WEST TAMPA GLASS COMPANY

SINCE 1934

2705 N. 35th STREET
TAMPA, FLORIDA 33605

SERIES WTG - 900
ALUMINUM CURTAIN WALL SYSTEM

SMI, LMI, "MISSILE-E"

OVERALL HVHZ SIZE LIMITATIONS (PER MULLION ASSEMBLY)
OUTSIDE OF HVHZ, PLEASE REFERENCE MULLION CHARTS.

900 SYSTEM	MAX TRIBUTARY SQ FT	MAX SPAN	MAX PSF
	SINGLE SPAN	SINGLE SPAN	SINGLE SPAN
JAMB - 906D	78.3	288"	130
VERT - 904/905	147	288"	130
EXP - 934/935	147	288"	130
JAMB SSG - 906D	53.3	224"	90
VERT SSG - 914BG/915BG	120	288"	130
EXP SSG - 934BG/935BG	74.7	224"	90

HEAD/SILL ANCHOR SCHEDULE (SEE ANCHOR SHEET 17 FOR SPACING)

ITEM	SUBSTRATE	DESCRIPTION	MAX RX
C2	*CONCRETE (3000 PSI MIN. w/ DeWALT ULTRACON, ITW TAPCON OR EQUAL)*	*(2) 5/16" X 2-3/4" HWH ANCHOR (3-3/4" SPACING)EA. SIDE OF MULLION, W/2-1/4" MIN.PENETRATION,3-1/8" MIN EDGE DISTANCE*	2,400 LBS
C3		*(3) 5/16" X 2-3/4" HWH ANCHOR (3-3/4" SPACING)EA. SIDE OF MULLION, W/2-1/4" MIN.PENETRATION,3-1/8" MIN EDGE DISTANCE*	3,600 LBS
C4		*(4) 5/16" X 2-3/4" HWH ANCHOR (3-3/4" SPACING)EA. SIDE OF MULLION, W/2-1/4" MIN.PENETRATION,3-1/8" MIN EDGE DISTANCE*	4,800 LBS
S2	*STEEL (10 GAUGE, MIN. w/ DeWALT DRIL-FLEX, SAE GRADE 5 MIN. OR EQUAL)*	*(2) 5/16"-24 X 1 1/2" HWH#4 SELF DRILLING SCREW EA. SIDE OF MULLION, 3" SPACING TYP.*	2,730 LBS
S3		*(3) 5/16"-24 X 1 1/2" HWH#4 SELF DRILLING SCREW EA. SIDE OF MULLION, 3" SPACING TYP.*	4,130 LBS
S3		*(4) 5/16"-24 X 1 1/2" HWH#4 SELF DRILLING SCREW EA. SIDE OF MULLION, 3" SPACING TYP.*	4,900 LBS

GENERAL NOTES

1. This product has been evaluated and is in compliance with the current Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details.
3. When used in the "HVHZ" this product complies with section 1626 of the Florida Building Code and does not require an impact resistant covering.
4. When used in areas outside of the "HVHZ" requiring wind borne debris protection this product complies with Section 1609.1.2 of the FBC and does not require an impact resistant covering. This product meets missile level "D", "E" and includes Wind Zone 4 as defined in ASTM E1996 and Section 1609.1.2 of the FBC and TAS 201, TAS 202, TAs 203.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed Engineer or registered Architect.
6. This product meets water infiltration requirements for "HVHZ". (Tested per ASTM E331 @ 20.0 PSF positive pressure), and tested Per AMA 501.1 @ 20.0 PSF positive pressure.
7. All steel in contact with aluminum to be painted or plated.
8. Product has passed AAMA 501.7 and AAMA 501.4., testing.
9. This system has been (Full Scale Arena) blast tested in compliance with: ASTM F-1642-04, GSA-TSO1-2003 and UFC 04-0101-01. (As limited by test reports)
10. This system has passed testing, per ICC - 500, and FEMA 361 with glass and SGP interlayer. (As limited by test reports)

WTG 900 SERIES

SCOTT WOLTERS, P.E. — Wolters Engineering, Inc. (COA #27198), 15211 97th Road N, West Palm Beach, FL 33412 — STATE OF FLORIDA PROFESSIONAL ENGINEER — JUN 20 2025

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WEST TAMPA GLASS CO.
SINCE 1934
2705 N. 35TH STREET
TAMPA, FLORIDA 33605
PH. 813-247-5528
FAX. 813-247-6468

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PLOT DATE: 2025-6-20

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SCOTT WOLTERS ENGINEERING, Inc.
Wolters Engineering, Inc.
15211 97th Road N.
West Palm Beach, FL 33412
(COA#EB27198)

STATE OF FLORIDA
PROFESSIONAL ENGINEER
SCOTT WOLTERS
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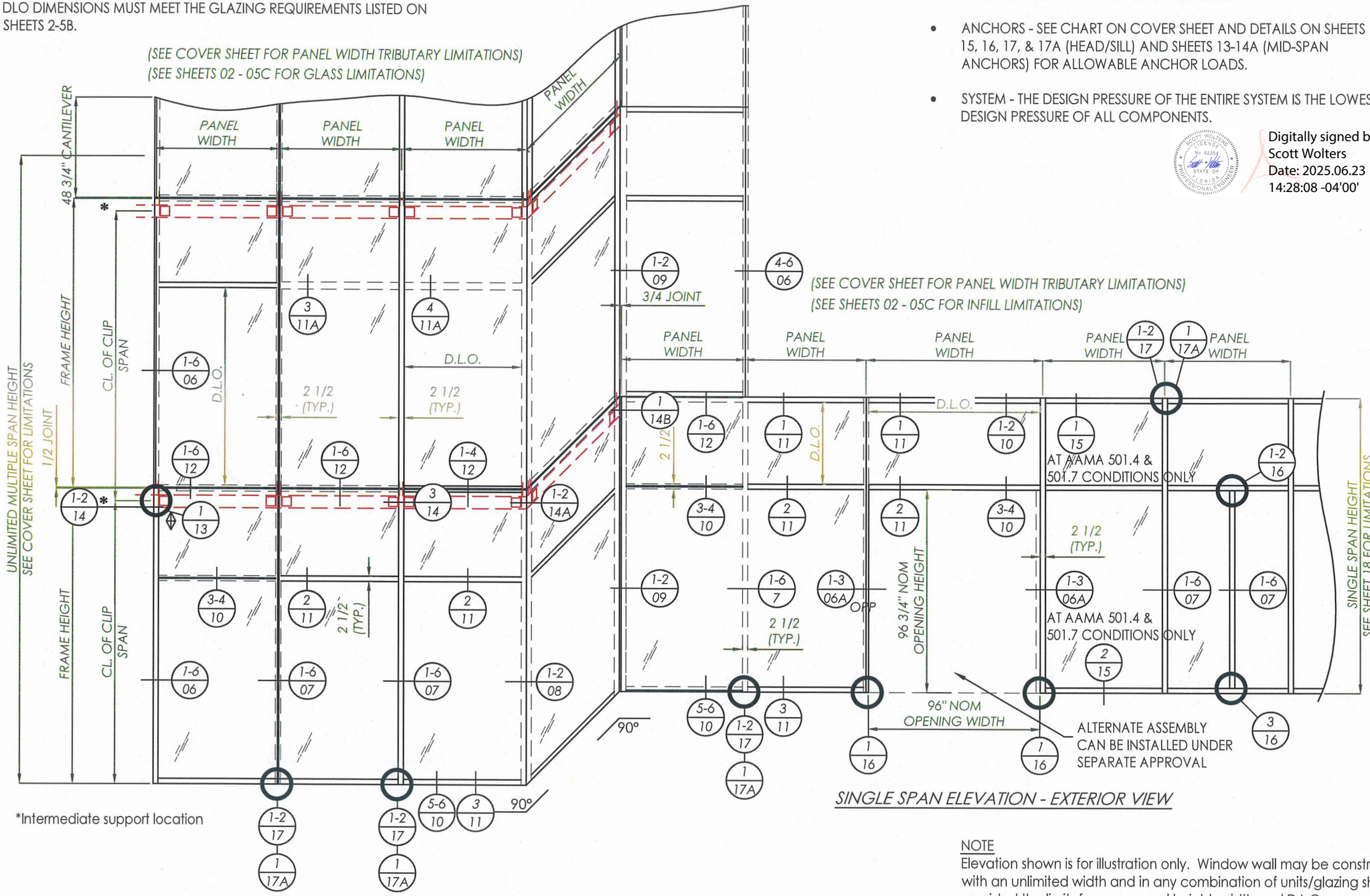
TWIN SPAN NOTES:

1. OVERALL FRAME HEIGHT IS UNLIMITED, PROVIDED ANCHOR-TO-ANCHOR SPAN HEIGHTS MEET THE REQUIREMENTS LISTED ON SHEET 18D.
2. OVERALL FRAME WIDTH IS ALSO UNLIMITED, PROVIDED THE MULLION TRIBUTARY AREA (ANCHOR-TO-ANCHOR SPAN x MULLION SPACING) MEETS THE REQUIREMENTS LISTED ON SHEET 18D.
3. DLO DIMENSIONS MUST MEET THE GLAZING REQUIREMENTS LISTED ON SHEETS 2-5B.

SYSTEM DESIGN PRESSURE

- GLASS & MCM INFILL - SEE CHARTS ON SHEETS 2-5B FOR ALLOWABLE GLASS & MCM INFILL TYPES, SIZES, AND DESIGN PRESSURE.
- MULLIONS - SEE CHARTS ON SHEETS 18-18D FOR MULLION TYPES, SIZES, REINFORCING, AND DESIGN PRESSURE.
- ANCHORS - SEE CHART ON COVER SHEET AND DETAILS ON SHEETS 15, 16, 17, & 17A (HEAD/SILL) AND SHEETS 13-14A (MID-SPAN ANCHORS) FOR ALLOWABLE ANCHOR LOADS.
- SYSTEM - THE DESIGN PRESSURE OF THE ENTIRE SYSTEM IS THE LOWEST DESIGN PRESSURE OF ALL COMPONENTS.

Digitally signed by Scott Wolters
Date: 2025.06.23 14:28:08 -04'00'



NOTE
Elevation shown is for illustration only. Window wall may be constructed with an unlimited width and in any combination of units/glazing shown provided the limits for max. panel height, width and D.L.O. are maintained.

WTG 900 SERIES

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Wolters Engineering, Inc.
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West Palm Beach, FL 33412
STATE OF FLORIDA PROFESSIONAL ENGINEER
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TWIN SPAN NOTES:

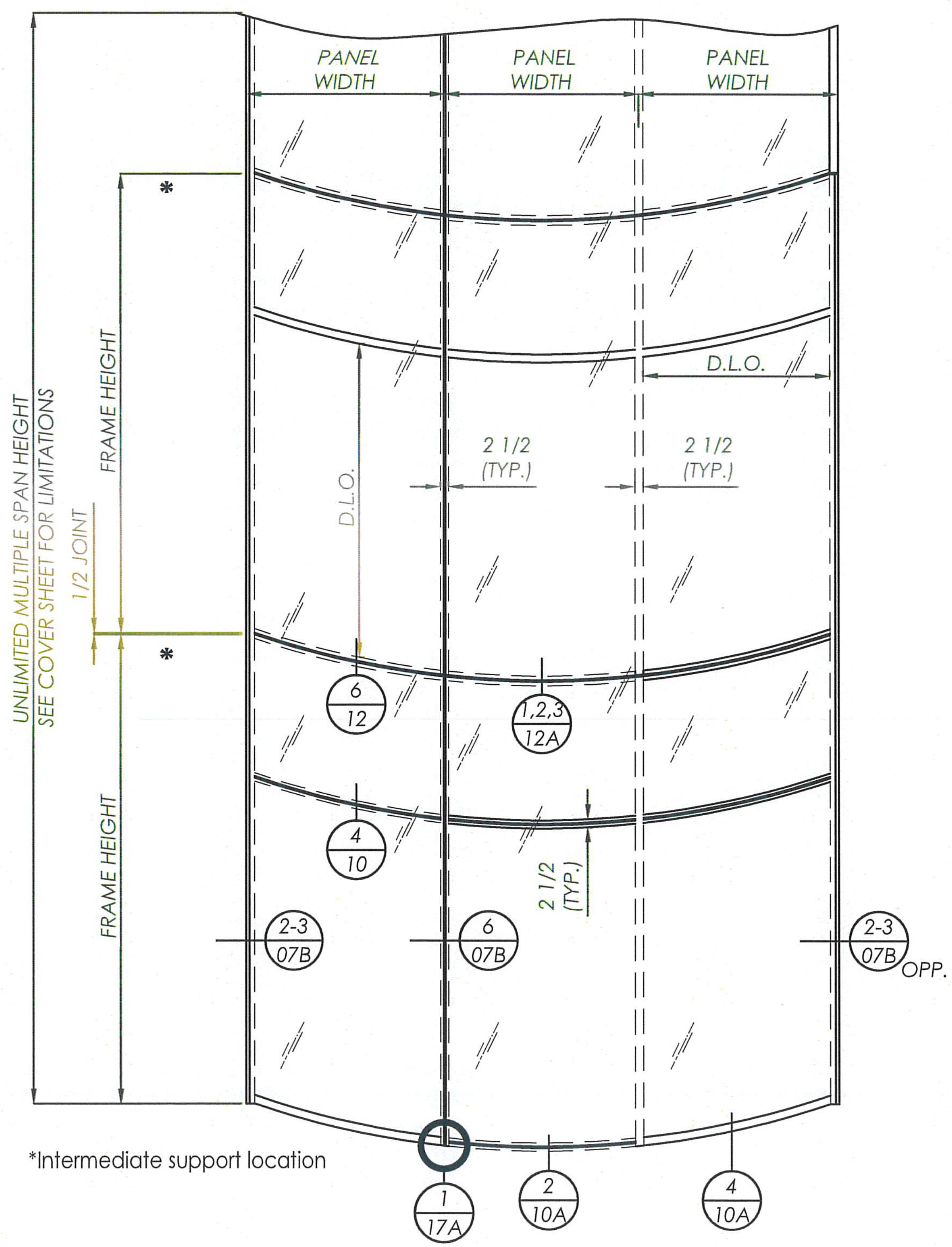
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2. OVERALL FRAME WIDTH IS ALSO UNLIMITED, PROVIDED THE MULLION TRIBUTARY AREA (ANCHOR-TO-ANCHOR SPAN x MULLION SPACING) MEETS THE REQUIREMENTS LISTED ON SHEET 18D.
3. DLO DIMENSIONS MUST MEET THE GLAZING REQUIREMENTS LISTED ON SHEETS 2-5B.

(SEE COVER SHEET FOR PANEL WIDTH TRIBUTARY LIMITATIONS)

(SEE SHEETS 02 - 05C FOR GLASS LIMITATIONS)

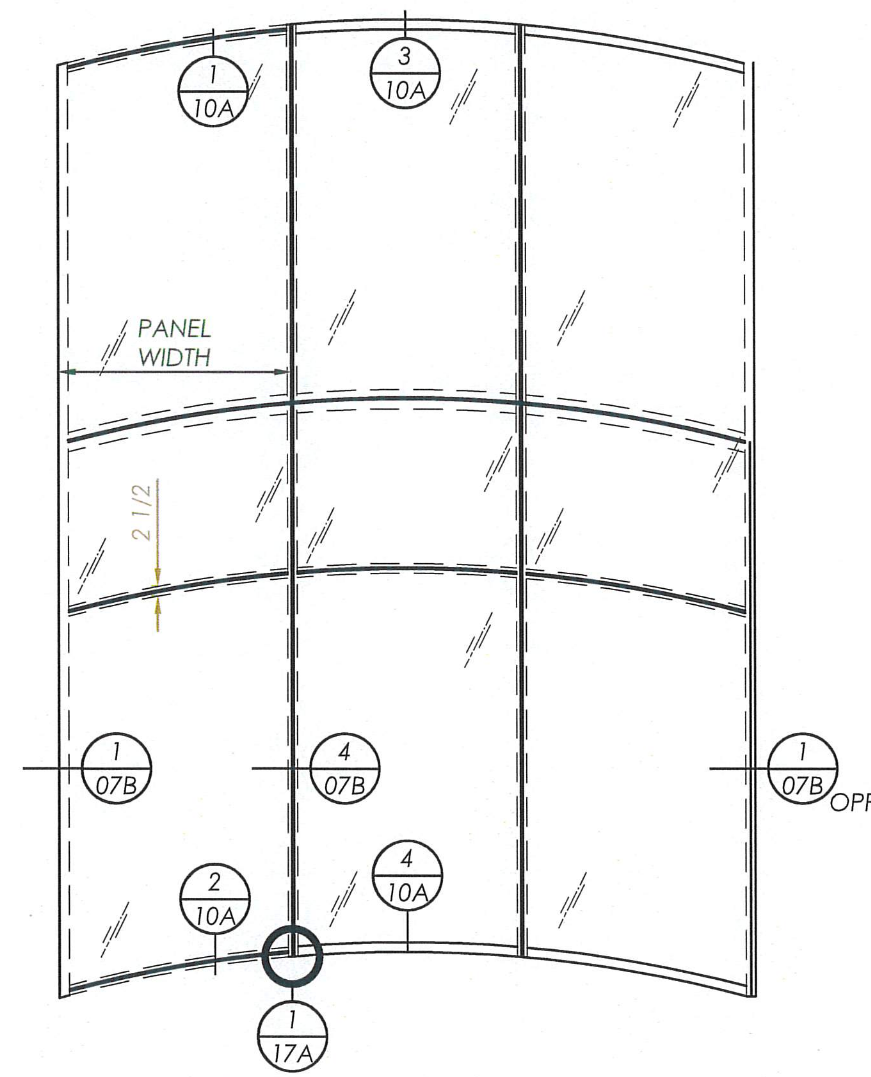
SYSTEM DESIGN PRESSURE

- GLASS & MCM - SEE CHARTS ON SHEETS 5A-5B FOR ALLOWABLE GLASS & MCM INFILL TYPES, SIZES, AND DESIGN PRESSURE.
- MULLIONS - SEE CHARTS ON SHEETS 18-18D FOR MULLION TYPES, SIZES, REINFORCING, AND DESIGN PRESSURE.
- ANCHORS - SEE CHART ON COVER SHEET AND DETAILS ON SHEETS 15, 16, 17, & 17A (HEAD/SILL) AND SHEETS 13-14A (MID-SPAN ANCHORS) FOR ALLOWABLE ANCHOR LOADS.
- SYSTEM - THE DESIGN PRESSURE OF THE ENTIRE SYSTEM IS THE LOWEST DESIGN PRESSURE OF ALL COMPONENTS.



*Intermediate support location

MULTI-SPAN RADIUS ELEVATION - EXTERIOR VIEW



MULTI-SPAN RADIUS ELEVATION - EXTERIOR VIEW

NOTE

Elevation shown is for illustration only. Window wall may be constructed with an unlimited width and in any combination of units/glazing shown provided the limits for max. panel height, width and D.L.O. are maintained. Horizontal details from previous sheet 01 are applicable.

WTG 900 SERIES

SCOTT WOLTERS ENGINEER, PE #62364, Wolters Engineering, Inc. (COA #27198) 15211 97th Road N, West Palm Beach, FL 33412 — STATE OF FLORIDA — PROFESSIONAL ENGINEER — JUN 20 2025

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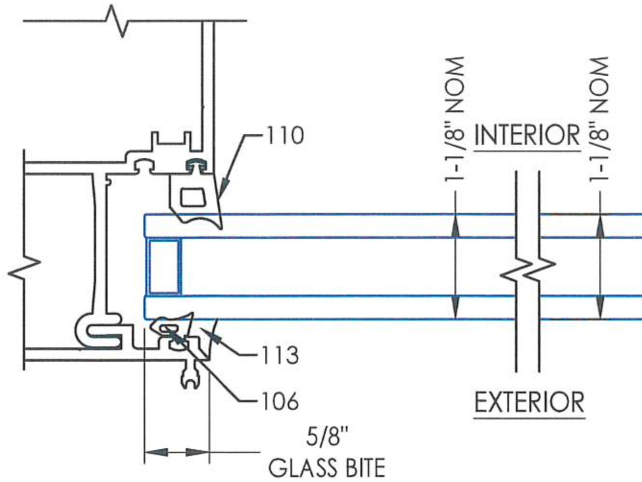
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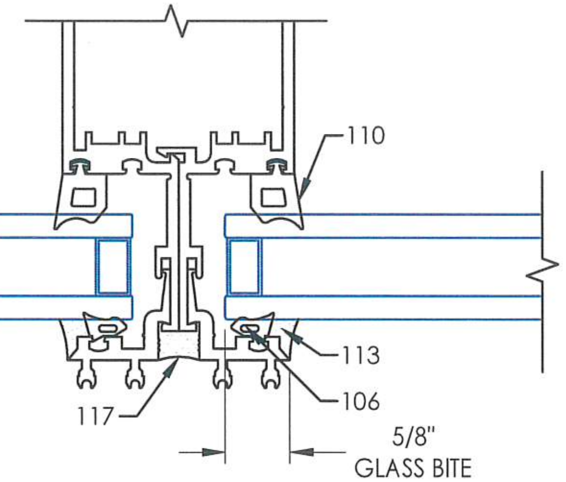
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NON-IMPACT DETAILS



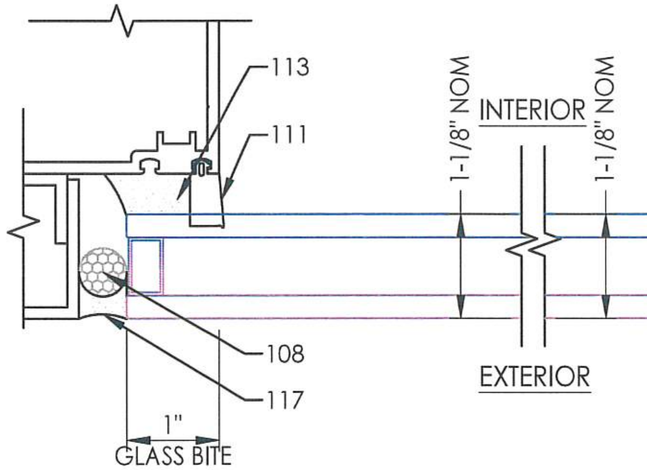
(A) ***PERIMETER GLAZING DETAIL - NON-IMPACT***
CAPTURED GLAZING



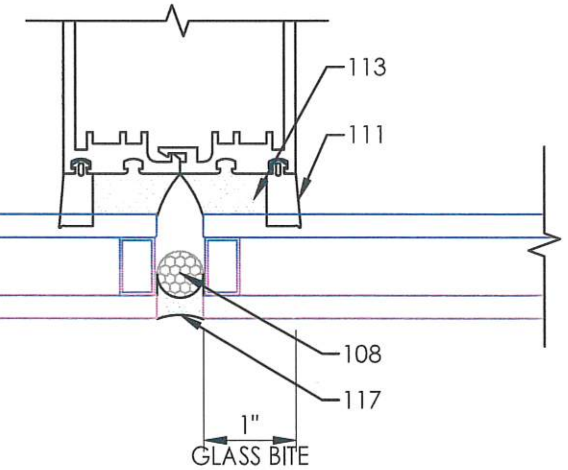
(A) ***INTERMEDIATE GLAZING DETAIL - NON-IMPACT***
CAPTURED GLAZING

GLASS TYPE G1
1/4" HS
5/8" AIR SPACE
1/4" HS

GLASS TYPE G1T
1/4" T
5/8" AIR SPACE
1/4" T



(B) ***PERIMETER GLAZING DETAIL - NON-IMPACT***
STRUCTURALLY SEALED GLAZING



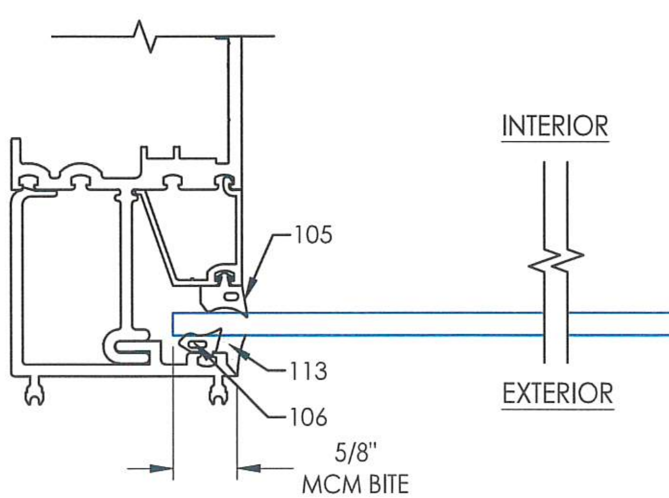
(B) ***INTERMEDIATE GLAZING DETAIL - NON-IMPACT***
STRUCTURALLY SEALED GLAZING

GLASS TYPE G2
1/4" HS
5/8" AIR SPACE
1/4" HS

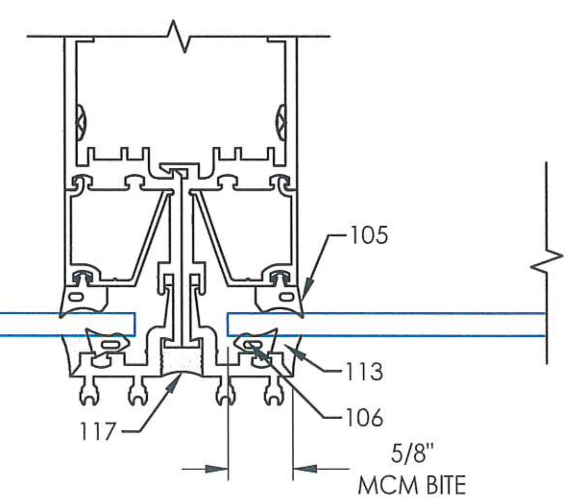
GLASS TYPE G2T
1/4" T
5/8" AIR SPACE
1/4" T

TYPE	MAX SQFT	MAX PSF	INTERLAYER
G1/G1T	NOTE 1	100	N/A
G2/G2T	NOTE 1	90	N/A
P1	12.77 SF	±125	N/A
P2	12.77 SF	±125	N/A

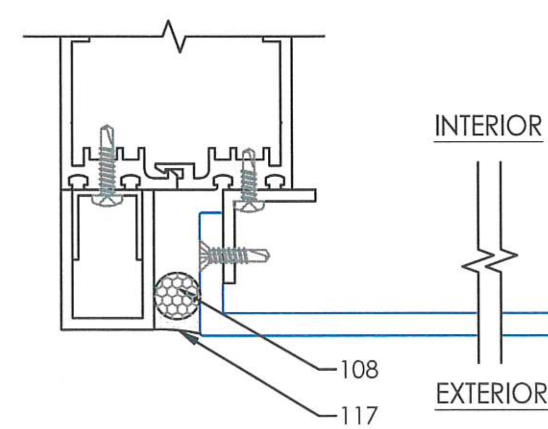
NOTE :
1. **FULL COMPARATIVE ANALYSIS ALLOWED FOR NI PRODUCTS. LIMITED BY ASTM E-1300.**
2. **ALUMINUM, STAINLESS STEEL OR THERMOPLASTIC SPACERS IN INSULATED UNITS, SILICONE TO BE PER GLASS MFG.**



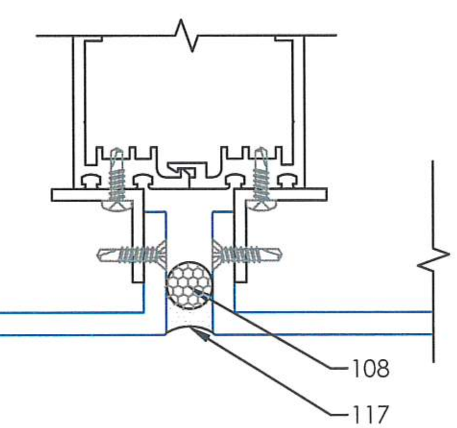
(C) ***PERIMETER GLAZING DETAIL - P1***
CAPTURED GLAZING



(C) ***INTERMEDIATE GLAZING DETAIL - P1***
CAPTURED GLAZING



(D) ***PERIMETER GLAZING DETAIL - P2***
STRUCTURALLY SEALED GLAZING



(D) ***INTERMEDIATE GLAZING DETAIL - P2***
STRUCTURALLY SEALED GLAZING

4mm PANEL:
- **0.5mm ALUMINUM**
- **3mm PE OR FR CORE**
- **0.5mm ALUMINUM**

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Scott Wolters, Engineer, FL PE #62354, Wolters Engineering, Inc. (COA #27198), 15211 97th Road N, West Palm Beach, FL 33412 — JUN 20 2025 — Professional Engineer, State of Florida

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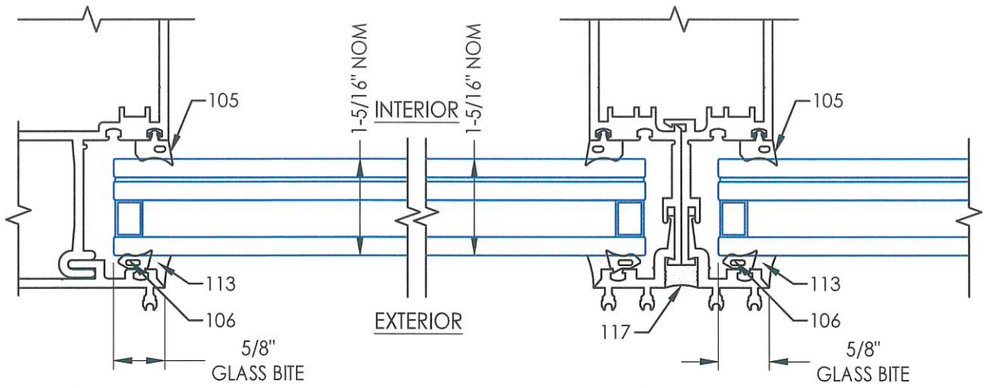
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SMALL MISSILE A DETAILS



E *PERIMETER GLAZING DETAIL - SMALL MISSILE-A*
CAPTURED GLAZING

E *INTERMEDIATE GLAZING DETAIL - SMALL MISSILE-A*
CAPTURED GLAZING

GLASS TYPE G3
1/4" HS
1/2" AIR SPACE
1/4" HS
0.060" PVB
1/4" HS

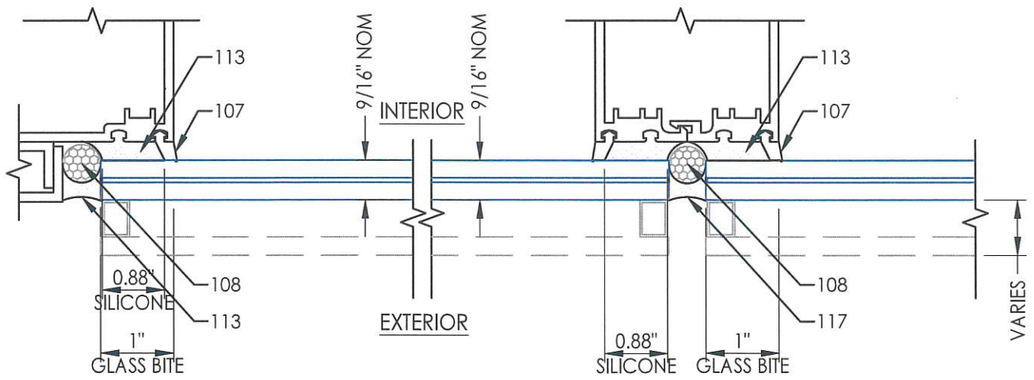
GLASS TYPE G3A
1/4" HS
1/2" AIR SPACE
1/4" HS
0.035" SGP
1/4" HS

GLASS TYPE G3T
1/4" T
1/2" AIR SPACE
1/4" HS
0.060" PVB
1/4" HS

GLASS TYPE G3A-T
1/4" T
1/2" AIR SPACE
1/4" HS
0.035" SGP
1/4" HS

TYPE	MAX SQ FT	MAX PSF	INTERLAYER
G3A/G3A-T	54.69 SF	±90	0.035" SGP
G3/G3T	54.69 SF	±90	0.060" PVB
G3/G3T	39.95 SF	±110	0.060" PVB
G4	39.95 SF	±90	0.060" PVB
G4AG4A-T	50.9 SF	±90	0.060" PVB
G5	39.95 SF	±70	0.060" UVEKOL
P3	12.77 SF	±125	NA

NOTE :
1. ALUMINUM , STAINLESS STEEL OR THERMOPLASTIC SPACERS IN INSULATED UNITS, SILICONE TO BE PER GLASS MFG.
2. SHUTTERS ARE REQUIRED FOR USE BELOW 30' IN HVHZ ZONE
3. STRESS ON THE SSG SILICONE MAY NOT EXCEED 20 PSI

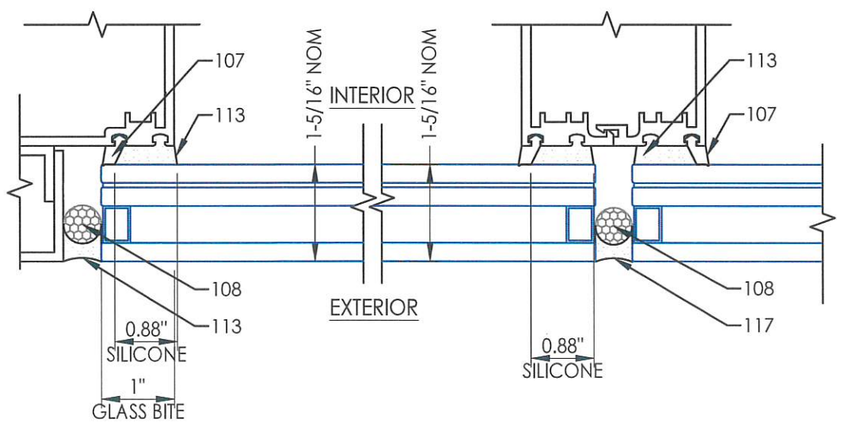


F *PERIMETER GLAZING DETAIL - SMALL MISSILE-A*
STRUCTURALLY SEALED GLAZING

F *INTERMEDIATE GLAZING DETAIL - SMALL MISSILE-A*
STRUCTURALLY SEALED GLAZING

GLASS TYPE G4
1/4" HS
0.060" PVB
1/4" HS

GLASS TYPE G5
1/4" HS
0.060" UVEKOL
1/4" HS

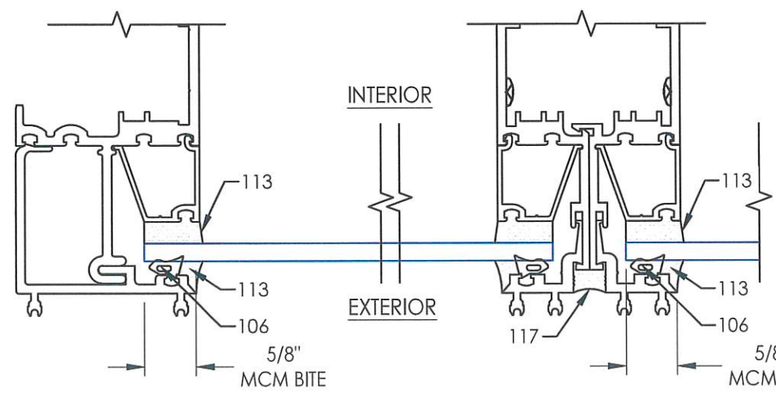


G *PERIMETER GLAZING DETAIL - SMALL MISSILE-A*
STRUCTURALLY SEALED GLAZING

G *INTERMEDIATE GLAZING DETAIL - SMALL MISSILE-A*
STRUCTURALLY SEALED GLAZING

GLASS TYPE G4A
1/4" HS
1/2" AIR SPACE
1/4" HS
0.060" SGP
1/4" HS

GLASS TYPE G4A-T
1/4" T
1/2" AIR SPACE
1/4" HS
0.060" SGP
1/4" HS



4mm PANEL:
- 0.5mm ALUMINUM
- 3mm PE OR FR CORE
- 0.5mm ALUMINUM

H *PERIMETER GLAZING DETAIL - P3*
CAPTURED GLAZING

H *INTERMEDIATE GLAZING DETAIL - P3*
CAPTURED GLAZING

WTG 900 SERIES

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(COA #27198)
15211 92th Road N.
West Palm Beach,
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PROFESSIONAL ENGINEER

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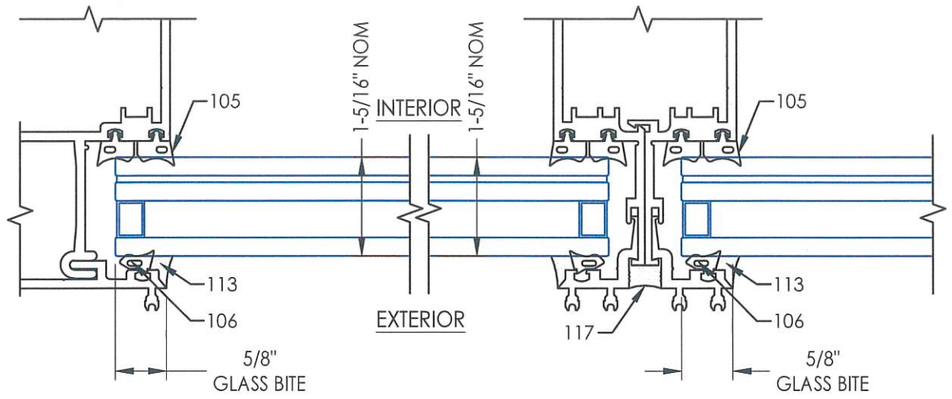
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LARGE MISSILE D DETAILS



1 *PERIMETER GLAZING DETAIL - LARGE MISSILE-D*
CAPTURED GLAZING

1 *INTERMEDIATE GLAZING DETAIL - LARGE MISSILE-D*
CAPTURED GLAZING

GLASS TYPE G6
1/4" HS
1/2" AIR SPACE
1/4" HS
0.075" VANCEVA
1/4" HS

GLASS TYPE G6T
1/4" T
1/2" AIR SPACE
1/4" HS
0.075" VANCEVA
1/4" HS

GLASS TYPE G7
1/4" HS
1/2" AIR SPACE
1/4" HS
0.075" VANCEVA
1/4" HS

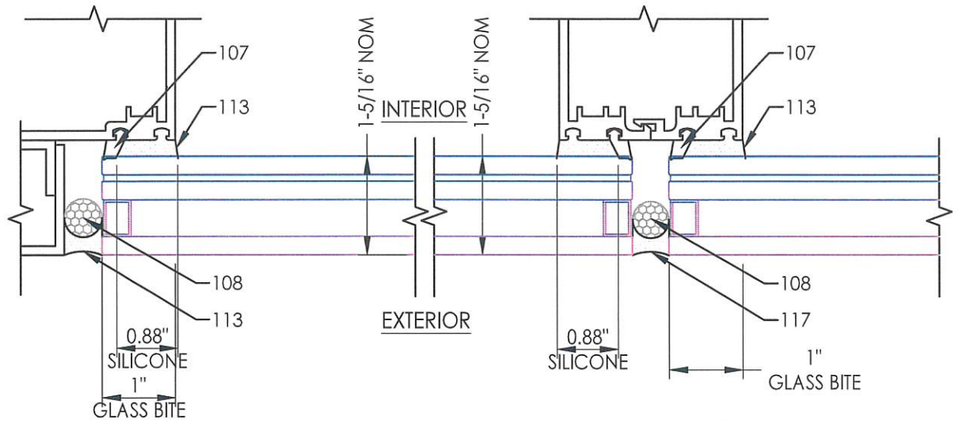
GLASS TYPE G7T
1/4" T
1/2" AIR SPACE
1/4" HS
0.075" VANCEVA
1/4" HS

GLASS TYPE G8
1/4" HS
1/2" AIR SPACE
1/4" HS
0.090" SGP
1/4" HS

GLASS TYPE G8T
1/4" T
1/2" AIR SPACE
1/4" HS
0.090" SGP
1/4" HS

TYPE	MAX SQ FT	MAX PSF	INTERLAYER
G6/G6T	40.12 SF	±90	0.075" SAFLEX STORM
G7/G7T	39.95 SF	±90	0.075" SAFLEX STORM
G8/G8T	54.69 SF	±90	0.090" SGP
G8A/G8A-T	65 SF	±60	0.090" SGP
P3	12.77 SF	±125	NA
P4	53.93 SF	±50/-60	NA

NOTE :
1. ALUMINUM, STAINLESS STEEL OR THERMOPLASTIC SPACERS IN INSULATED UNITS, SILICONE TO BE PER GLASS MFG.
2. INSULATED GLASS WITH HEAT STRENGTHENED OUTER LITES IS LIMITED TO 30' IN THE HVHZ.
3. 0.075" VANCEVA IS EQUAL TO 0.075" SAFLEX STORM. ALL GLASS MAKE-UPS WITH VANCEVA CAN SUBSTITUTE WITH SAFLEX.
4. STRESS ON THE SSG SILICONE MAY NOT EXCEED 20 PSI.



J *PERIMETER GLAZING DETAIL - LARGE MISSILE-D*
STRUCTURALLY SEALED GLAZING

J *INTERMEDIATE GLAZING DETAIL - LARGE MISSILE-D*
STRUCTURALLY SEALED GLAZING

GLASS TYPE G6
1/4" HS
1/2" AIR SPACE
1/4" HS
0.075" VANCEVA
1/4" HS

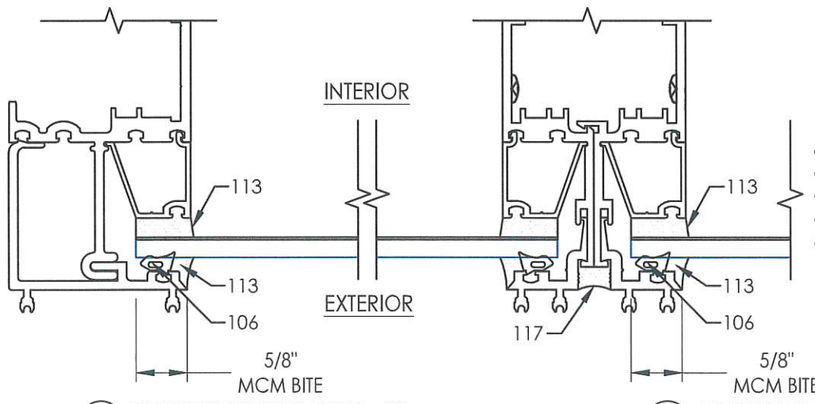
GLASS TYPE G6T
1/4" T
1/2" AIR SPACE
1/4" HS
0.075" VANCEVA
1/4" HS

GLASS TYPE G7
1/4" HS
1/2" AIR SPACE
1/4" HS
0.075" VANCEVA
1/4" HS

GLASS TYPE G7T
1/4" T
1/2" AIR SPACE
1/4" HS
0.075" VANCEVA
1/4" HS

GLASS TYPE G8
1/4" HS
1/2" AIR SPACE
1/4" HS
0.090" SGP
1/4" HS

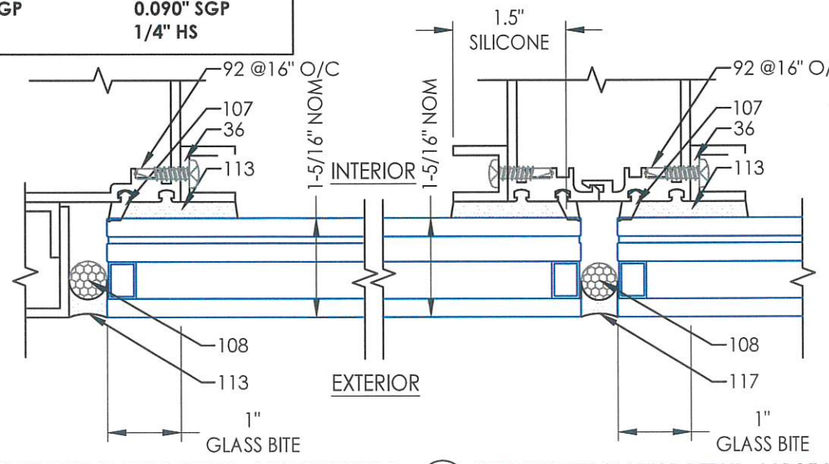
GLASS TYPE G8T
1/4" T
1/2" AIR SPACE
1/4" HS
0.090" SGP
1/4" HS



4mm PANEL:
- 26 GA. GALVALUME
- 0.5mm ALUMINUM
- 3mm PE OR FR CORE
- 0.5mm ALUMINUM

K *PERIMETER GLAZING DETAIL - P3*
CAPTURED GLAZING

K *INTERMEDIATE GLAZING DETAIL - P3*
CAPTURED GLAZING



GLASS TYPE G8A
1/4" HS
1/2" AIR SPACE
1/4" HS
0.090" SGP
1/4" HS

GLASS TYPE G8A-T
1/4" HS
1/2" AIR SPACE
1/4" HS
0.090" SGP
1/4" HS

L *PERIMETER GLAZING DETAIL - LARGE MISSILE-D*
STRUCTURALLY SEALED GLAZING

L *INTERMEDIATE GLAZING DETAIL - LARGE MISSILE-D*
STRUCTURALLY SEALED GLAZING

WTG 900 SERIES

SCOTT WALTERS
ENGINEER
SCOTT WALTERS
Walters Engineering, Inc.
(COA #27198)
15211 97th Road N,
West Palm Beach,
FL 33412
STATE OF
PROFESSIONAL ENGINEER
JUN 20 2025
FLORIDA

REVISION	DATE	REV. #
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2705 N. 35TH STREET
TAMPA, FLORIDA 33605
PH. 813-247-5528
FAX. 813-247-6468
WEST TAMPA GLASS CO.
SINCE 1934

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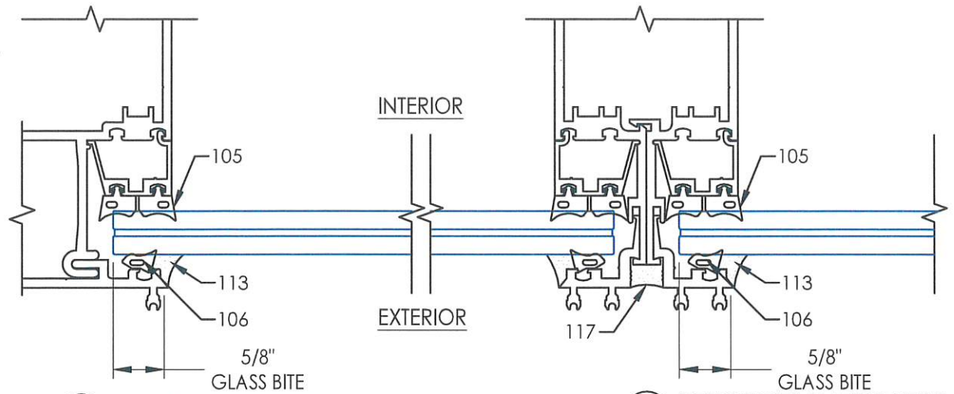
DRAWN BY: KK

SHT: 04 | 0

LAST SAVE: 2025-6-20 KKHAYKHAM

PLOT DATE: 2025-6-20

LARGE MISSILE D DETAILS

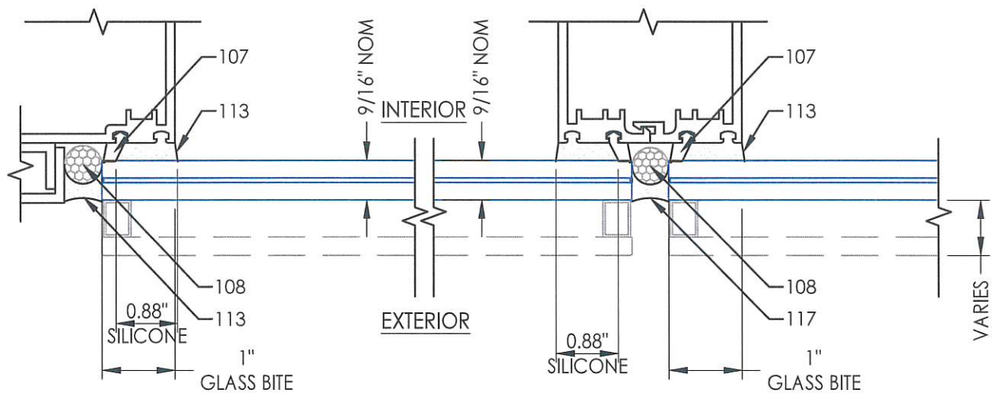


M **PERIMETER GLAZING DETAIL - LARGE MISSILE-D**
CAPTURED GLAZING

M **INTERMEDIATE GLAZING DETAIL - LARGE MISSILE-D**
CAPTURED GLAZING

GLASS TYPE G9
1/4" HS
0.090" SGP
1/4" HS

GLASS TYPE G10
1/4" HS
0.100" UVEKOL
1/4" HS



N **PERIMETER GLAZING DETAIL - LARGE MISSILE-D**
STRUCTURALLY SEALED GLAZING

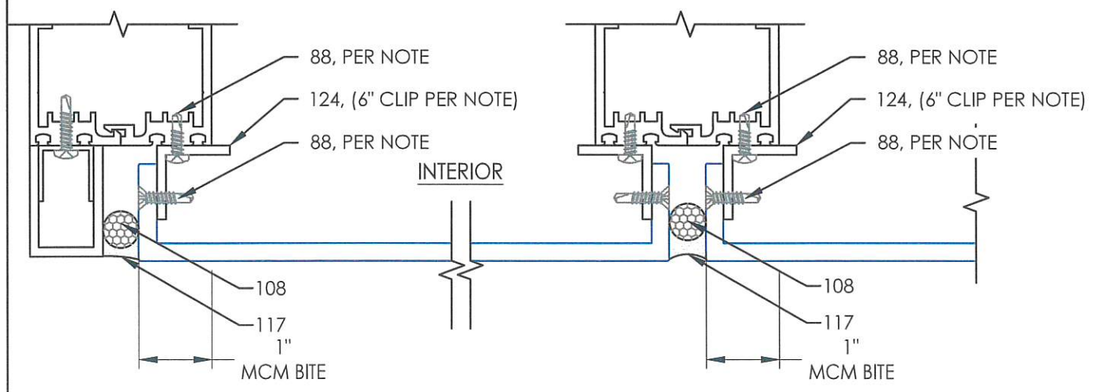
N **INTERMEDIATE GLAZING DETAIL - LARGE MISSILE-D**
STRUCTURALLY SEALED GLAZING

GLASS TYPE G9
1/4" HS
0.090" SGP
1/4" HS

GLASS TYPE G10
1/4" HS
0.100" UVEKOL
1/4" HS

TYPE	MAX SQ FT	MAX PSF	INTERLAYER
G9	40.12 SF	±90	0.090" SGP
G10	39.95 SF	±90	0.100" UVEKOL
P4	53.93 SF MAX WIDTH 60"	+50/-60	NA

NOTE :
1. STRESS ON THE SSG SILICONE MAY NOT EXCEED 20 PSI.



O **PERIMETER GLAZING DETAIL - P4**
STRUCTURALLY SEALED GLAZING

O **INTERMEDIATE GLAZING DETAIL - P4**
STRUCTURALLY SEALED GLAZING

4mm PANEL:
- **26 GA. GALVALUME**
- **0.5mm ALUMINUM**
- **3mm PE OR FR CORE**
- **0.5mm ALUMINUM**

PANEL ATTACHMENT: 6" CLIP OF 1" X 1" X 1/8" ALUMINUM ANGLE AT 30" O/C OR LESS. START 6" FROM CORNER OF PANEL. EACH CLIP ATTACHED WITH #12 PH TEK SCREW - (2) AT PANEL AND (2) AT MULLION.

WTG 900 SERIES

SCOTT WOLTERS ENGINEERING, Inc. (COA #27198) 15211 97th Road N, West Palm Beach, FL 33412 STATE OF FLORIDA PROFESSIONAL ENGINEER
JUN 20 2025

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WEST TAMPA GLASS CO.
SINCE 1934
2705 N. 35TH STREET
TAMPA, FLORIDA 33605
PH. 813-247-5528
FAX. 813-247-6468

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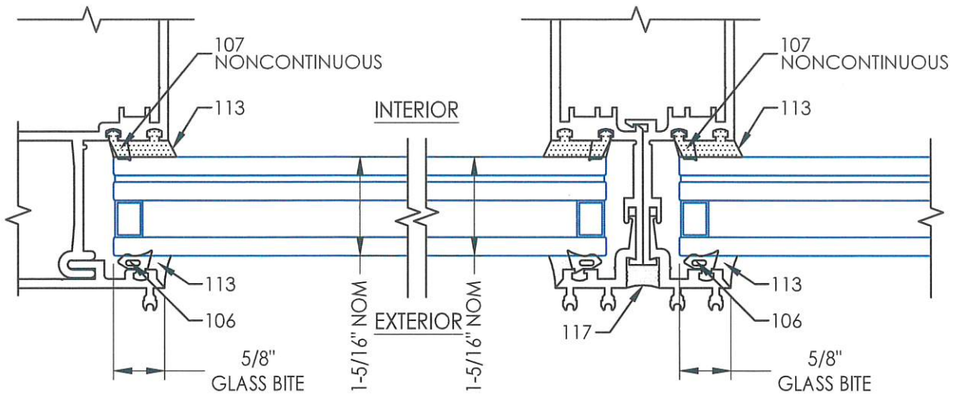
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LAST SAVE: 2025-6-20 KKHAYKHAM

PLOT DATE: 2025-6-20

MISSILE E DETAILS



GLASS TYPE G11
1/4" HS
1/2" AIR SPACE
1/4" HS
0.18" SGP
1/4" HS

GLASS TYPE G13
1/4" HS
1/2" AIR SPACE
1/4" HS
0.15" VSO2
1/4" HS

GLASS TYPE G11T
1/4" T
1/2" AIR SPACE
1/4" HS
0.18" SGP
1/4" HS

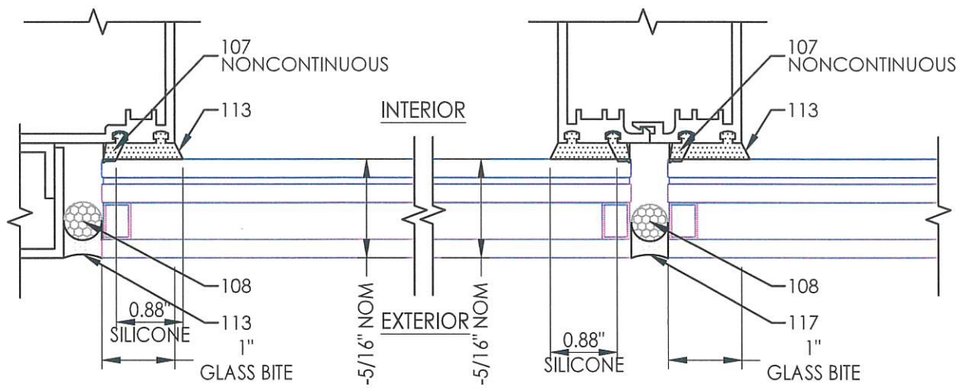
GLASS TYPE G13T
1/4" T
1/2" AIR SPACE
1/4" HS
0.15" VSO2
1/4" HS

(P) ***PERIMETER GLAZING DETAIL - LARGE MISSILE-E***
CAPTURED GLAZING

(P) ***INTERMEDIATE GLAZING DETAIL - LARGE MISSILE-E***
CAPTURED GLAZING

TYPE	MAX SQ FT	MAX PSF	INTERLAYER
G11/G11T	55.62 SF	±90	0.18" SGP
G12	39.95 SF	±90	0.18" SGP
G13/G13T	40.00 SF	±90	0.15" VSO2

NOTE :
1. ALUMINUM, STAINLESS STEEL OR THERMOPLASTIC SPACERS IN INSULATED UNITS, SILICONE TO BE PER GLASS MFG.
2. STRESS ON THE SSG SILICONE MAY NOT EXCEED 20 PSI.



GLASS TYPE G11
1/4" HS
1/2" AIR SPACE
1/4" HS
0.18" SGP
1/4" HS

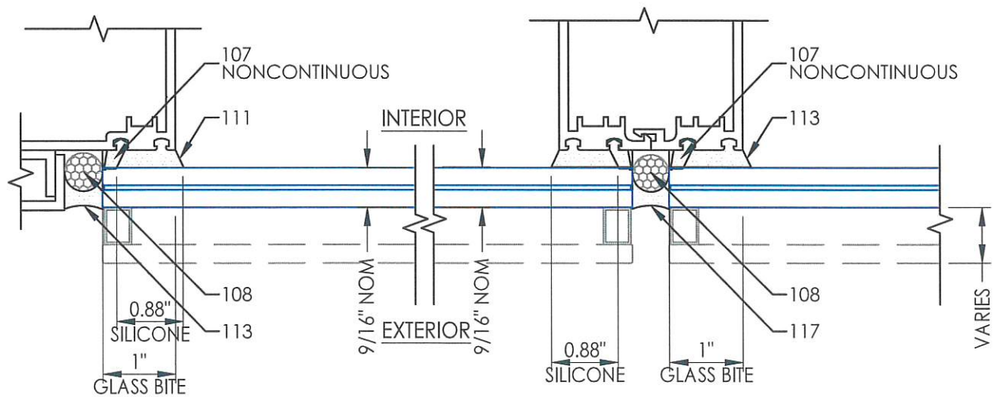
GLASS TYPE G13
1/4" HS
1/2" AIR SPACE
1/4" HS
0.15" VSO2
1/4" HS

GLASS TYPE G11T
1/4" T
1/2" AIR SPACE
1/4" HS
0.18" SGP
1/4" HS

GLASS TYPE G13T
1/4" T
1/2" AIR SPACE
1/4" HS
0.15" VSO2
1/4" HS

(Q) ***PERIMETER GLAZING DETAIL - LARGE MISSILE-E***
STRUCTURALLY SEALED GLAZING

(Q) ***INTERMEDIATE GLAZING DETAIL - LARGE MISSILE-E***
STRUCTURALLY SEALED GLAZING



GLASS TYPE G12
1/4" HS
0.18" SGP
1/4" HS

(R) ***PERIMETER GLAZING DETAIL - LARGE MISSILE-E***
STRUCTURALLY SEALED GLAZING

(R) ***PERIMETER GLAZING DETAIL - LARGE MISSILE-E***
STRUCTURALLY SEALED GLAZING

WTG 900 SERIES

SCOTT WOLTERS ENGINEERING, inc.
Wolters Engineering, Inc.
(COA #27198)
15211 92th Road N.
West Palm Beach, FL 33412
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JUN 20 2025

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WEST TAMPA GLASS CO.
SINCE 1934
2705 N. 35TH STREET
TAMPA, FLORIDA 33605
PH. 813-247-5528
FAX. 813-247-6468

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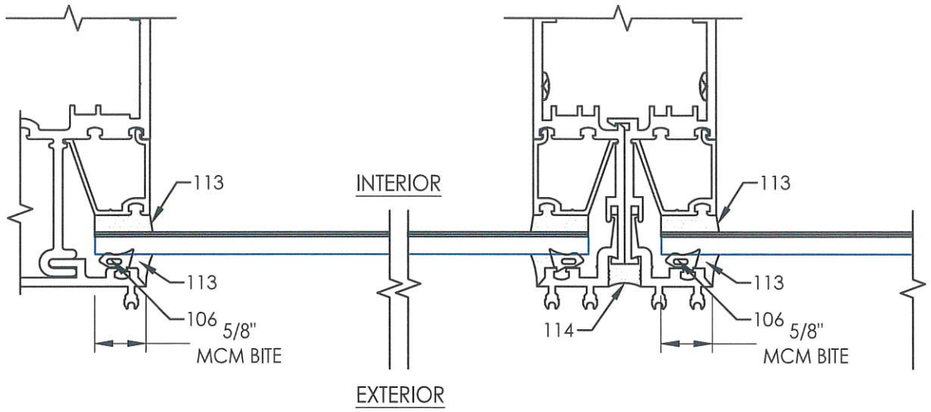
DRAWN BY: KK
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LAST SAVE: 2025-6-20 KKHAYKHAM
PLOT DATE: 2025-6-20

MISSILE E DETAILS

TYPE	MAX SQ FT	MAX PSF	INTERLAYER
G11/G11T	55.62 SF	±90	0.18" SGP
G12	39.95 SF	±90	0.18" SGP
P5	14.28 SF	±65	NA
P6	79.86 SF MAX WIDTH 60"	±100	NA
P7	95.04 SF MAX WIDTH 60"	±100	NA

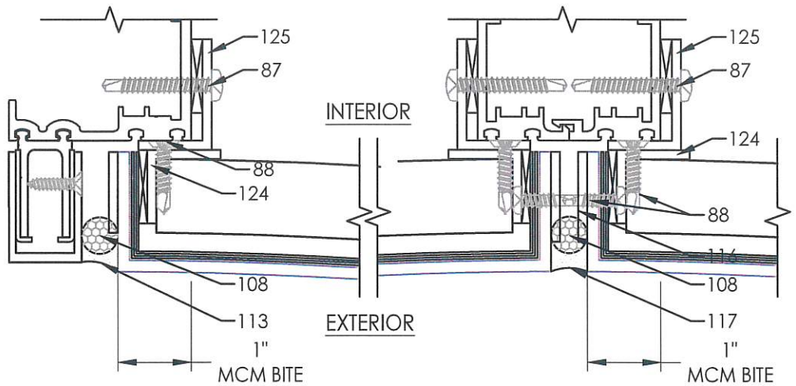
NOTE :
1. **ALUMINUM, STAINLESS STEEL OR THERMOPLASTIC SPACERS IN INSULATED UNITS, SILICONE TO BE PER GLASS MFG.**



S *PERIMETER GLAZING DETAIL - P5*
CAPTURED GLAZING

S *INTERMEDIATE GLAZING DETAIL - P5*
CAPTURED GLAZING

4mm PANEL:
- **(2) 26 GA. GALVALUME**
- **0.5mm ALUMINUM**
- **3mm PE OR FR CORE**
- **0.5mm ALUMINUM**

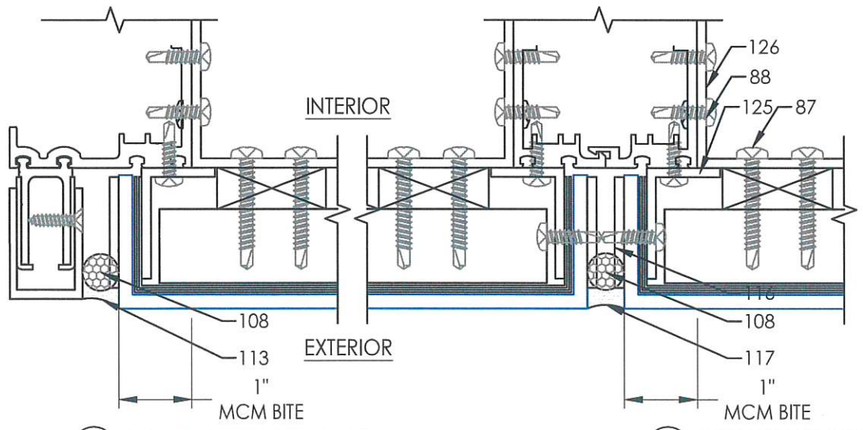


T *PERIMETER INFILL DETAIL - P6*
MCM INFILL GLAZING

T *INTERMEDIATE INFILL DETAIL - P6*
MCM INFILL GLAZING

4mm PANEL:
- **(2) 26 GA. GALVALUME**
- **0.5mm ALUMINUM**
- **3mm PE OR FR CORE**
- **0.5mm ALUMINUM**
- **P6 = RADIUS MCM**
  CONVEX RADIUS RANGE = 30" - 132"
  CONCAVE RADIUS RANGE = 60"
- **REINFORCEMENT, FASTENING & CONFIGURATION PER SHEET 05C**

PANEL ATTACHMENT: ITEM 121 IS 4" CLIP OF 1" X 1 1/2" X 1/8" ALUMINUM ANGLE AT 16" O/C OR LESS. START 4" FROM CORNER OF PANEL. EACH CLIP ATTACHED WITH (2) # 12 FH TEK SCREWS INTO ITEM 122 AND (1) 1/4" X 20 DEWALT DRIL-FLEX INTO MULLION. ITEM 122 AND ITEM 114 ARE FULL LENGTH OF PANEL, ATTACHED WITH #12 TEK SCREWS AT 16" O/C OR LESS.



U *PERIMETER INFILL DETAIL - P7*
MCM INFILL GLAZING

U *INTERMEDIATE INFILL DETAIL - P7*
MCM GLAZING

4mm PANEL:
- **(2) 26 GA. GALVALUME**
- **0.5mm ALUMINUM**
- **3mm PE OR FR CORE**
- **0.5mm ALUMINUM**
- **REINFORCEMENT, FASTENING & CONFIGURATION PER SHEET 05C**

PANEL ATTACHMENT: ITEM 121 AND ITEM 114 ARE FULL LENGTH OF PANEL, ATTACHED WITH #12 PH TEK SCREWS AT 16" O/C OR LESS. ITEM 123 IS 2" CLIP OF 2" X 2" X 1/8" ALUMINUM ANGLE AT EACH WTG-217 STIFFENER. EACH CLIP ATTACHED WITH (2) # 12 PH TEK SCREWS INTO WTG-217 AND (2) #12 TEK SCREWS INTO MULLION.

WTG 900 SERIES

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Scott Wolters, P.E. #62554
Wolters Engineering, Inc.
(COA #27198)
15211 97th Road N.
West Palm Beach, FL 33412
STATE OF FLORIDA
PROFESSIONAL ENGINEER
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WEST TAMPA GLASS CO.
SINCE 1934
2705 N. 35TH STREET
TAMPA, FLORIDA 33605
PH. 813-247-5528
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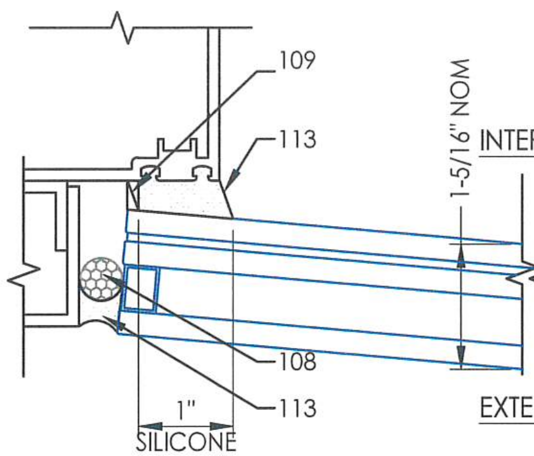
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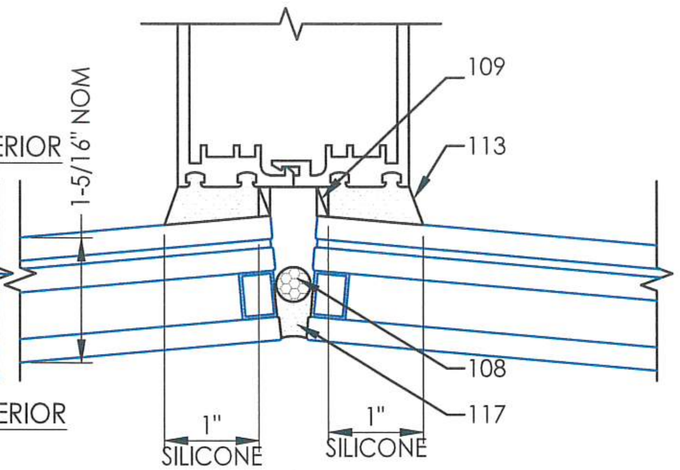
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PLOT DATE: 2025-6-20

MISSILE E DETAILS



(V) ***PERIMETER GLAZING DETAIL - LARGE MISSILE-E***
STRUCTURALLY SEALED GLAZING



(V) ***PERIMETER GLAZING DETAIL - LARGE MISSILE-E***
STRUCTURALLY SEALED GLAZING

GLASS TYPE G14

1/4" T
1/2" AIR SPACE
1/4" HS
0.18" SGP
1/4" HS

GLASS TYPE G14A

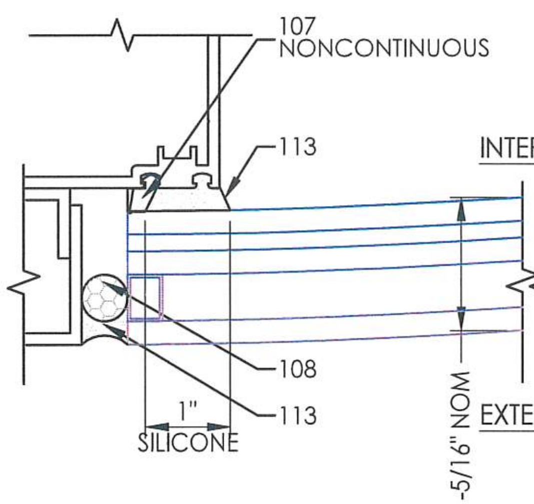
1/4" T
1/2" AIR SPACE
1/4" HS
0.15" VSO2
1/4" HS

G14 & G14A = SEGMENTED GLAZING RANGE 85° - 95°

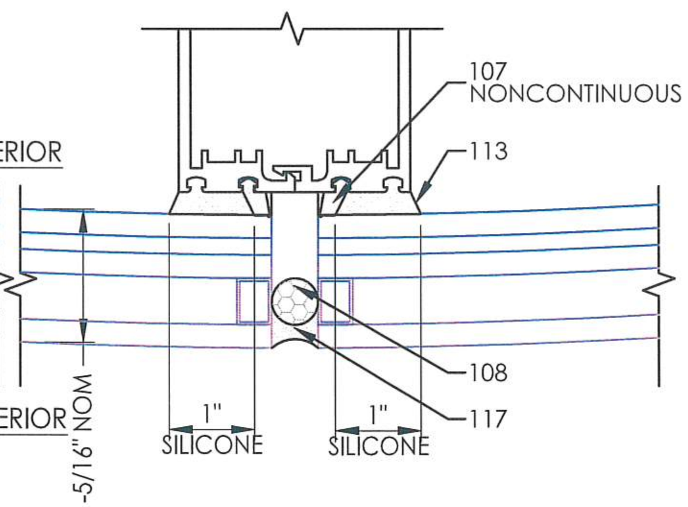
TYPE	MAX SQ FT	MAX PSF	INTERLAYER
G14	55.9 SF	±75	0.18" SGP
G14A	55.9 SF	±75	0.15" VSO2
G15	58.05 SF	±90	0.18" SGP
G15A	58.05 SF	±90	0.15" VSO2
G16	41.67 SF	±60	0.18" SGP
G16A	41.67 SF	±60	0.15" VSO2

NOTE :

1. **ALUMINUM, STAINLESS STEEL OR THERMOPLASTIC SPACERS IN INSULATED UNITS, SILICONE TO BE PER GLASS MFG.**
2. **STRESS ON SSG SILICONE NOT TO EXCEED 20 PSI.**



(W) ***PERIMETER GLAZING DETAIL - P5***
CAPTURED GLAZING



(W) ***INTERMEDIATE GLAZING DETAIL - P5***
CAPTURED GLAZING

GLASS TYPE G15

1/4" T
1/2" AIR SPACE
1/4" HS
0.18" SGP
1/4" HS

GLASS TYPE G15A

1/4" T
1/2" AIR SPACE
1/4" HS
0.15" VSO2
1/4" HS

G15 & G15A = RADIUS GLAZING CONVEX RADIUS 60"

GLASS TYPE G16

1/4" T
1/2" AIR SPACE
1/4" HS
0.18" SGP
1/4" HS

GLASS TYPE G16A

1/4" T
1/2" AIR SPACE
1/4" HS
0.15" VSO2
1/4" HS

G16 & G16A = RADIUS GLAZING CONVEX RADIUS RANGE - 60" - 140"

WTG 900 SERIES

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SCOTT WOLTERS, PROFESSIONAL ENGINEER, STATE OF FLORIDA
Wolters Engineering, Inc.
(COA #27198)
15211 97th Road N,
West Palm Beach,
FL 33412
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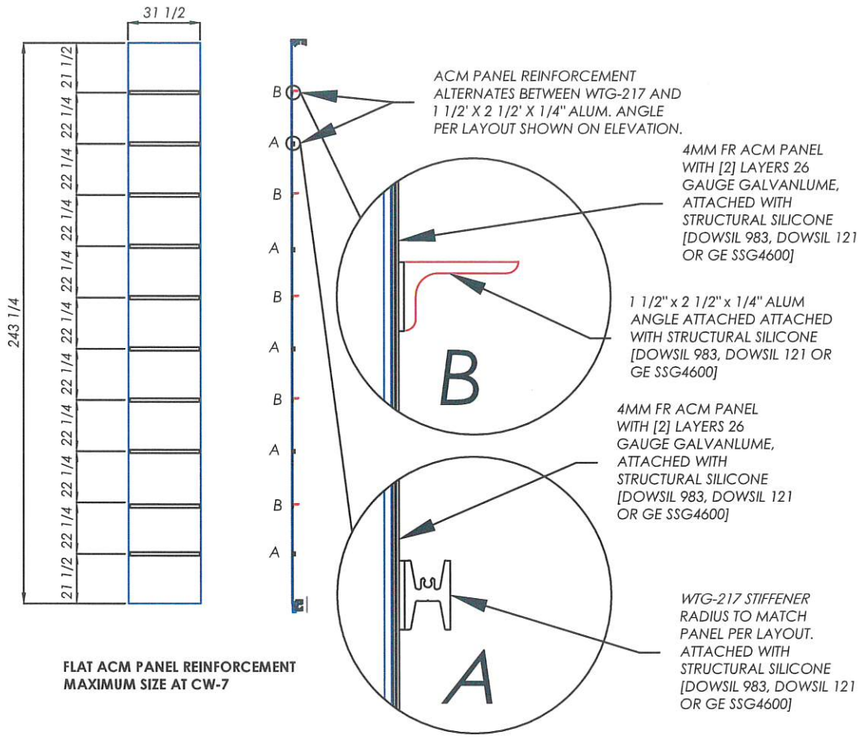
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SINCE 1934
2705 N. 35TH STREET
TAMPA, FLORIDA 33605
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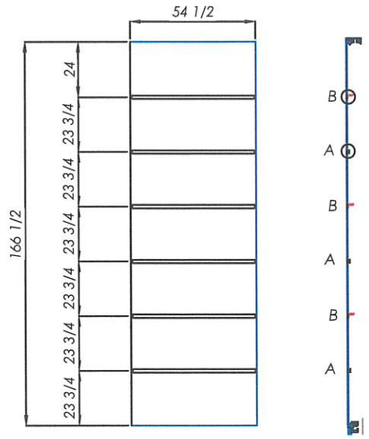
DRAWN BY: KK

SHT: 05B (0)

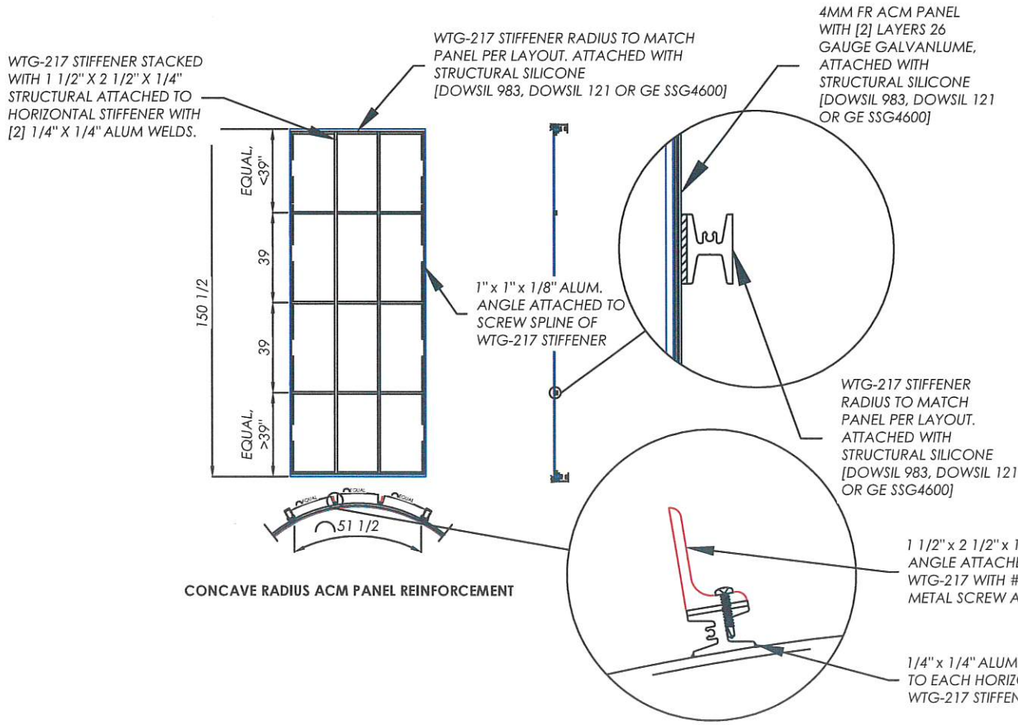
PLOT DATE: 2025-6-20



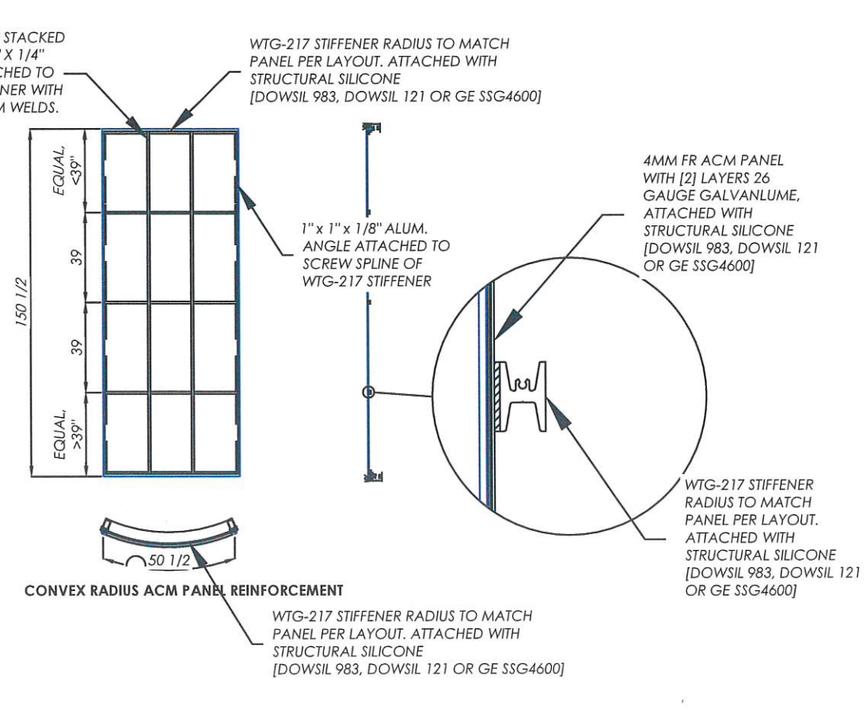
FLAT ACM PANEL REINFORCEMENT MAXIMUM SIZE AT CW-7



FLAT ACM PANEL REINFORCEMENT MAXIMUM SIZE AT CW-3



CONCAVE RADIUS ACM PANEL REINFORCEMENT



CONVEX RADIUS ACM PANEL REINFORCEMENT

WTG 900 SERIES

SCOTT WOLTERS ENGINEER SCOTT A. WOLTERS STATE OF FLORIDA PROFESSIONAL ENGINEER
Wolters Engineering, Inc.
(COA #27198)
15211 92nd Road N,
West Palm Beach,
FL 33412
JUN 20 2025

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SINCE 1934

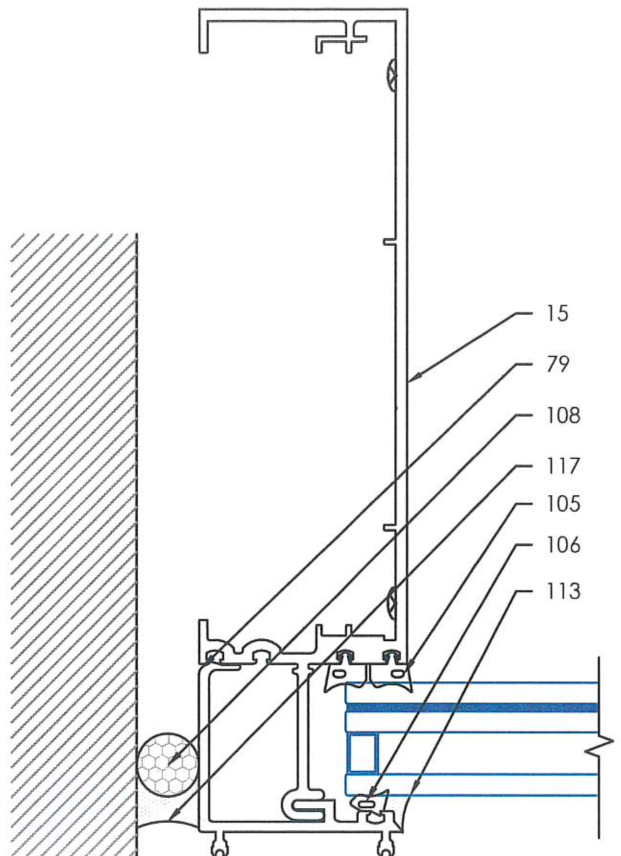
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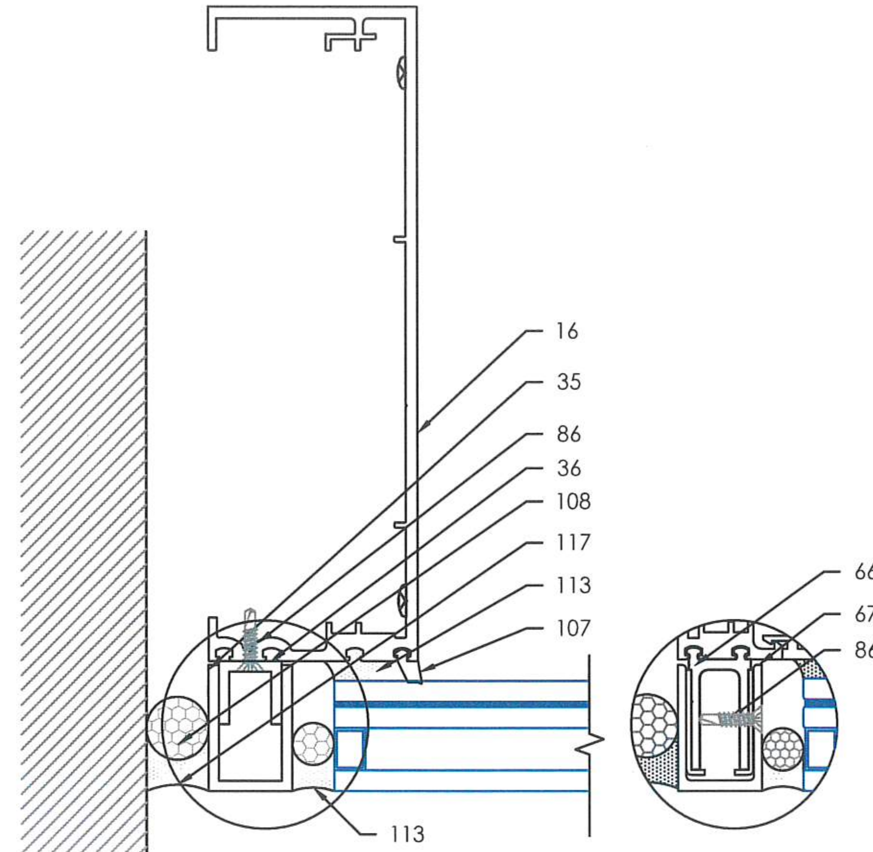
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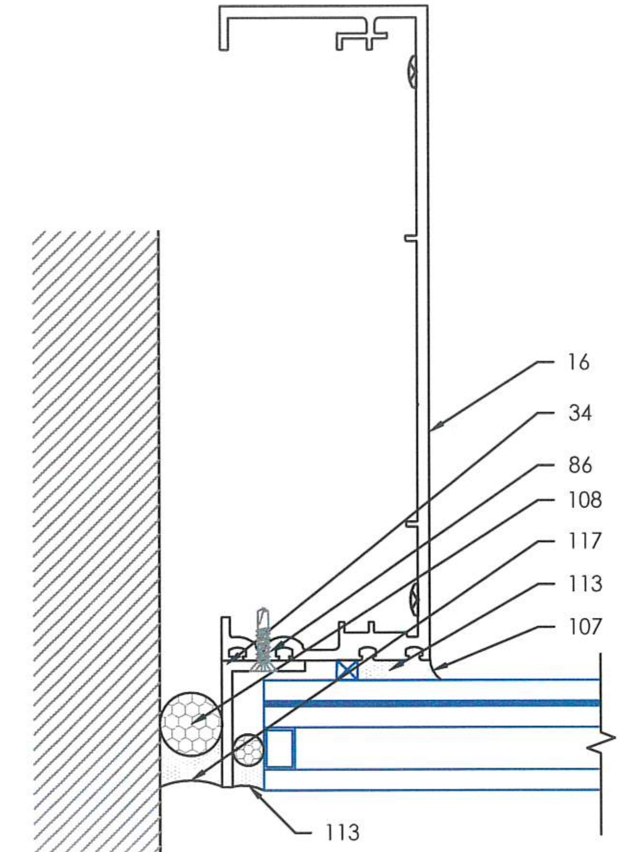
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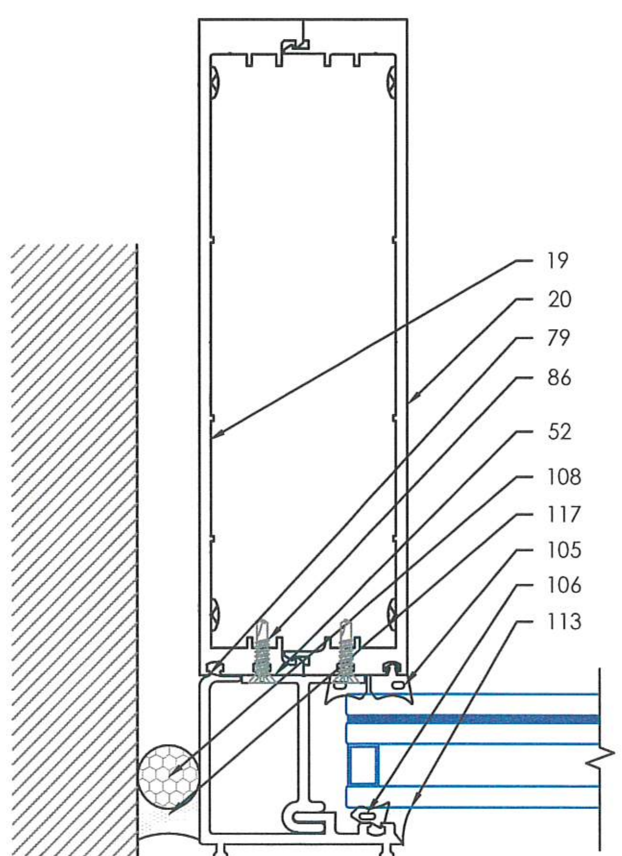
1/06 VERTICAL CROSS SECTION



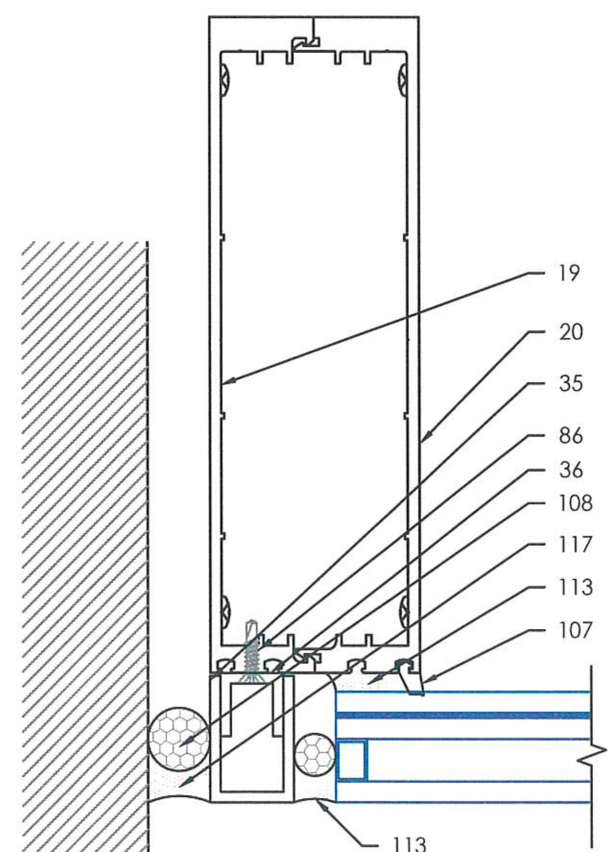
2/06 VERTICAL CROSS SECTION



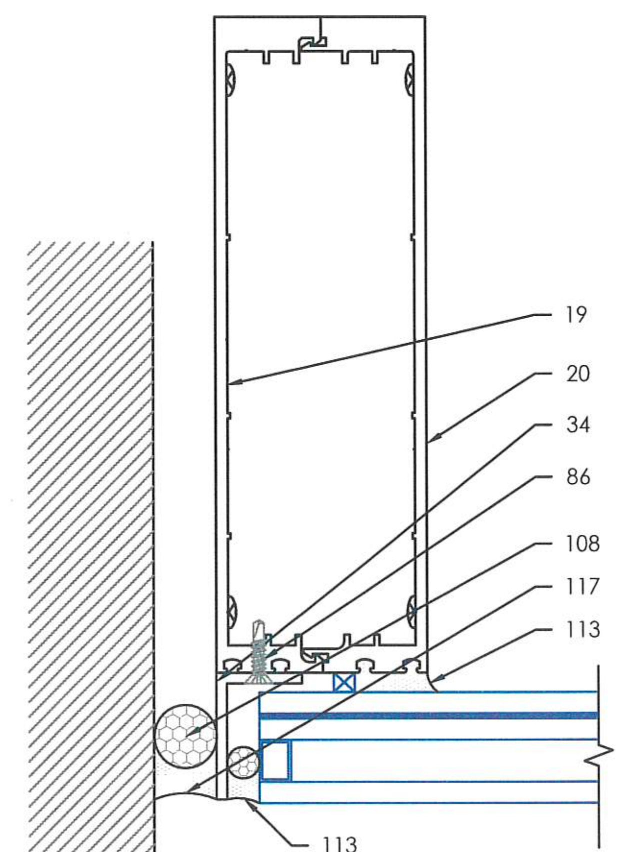
3/06 VERTICAL CROSS SECTION



4/06 VERTICAL CROSS SECTION



5/06 VERTICAL CROSS SECTION



6/06 VERTICAL CROSS SECTION

NOTES:

1. LMI glazing details shown for reference. See sheets 2 - 5C for glazing option details.
2. Attach horizontal mullions to vertical mullions w/ item 87 at each end.
3. Steel reinforcement options per sheet 18.
4. Jamb mullions and caulk joint width must meet requirements of ASTM C1472.
5. Item 117, Min. 1/4" / Max. 3".

WTG 900 SERIES

Wolters Engineering, Inc.
(COA #27198)
15211 97th Road N,
West Palm Beach,
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SCOTT WOLTERS
PROFESSIONAL ENGINEER
STATE OF FLORIDA
JUN 20 2025

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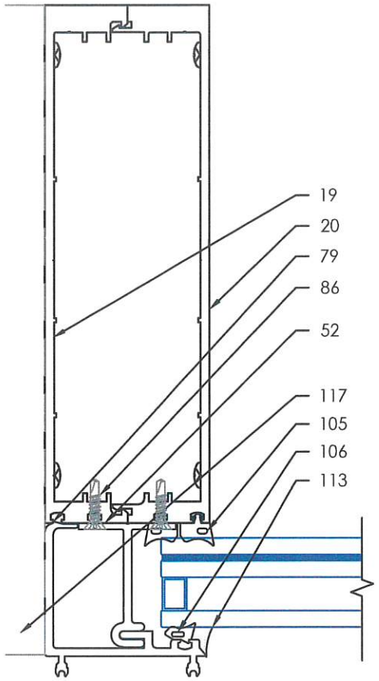
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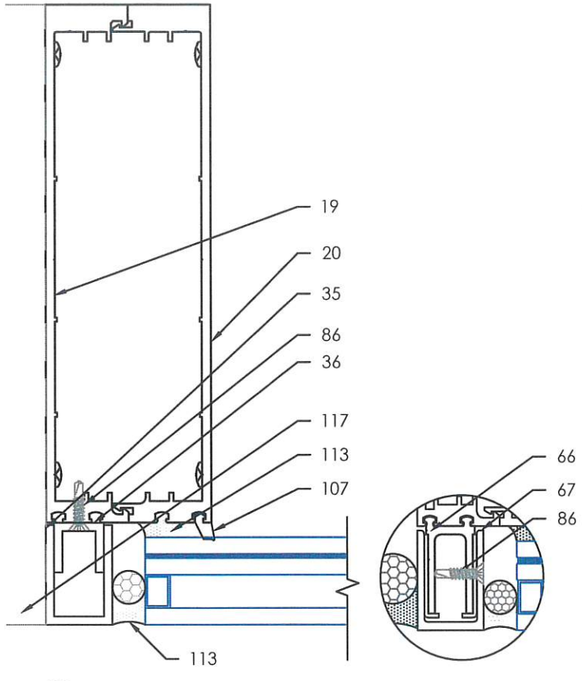
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DOOR/ LOUVER OR OTHER PRODUCT
PER SEPERATE PRODUCT APPROVAL



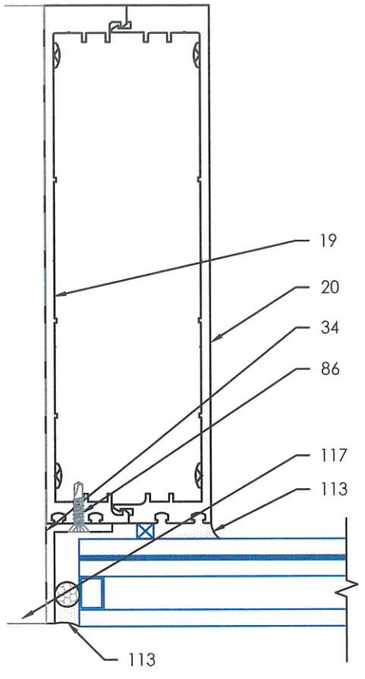
1 06 VERTICAL CROSS SECTION

DOOR/ LOUVER OR OTHER PRODUCT
PER SEPERATE PRODUCT APPROVAL



2 06 VERTICAL CROSS SECTION

DOOR/ LOUVER OR OTHER PRODUCT
PER SEPERATE PRODUCT APPROVAL



3 06 VERTICAL CROSS SECTION

NOTES:

1. LMI glazing details shown for reference. See sheets 2 - 5C for glazing option details.
2. Attach horizontal mullions to vertical mullions w/ item 87 at each end.
3. Steel reinforcement options per sheet 18.
4. Jamb mullions and caulk joint width must meet requirements of ASTM C1472.
5. Item 117, Min. 1/4" / Max. 3".

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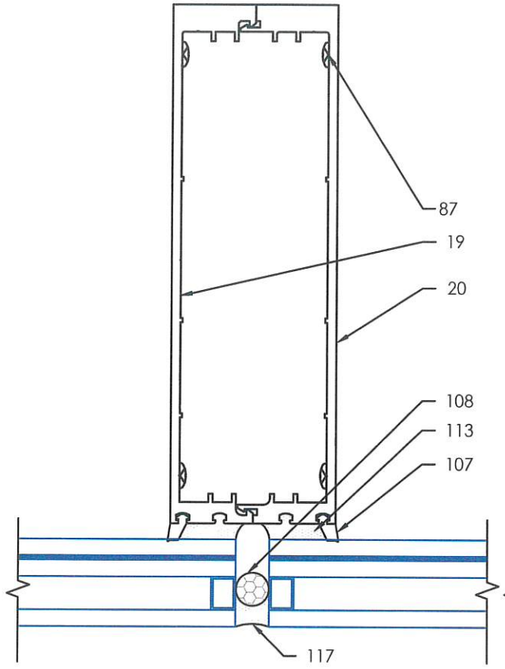
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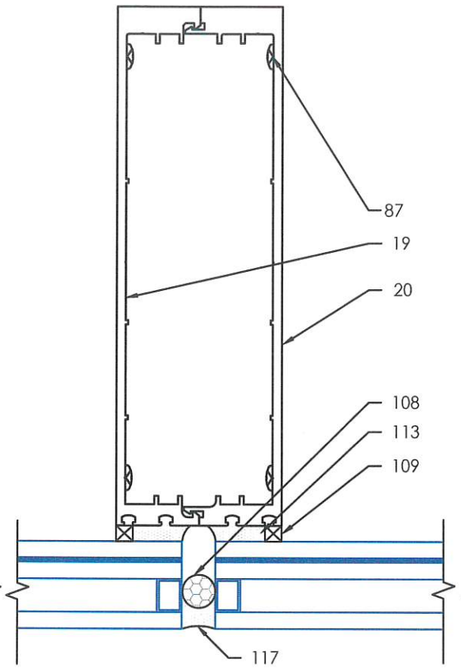
DRAWN BY: KK

SHT: 06A 0

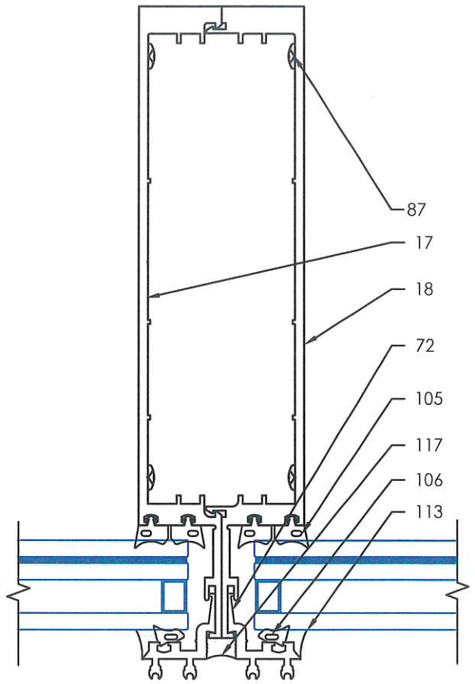
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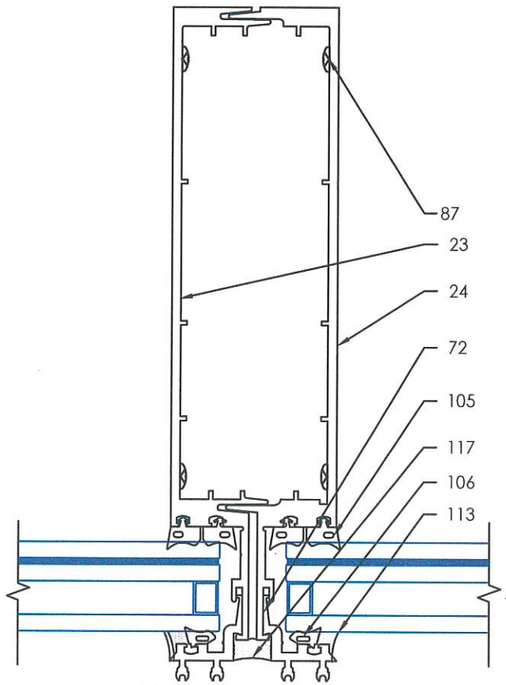
1/07 VERTICAL CROSS SECTION



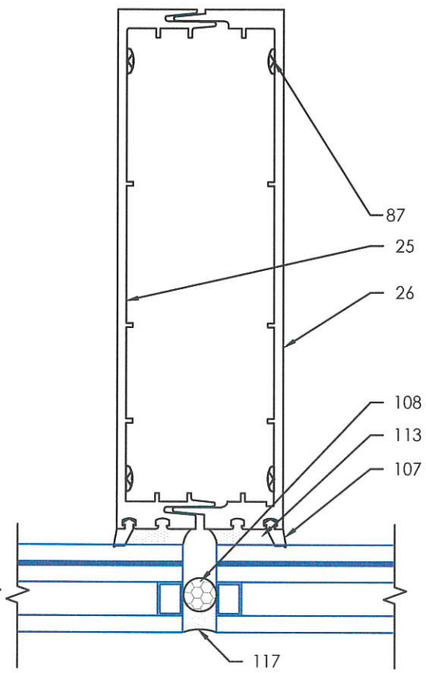
2/07 VERTICAL CROSS SECTION



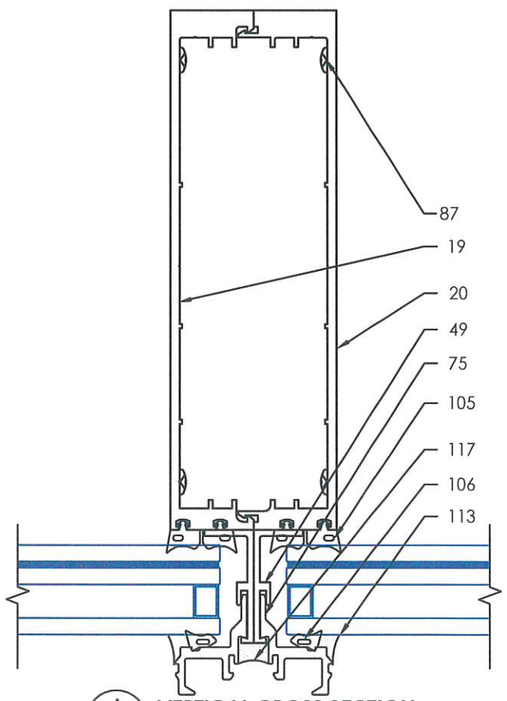
3/07 VERTICAL CROSS SECTION



4/07 VERTICAL CROSS SECTION
EXPANSION MULLION



5/07 VERTICAL CROSS SECTION
EXPANSION MULLION



6/07 VERTICAL CROSS SECTION
PLASTIC PRESSURE BAR

NOTES:
1. LMI glazing details shown for reference. See sheets 2 - 5C for glazing option details.
2. Attach horizontal mullions to vertical mullions w/ item 87 at each end.
3. Steel reinforcement options per sheet 18.
4. Details 1, 2, 3 & 6 are applicable to expansion mullions items 23, 24, 25, 26.

WTG 900 SERIES

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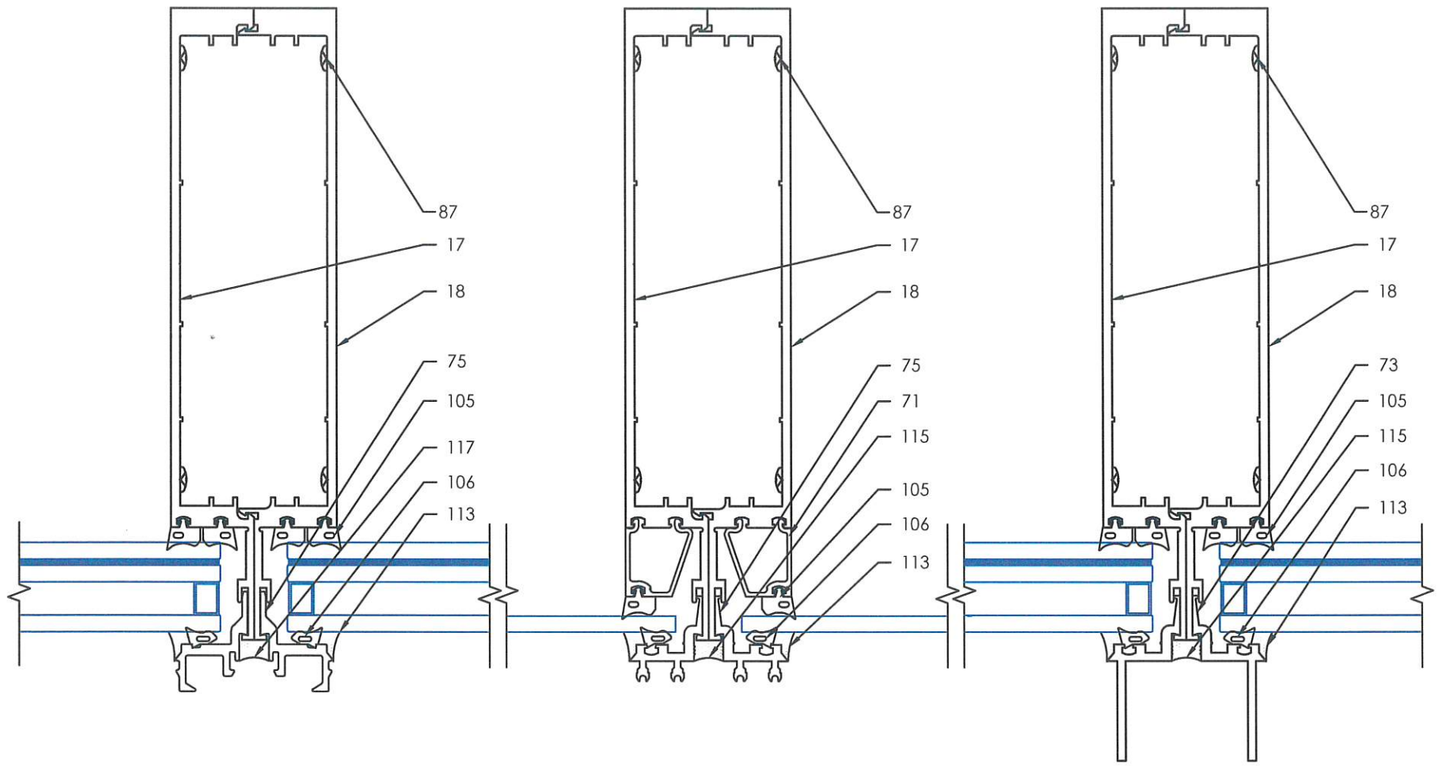
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1 07A *VERTICAL CROSS SECTION*
PLASTIC PRESSURE BAR

2 07A *VERTICAL CROSS SECTION*
ACM INFILL

3 07A *VERTICAL CROSS SECTION*
PRESSURE BAR W/ WINGS

NOTES:
1. LMI glazing details shown for reference. See sheets 2 - 5C for glazing option details.
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3. Steel reinforcement options per sheet 18.
4. Details 1, 2 & 3 are applicable to expansion mullions items 23, 24, 25, 26.

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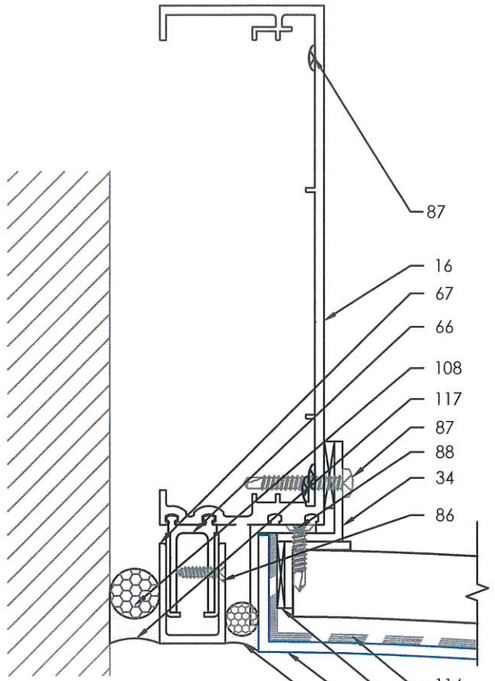
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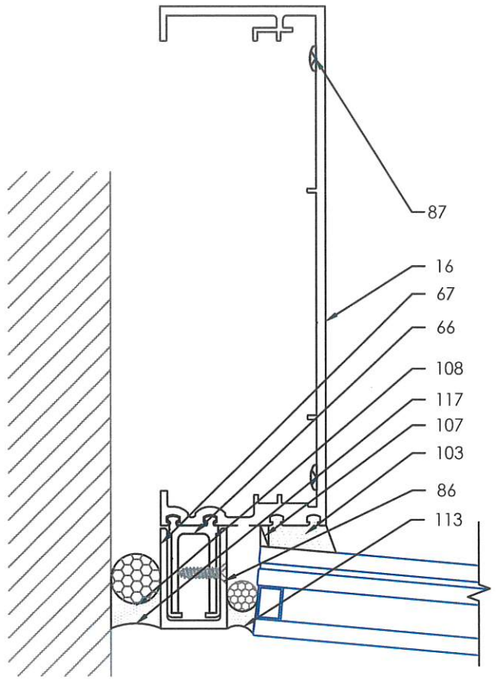
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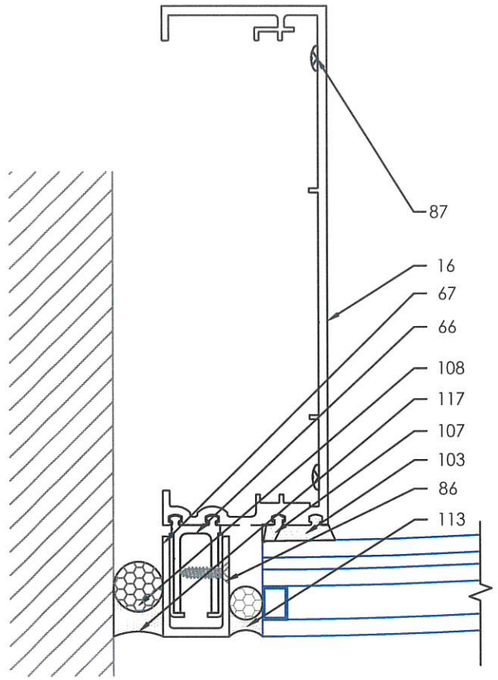
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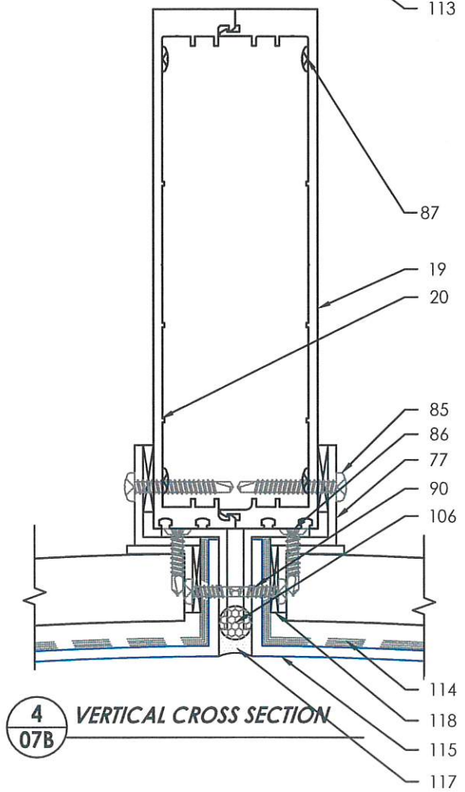
1 07B *VERTICAL CROSS SECTION*



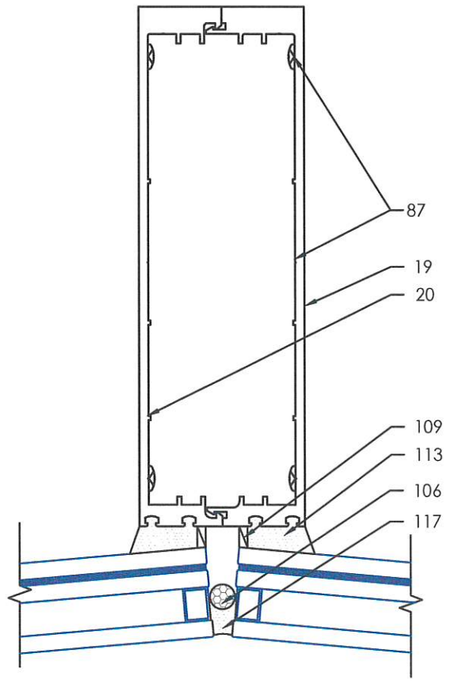
2 07B *VERTICAL CROSS SECTION*



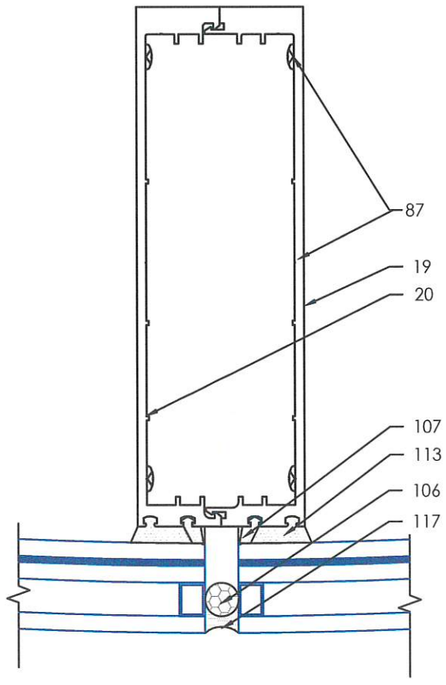
3 07B *VERTICAL CROSS SECTION*



4 07B *VERTICAL CROSS SECTION*



5 07B *VERTICAL CROSS SECTION*



6 07B *VERTICAL CROSS SECTION*

NOTES:

1. LMI glazing details shown for reference. See sheets 2 - 5C for glazing option details.
2. Attach horizontal mullions to vertical mullions w/ item 87 at each end.
3. Steel reinforcement options per sheet 18.
4. Jamb mullions and caulk joint width must meet requirements of ASTM C1472.
5. Item 117, Min. 1/4" / Max. 3".

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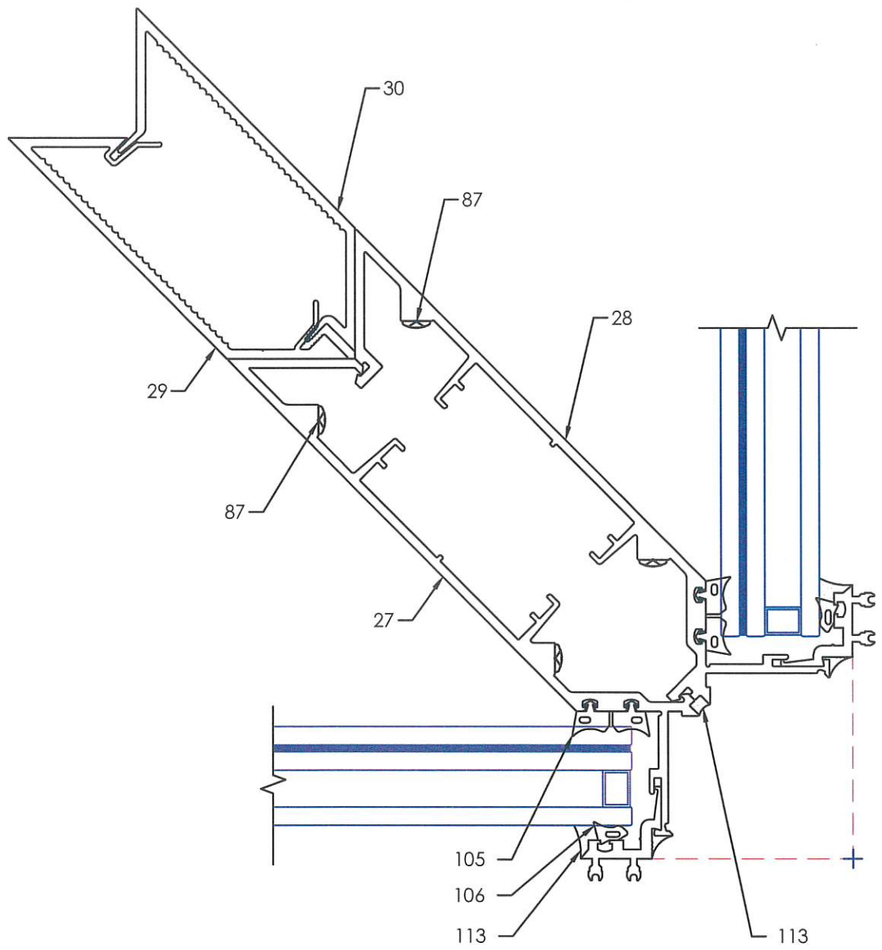
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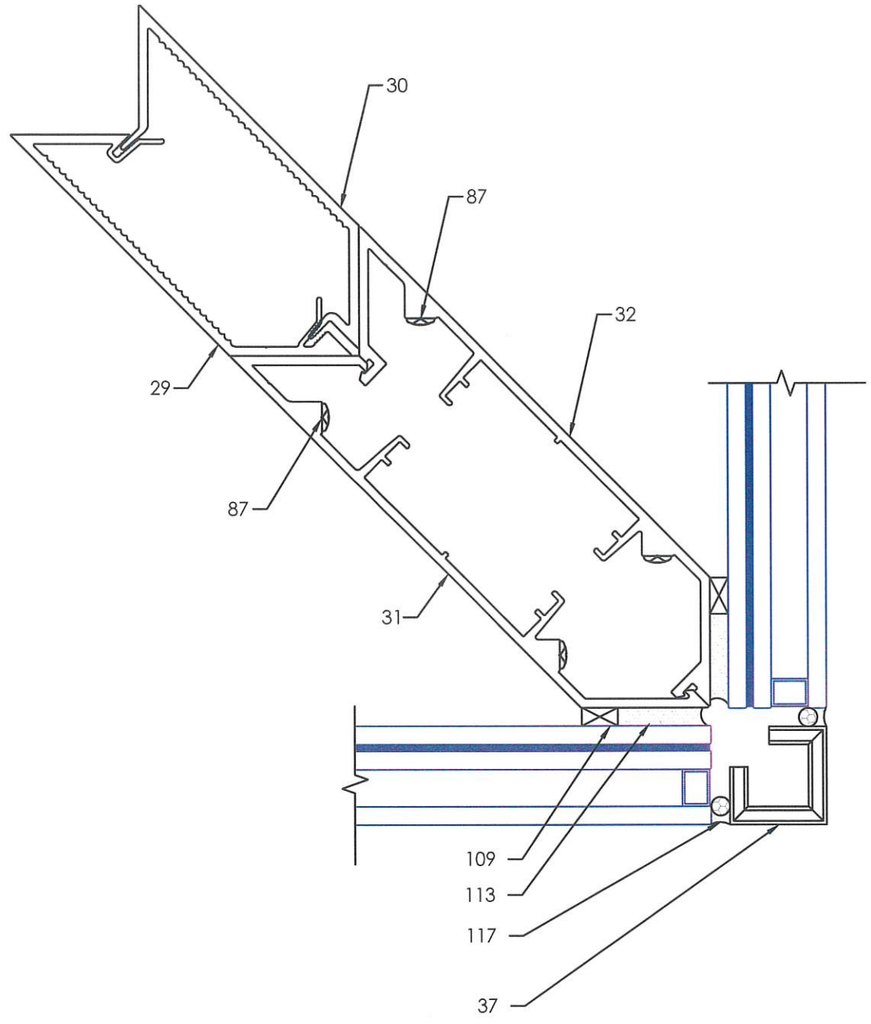
SHT: 07B

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PLOT DATE: 2025-6-20



1 / 08 **VERTICAL CROSS SECTION**
OUTSIDE CORNER



2 / 08 **VERTICAL CROSS SECTION**
Outside corner

NOTES:
1. LMI glazing details shown for reference. See sheets 2 - 5C for glazing option details.
2. Attach horizontal mullions to vertical mullions w/ item 87 at each end.

WTG 900 SERIES

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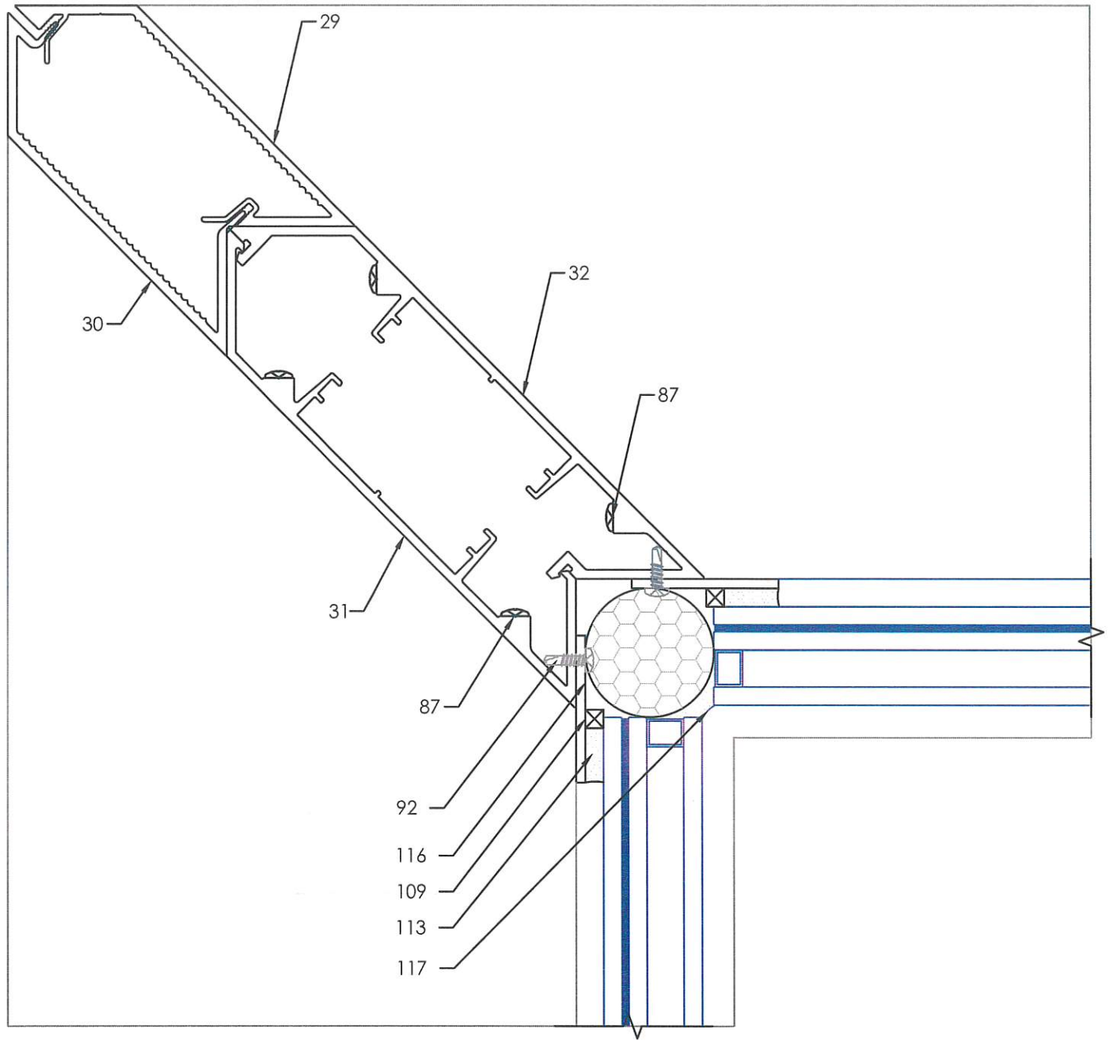
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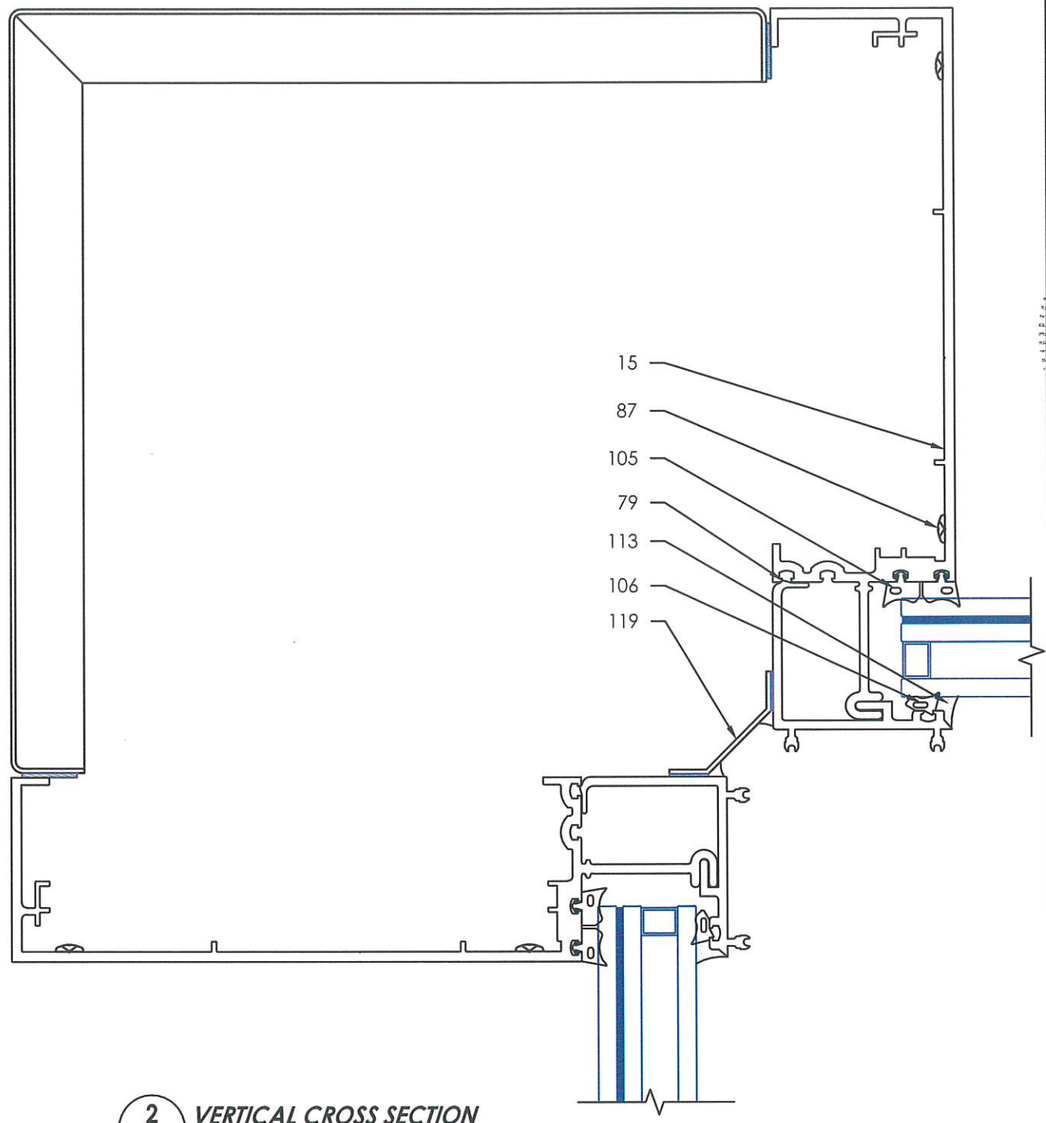
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1/09 **VERTICAL CROSS SECTION**
INSIDE CORNER



2/09 **VERTICAL CROSS SECTION**
Inside corner

NOTES:
1. LMI glazing details shown for reference. See sheets 2 - 5C for glazing option details.
2. Attach horizontal mullions to vertical mullions w/ item 86 at each end.

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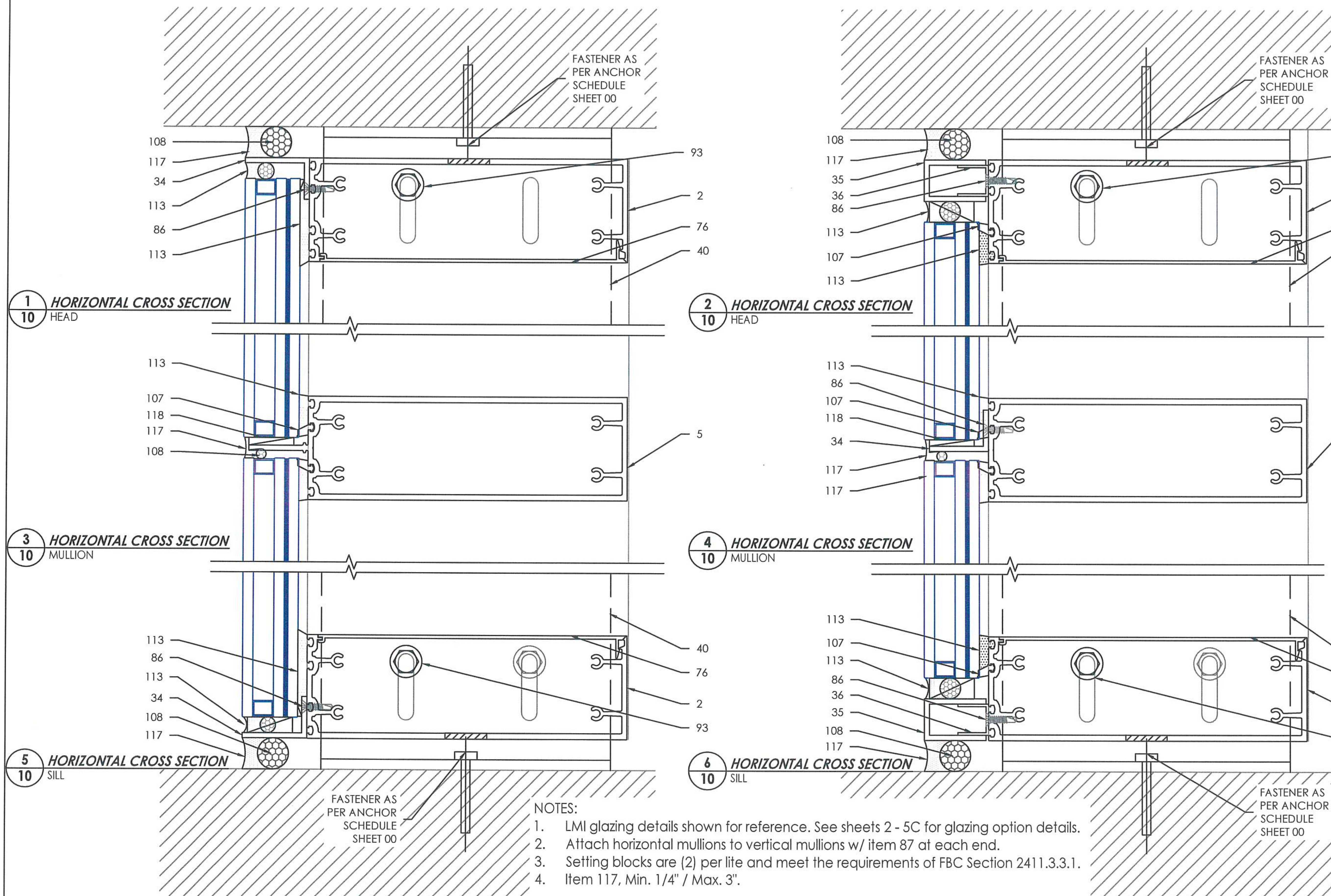
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NOTES:

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2. Attach horizontal mullions to vertical mullions w/ item 87 at each end.
3. Setting blocks are (2) per lite and meet the requirements of FBC Section 2411.3.3.1.
4. Item 117, Min. 1/4" / Max. 3".

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(CA #)
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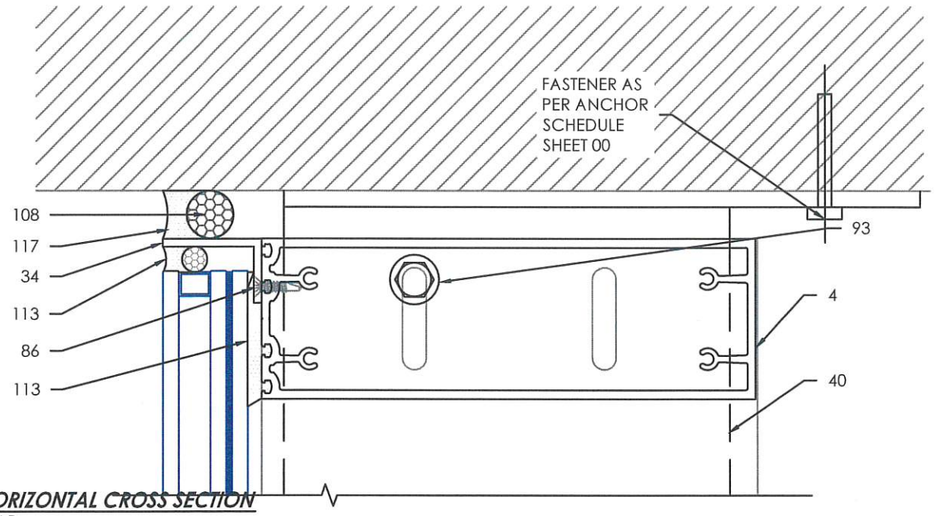
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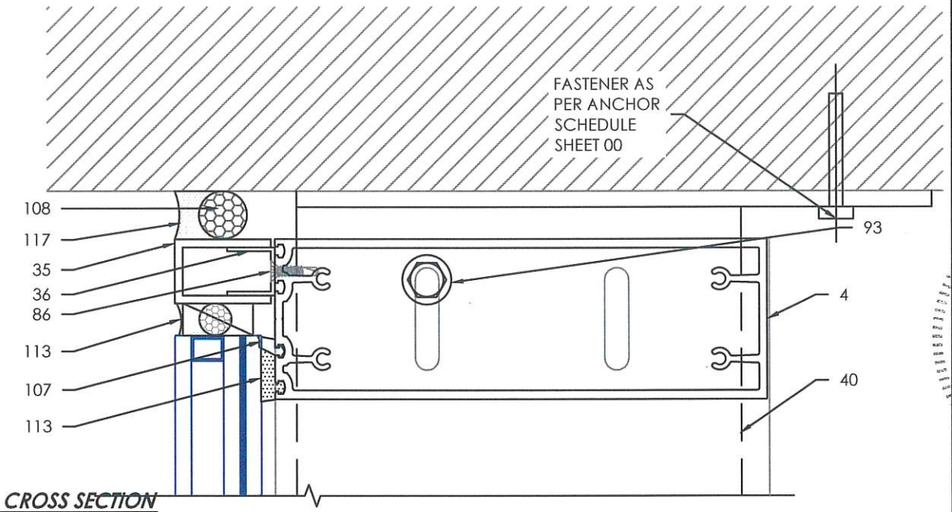
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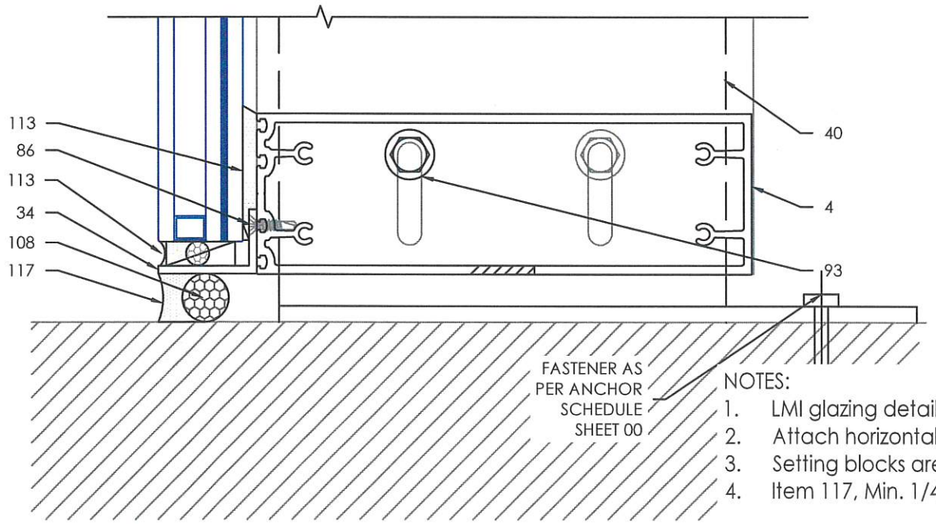


1 / 10A **HORIZONTAL CROSS SECTION**
HEAD

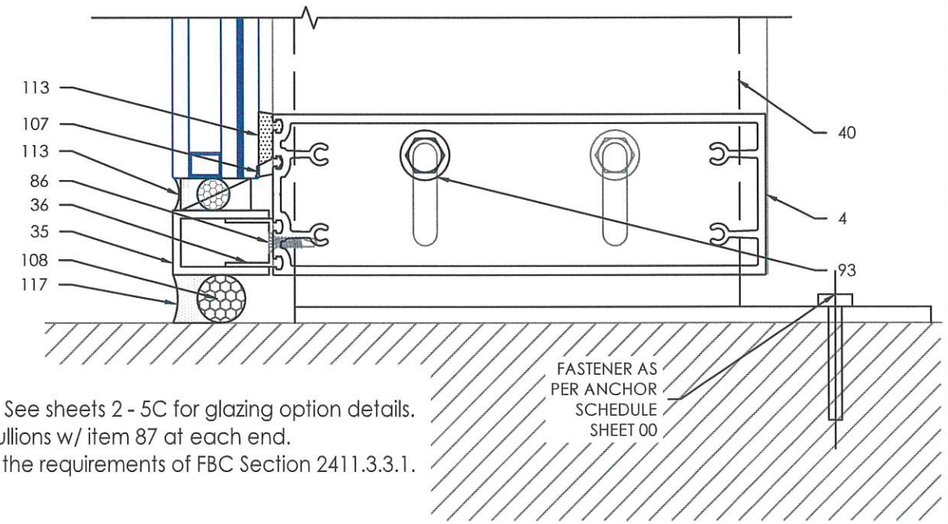


3 / 10A **HORIZONTAL CROSS SECTION**
HEAD

2 / 10A **HORIZONTAL CROSS SECTION**
SILL



4 / 10A **HORIZONTAL CROSS SECTION**
SILL



NOTES:
1. LMI glazing details shown for reference. See sheets 2 - 5C for glazing option details.
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3. Setting blocks are (2) per lite and meet the requirements of FBC Section 2411.3.3.1.
4. Item 117, Min. 1/4" / Max. 3".

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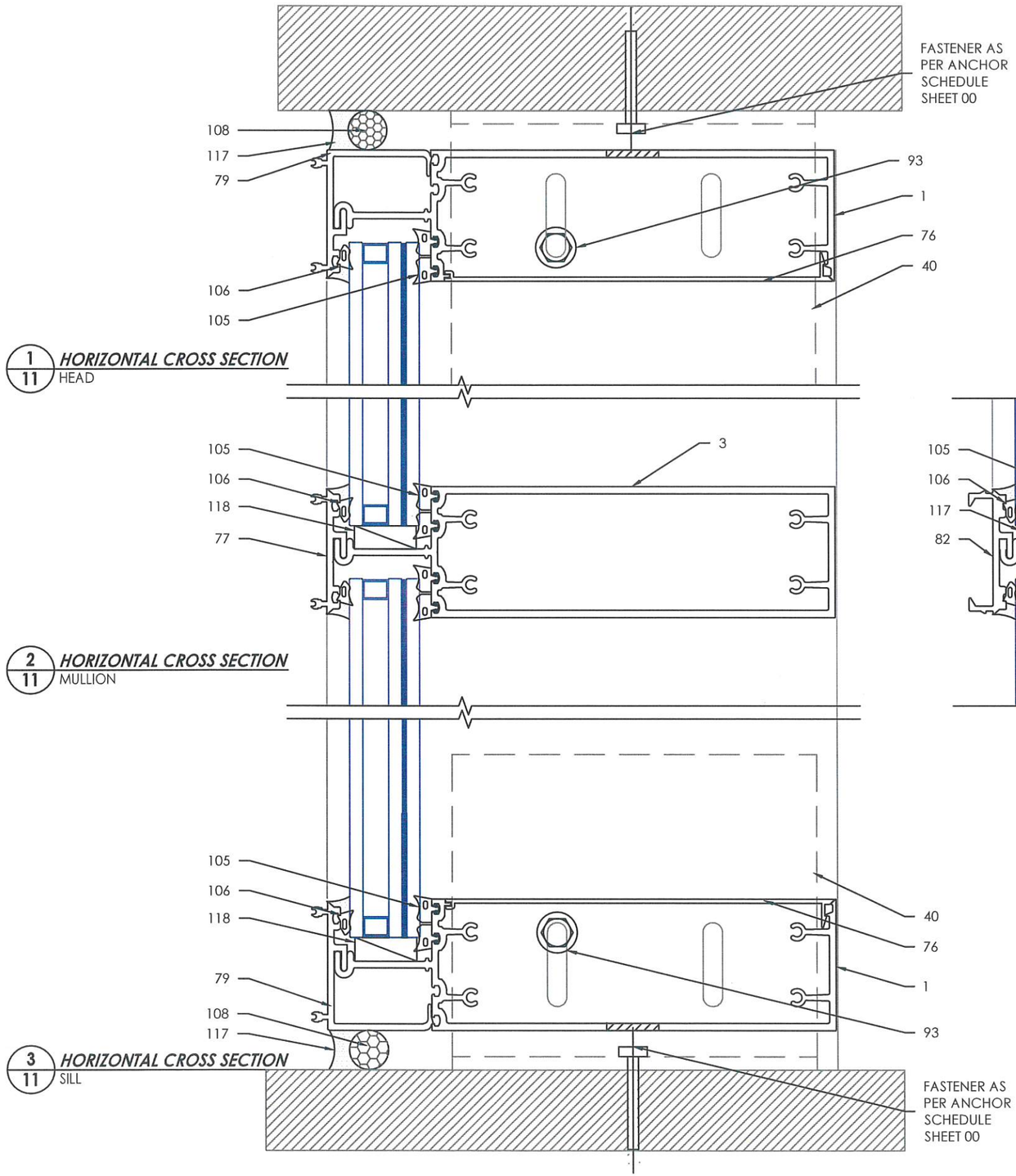
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1/11 *HORIZONTAL CROSS SECTION* HEAD

2/11 *HORIZONTAL CROSS SECTION* MULLION

3/11 *HORIZONTAL CROSS SECTION* SILL

NOTES:

1. LMI glazing details shown for reference. See sheets 2 - 5C for glazing option details.
2. Attach horizontal mullions to vertical mullions w/ item #87 at each end.
3. Setting blocks are (2) per lite and meet the requirements of FBC Section 2411.3.3.1
4. Item 117, Min. 1/4" / Max. 3".

WTG 900 SERIES

SCOTT WOLTERS ENGINEER STATE OF FLORIDA PROFESSIONAL ENGINEER

SCOTT WOLTERS
Wolters Engineering, Inc.
15211 92th Road N,
West Palm Beach,
FL 33412
(COA #27198)
JUN 20 2025

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WEST TAMPA GLASS CO.
SINCE 1934
2705 N. 35TH STREET
TAMPA, FLORIDA 33605
PH: 813-247-5528
FAX: 813-247-6468

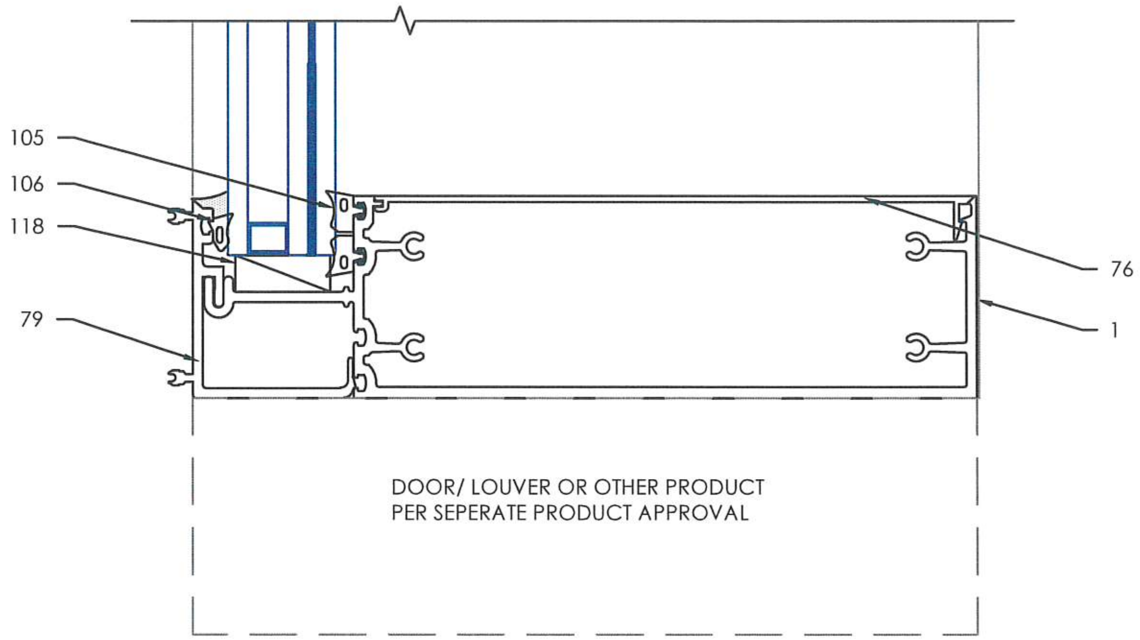
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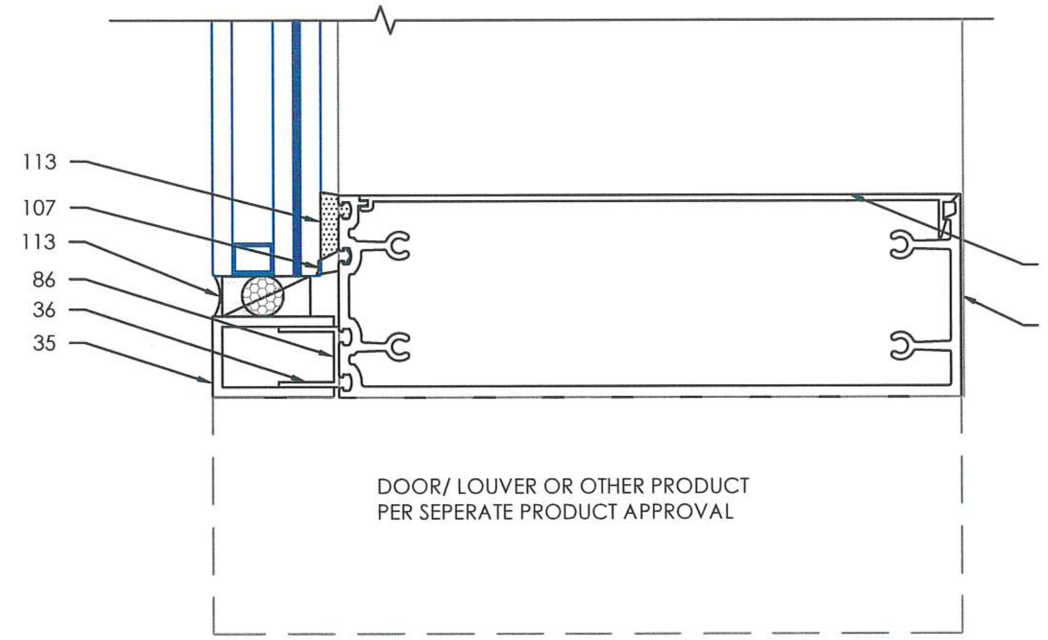
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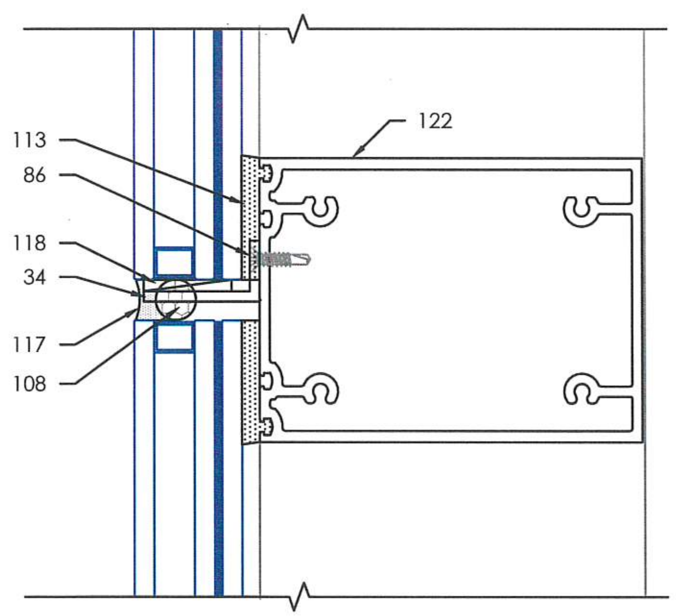
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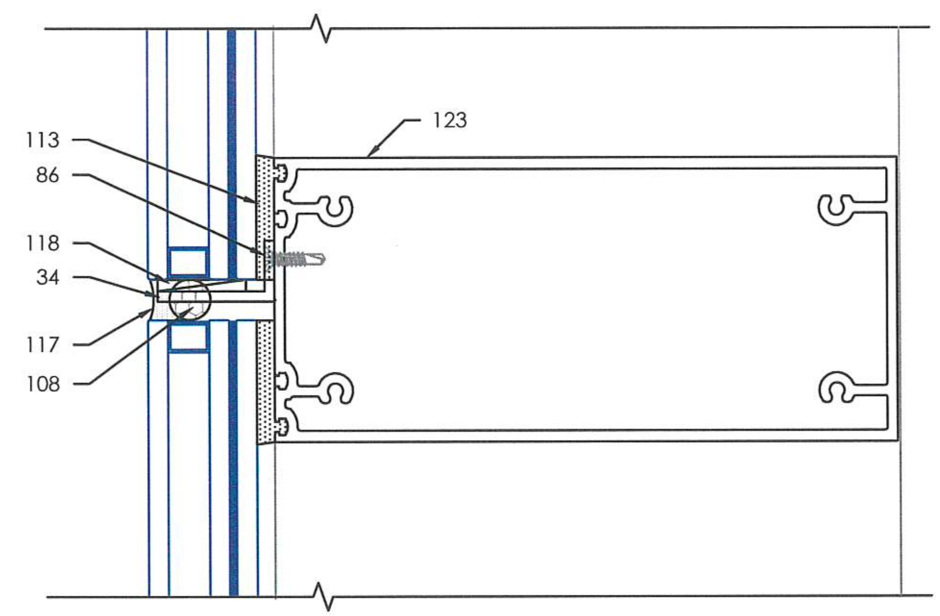
1/11A ***HORIZONTAL CROSS SECTION***
SILL



2/11A ***HORIZONTAL CROSS SECTION***
SILL



3/11A ***HORIZONTAL CROSS SECTION***
MULLION



4/11A ***HORIZONTAL CROSS SECTION***
MULLION

NOTES:

1. LMI glazing details shown for reference. See sheets 2 - 5C for glazing option details.
2. Attach horizontal mullions to vertical mullions w/ item #87 at each end.
3. Setting blocks are (2) per lite and meet the requirements of FBC Section 2411.3.3.1

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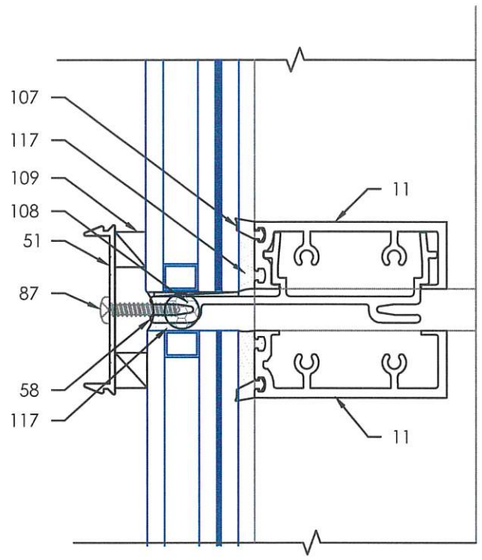
DRAWN BY: KK

SHT: 11A

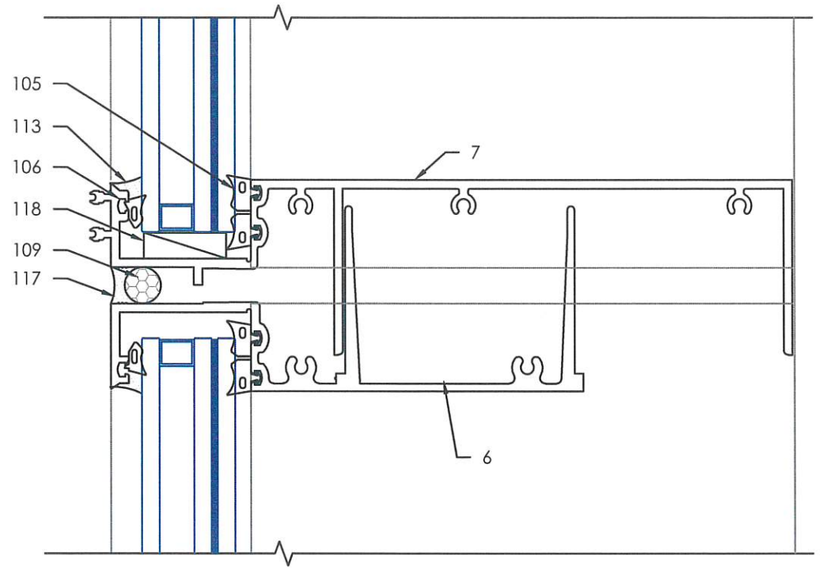
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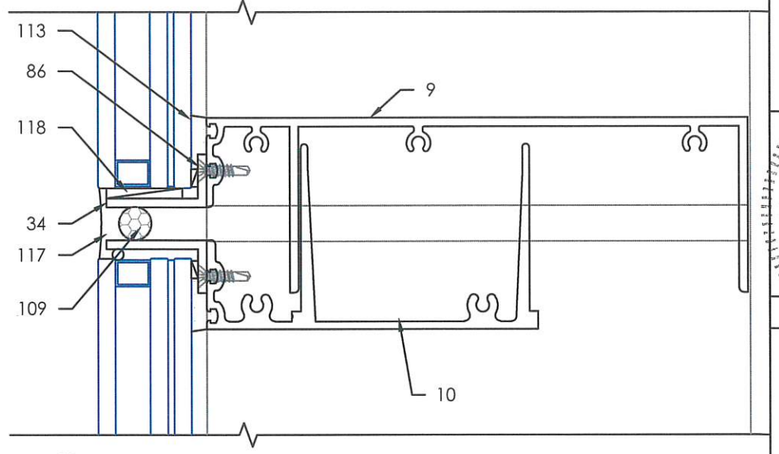
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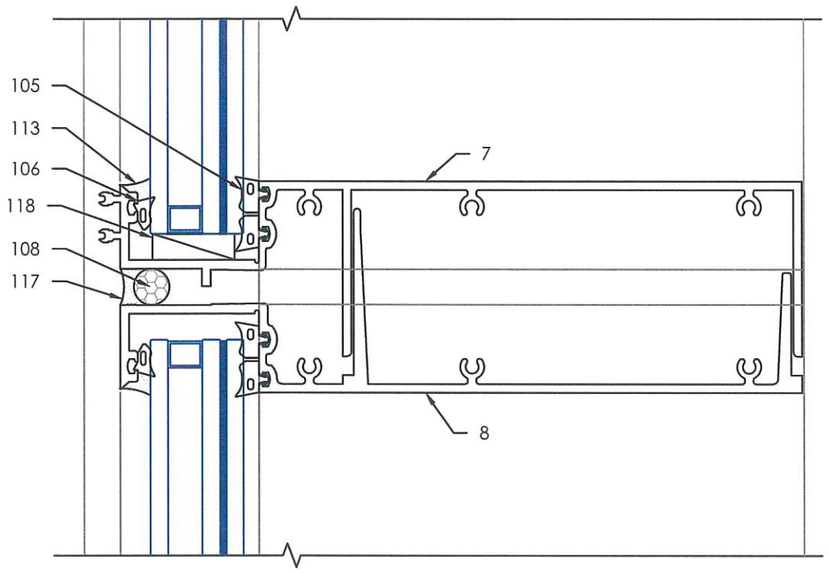
1/12 **HORIZONTAL CROSS SECTION**
MID SPAN



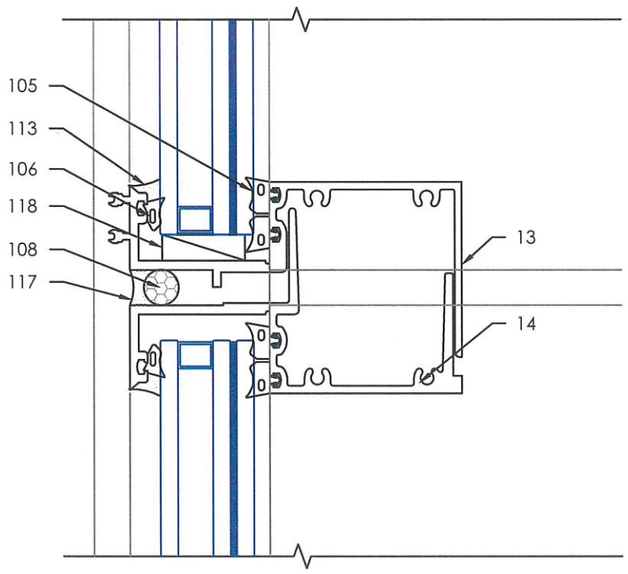
3/12 **HORIZONTAL CROSS SECTION**
MID SPAN



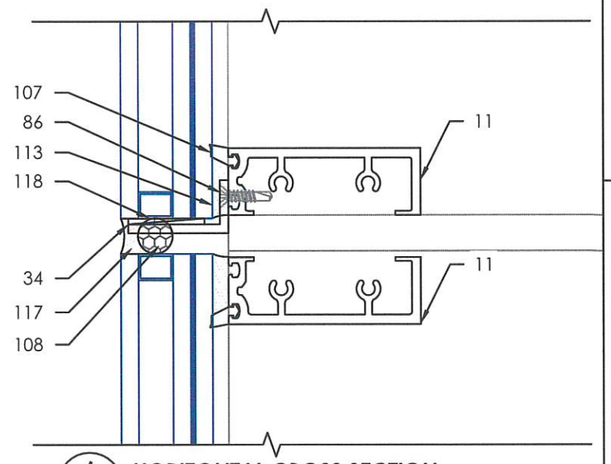
5/12 **HORIZONTAL CROSS SECTION**
MID SPAN



2/12 **HORIZONTAL CROSS SECTION**
MID SPAN



4/12 **HORIZONTAL CROSS SECTION**
MID SPAN



6/12 **HORIZONTAL CROSS SECTION**
MID SPAN

NOTES:

1. LMI glazing details shown for reference. See sheets 2 - 5C for glazing option details.
2. Attach horizontal mullions to vertical mullions w/ item 87 at each end.
3. Setting blocks are (2) per lite and meet the requirements of FBC Section 2411.3.3.1

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Wolfers Engineering, Inc.
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STATE OF FLORIDA
PROFESSIONAL ENGINEER
JUN 20 2025

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2705 N. 35TH STREET
TAMPA, FLORIDA 33605
PH. 813-247-5528
FAX. 813-247-6468

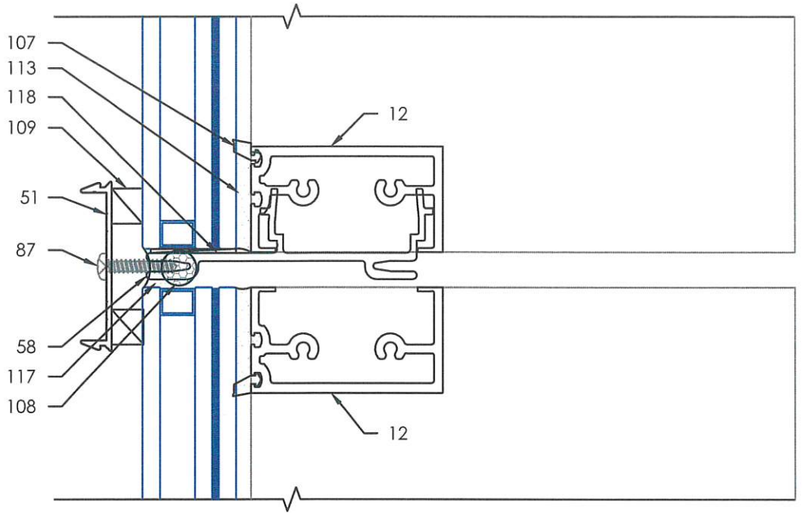
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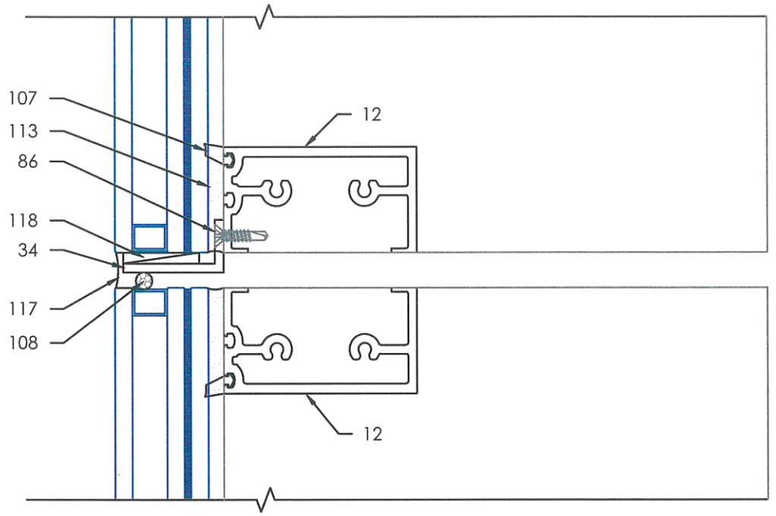
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1 / 12A *HORIZONTAL CROSS SECTION*
MID SPAN



2 / 12A *HORIZONTAL CROSS SECTION*
MID SPAN

3 / 12A *HORIZONTAL CROSS SECTION*
MID SPAN

NOTES:

1. LMI glazing details shown for reference. See sheets 2 - 5C for glazing option details.
2. Attach horizontal mullions to vertical mullions w/ item 87 at each end.
3. Setting blocks are (2) per lite and meet the requirements of FBC Section 2411.3.3.1
4. Mid-span horizontal joint can vary between 1/2" - 1 1/2" as needed to accommodate movement.

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Scott Wolters, P.E.
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JUN 20 2025

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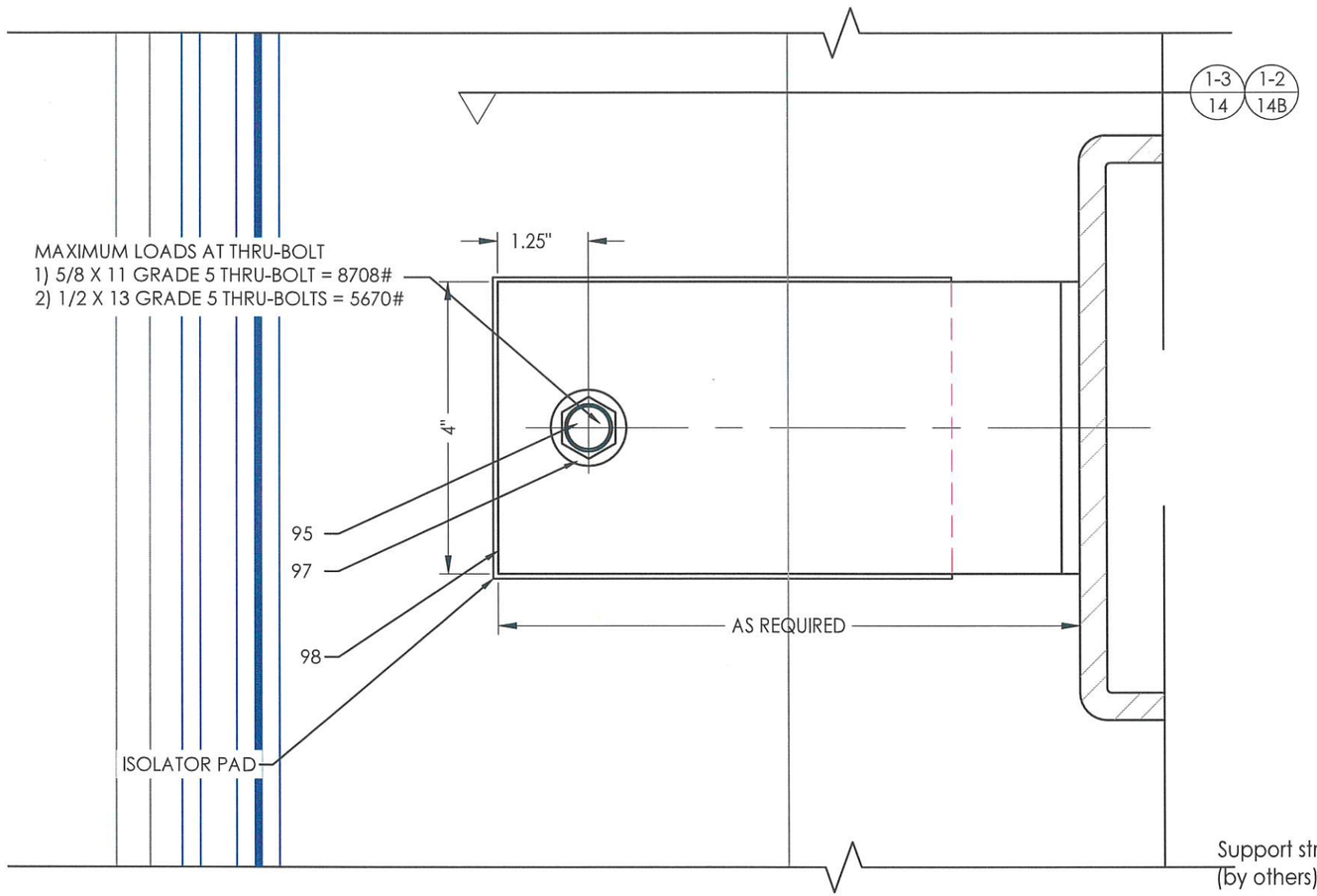
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PLOT DATE: 2025-6-20



1/13 ***MID SPAN ANCHORS***
MAX. WINDLOAD REACTION = 8708 LB (5/8" GR 5 BOLT)
MAX. WINDLOAD REACTION = 5670 LB (1/2" GR 5 BOLT)

NOTE :
1. Anchoring of curtain wall system to supporting structure is the responsibility of the delegated FL licensed engineer for each project.
2. Dimensions shown as tested and may be modified as specified by the architect or FL licensed engineer.

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Wolters Engineering, Inc.
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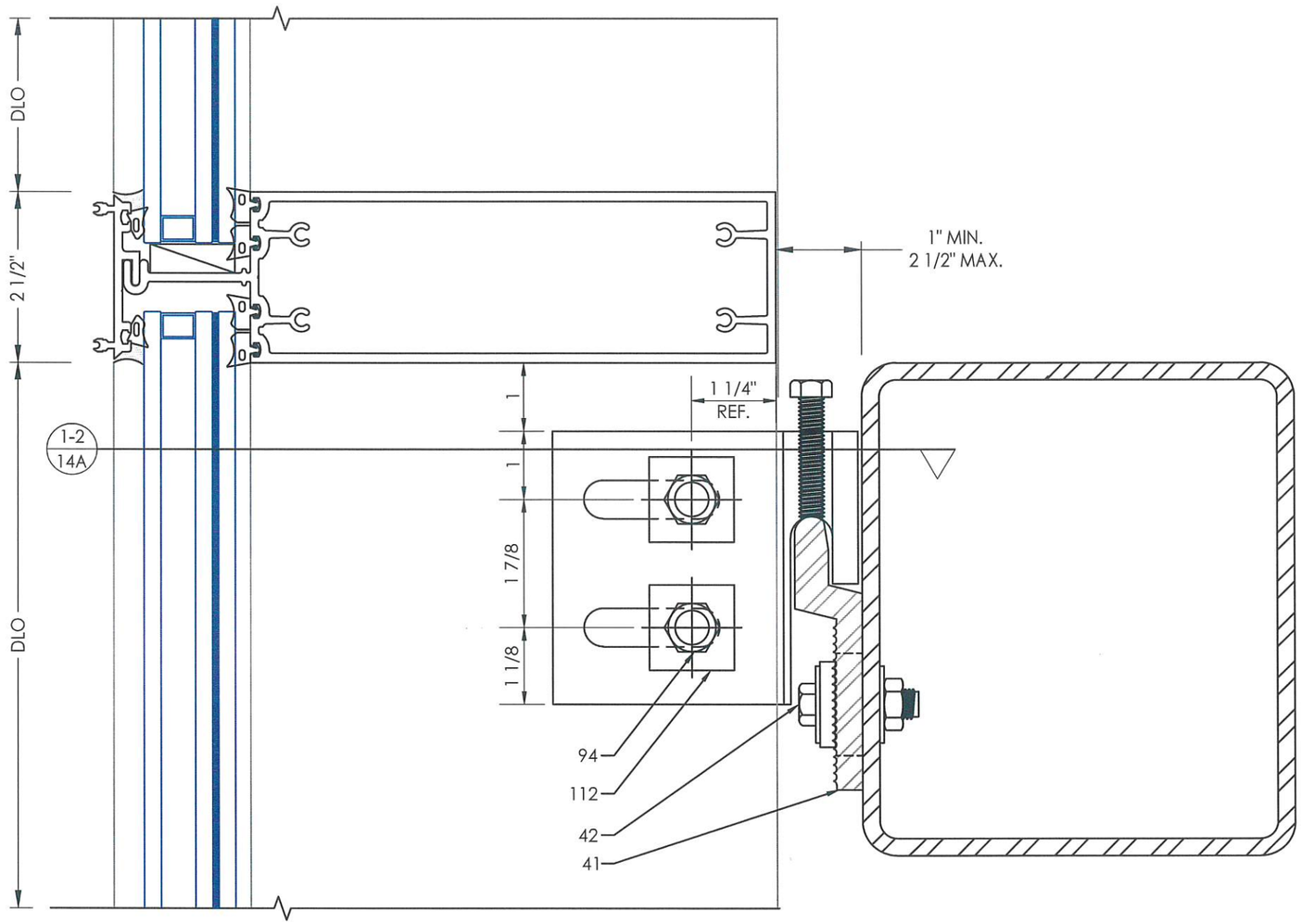
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PLOT DATE: 2025-6-20



1/13A **MID SPAN ANCHORS**
MAX. WINDLOAD REACTION = 5063 LB

NOTE :
1. Anchoring of curtain wall system to supporting structure is the responsibility of the delegated FL licensed engineer for each project.
2. Dimensions shown as tested and may be modified as specified by the architect or FL licensed engineer.

WTG 900 SERIES

SCOTT WORTHEN
ENGINEER
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(COA #27198)
15211 97th Road N.
West Palm Beach, FL 33412
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JUN 20 2025

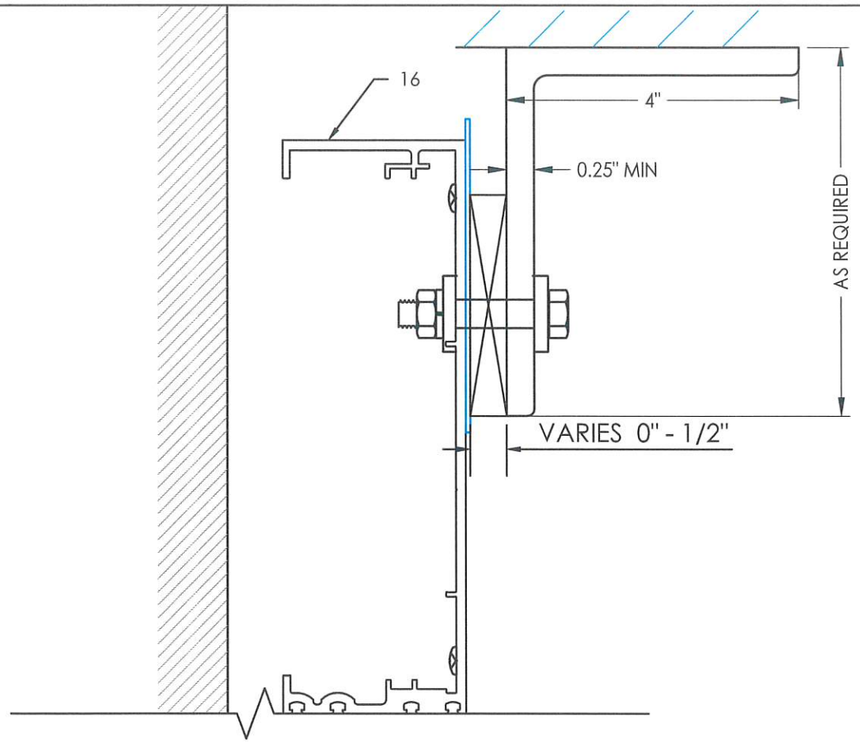
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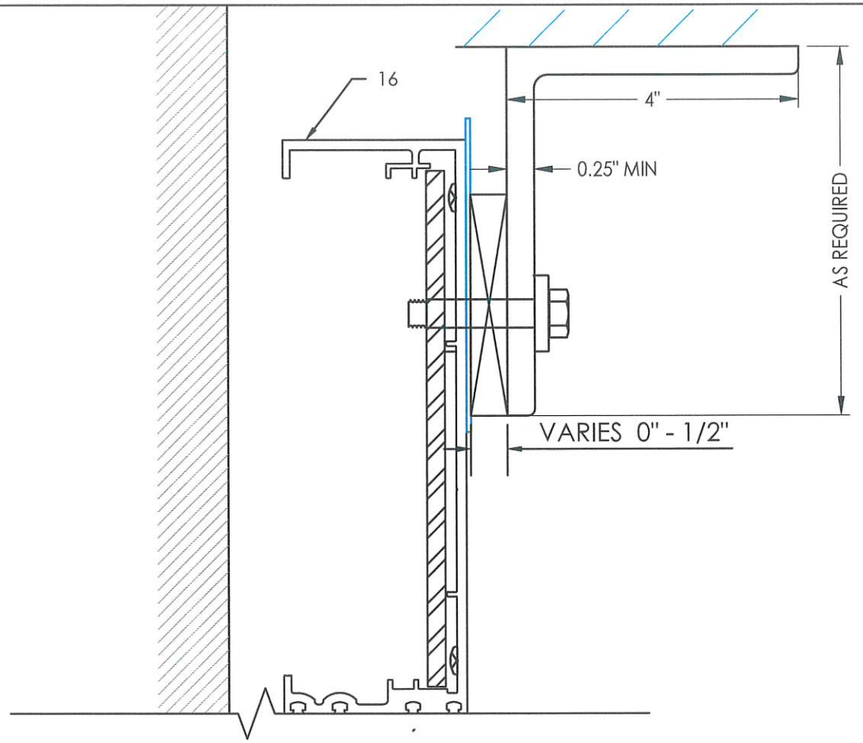
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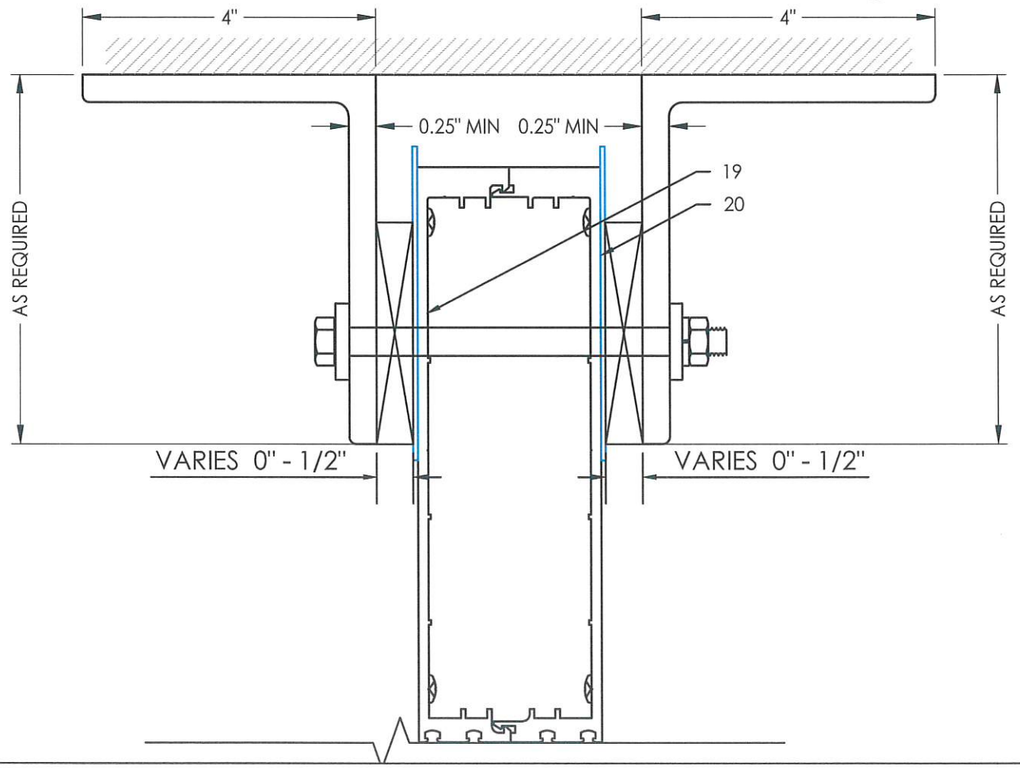
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PLOT DATE: 2025-6-20



1/14 *HORIZONTAL CROSS SECTION*



2/14 *HORIZONTAL CROSS SECTION*



3/14 *HORIZONTAL CROSS SECTION*

NOTE :

1. Anchoring of curtain wall system to supporting structure is the responsibility of the delegated FL licensed engineer for each project.
2. Dimensions shown as tested and may be modified as specified by the architect or FL licensed engineer.

WTG 900 SERIES

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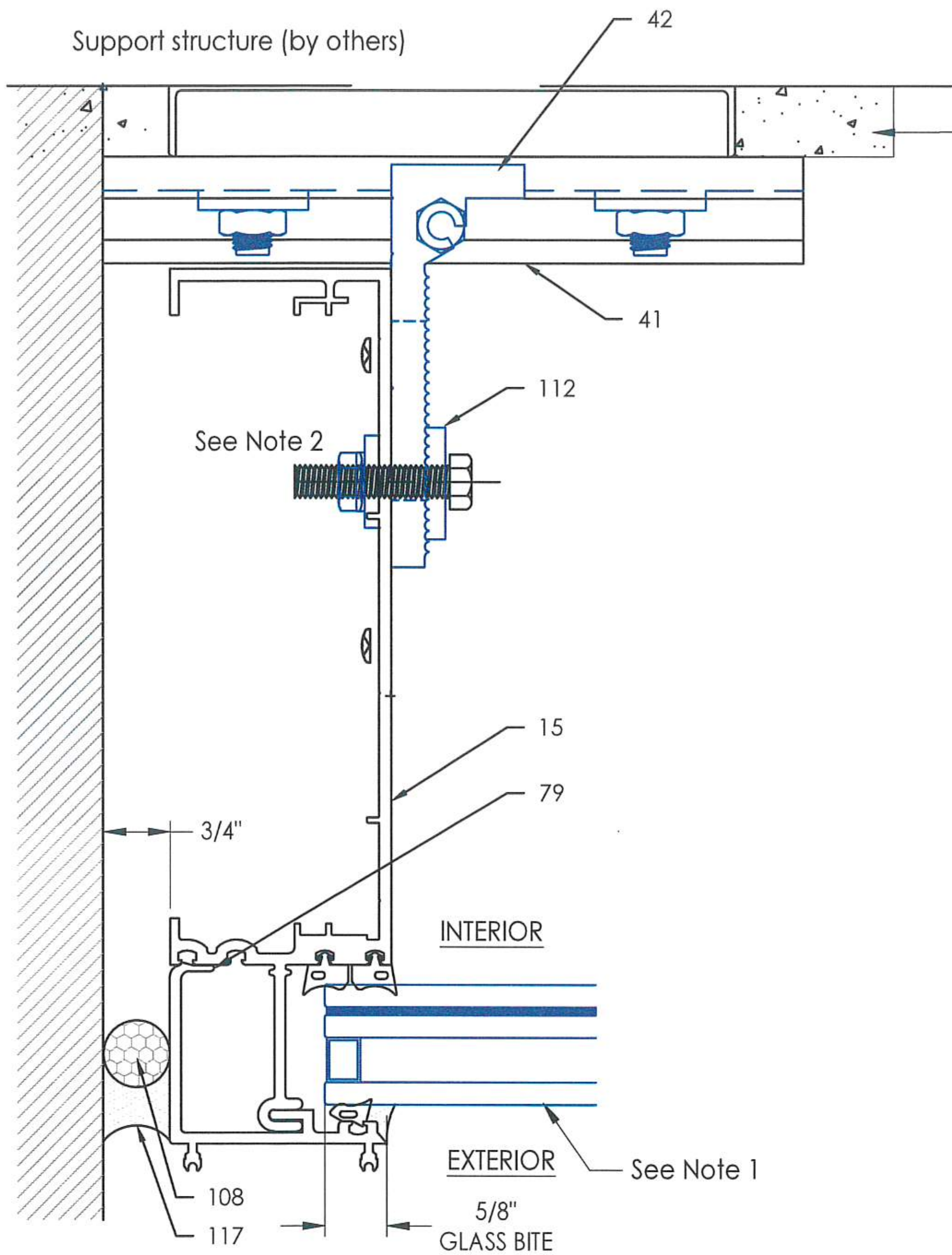
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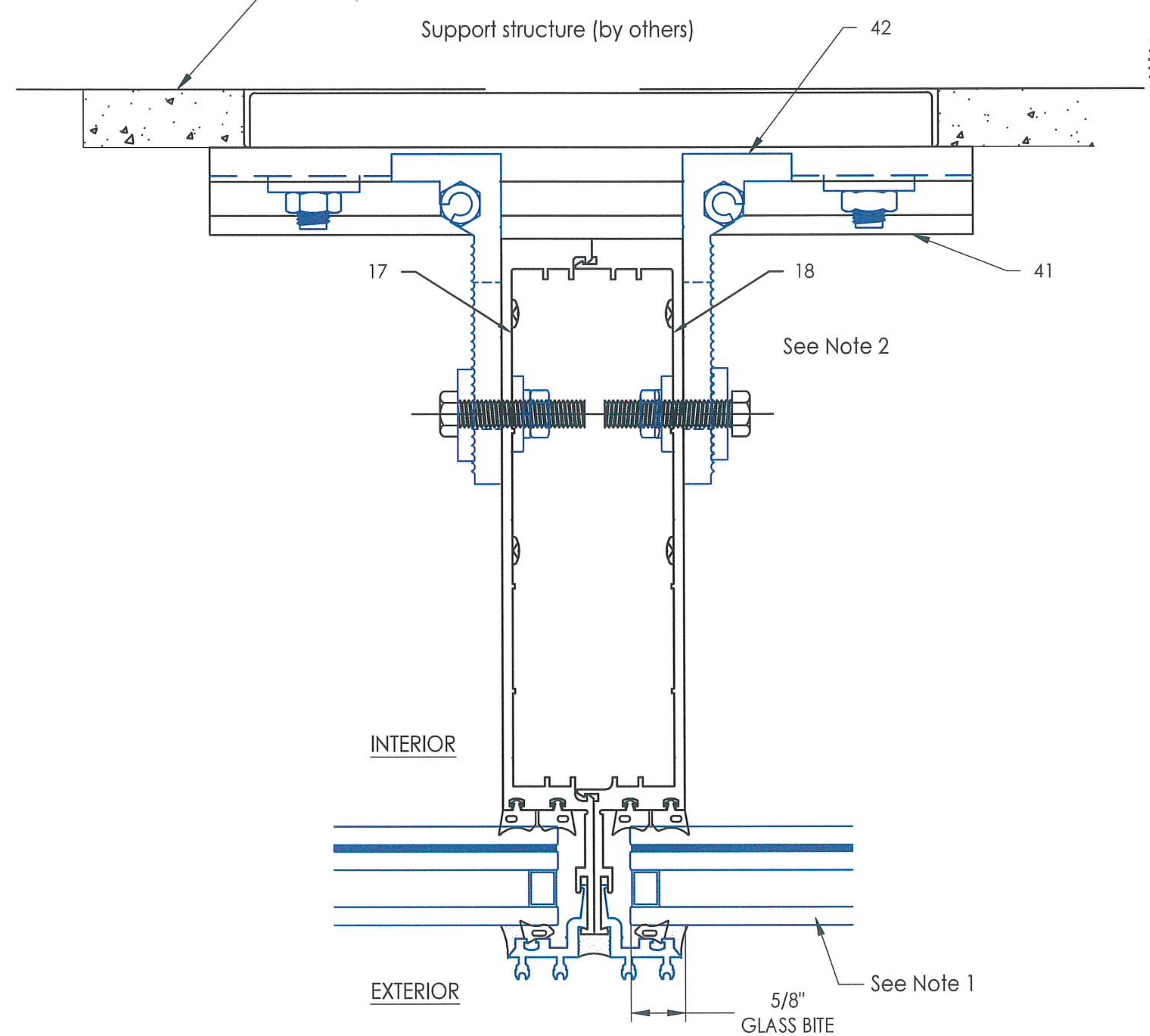
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PLOT DATE: 2025-6-20

Anchoring of curtain wall system to supporting structure is the responsibility of the delegated FL licensed engineer for each project.
Dimensions shown as tested and may be modified as specified by the architect or FL licensed engineer.



1 / 14A ***HORIZONTAL CROSS SECTION***
Jamb @ anchor clip



2 / 14A ***HORIZONTAL CROSS SECTION***
Intermediate mullion @ anchor clip

NOTES:
1. See sheets 2, 3 & 4 for glazing option details and sheets 14 & 15 for face cover option details.

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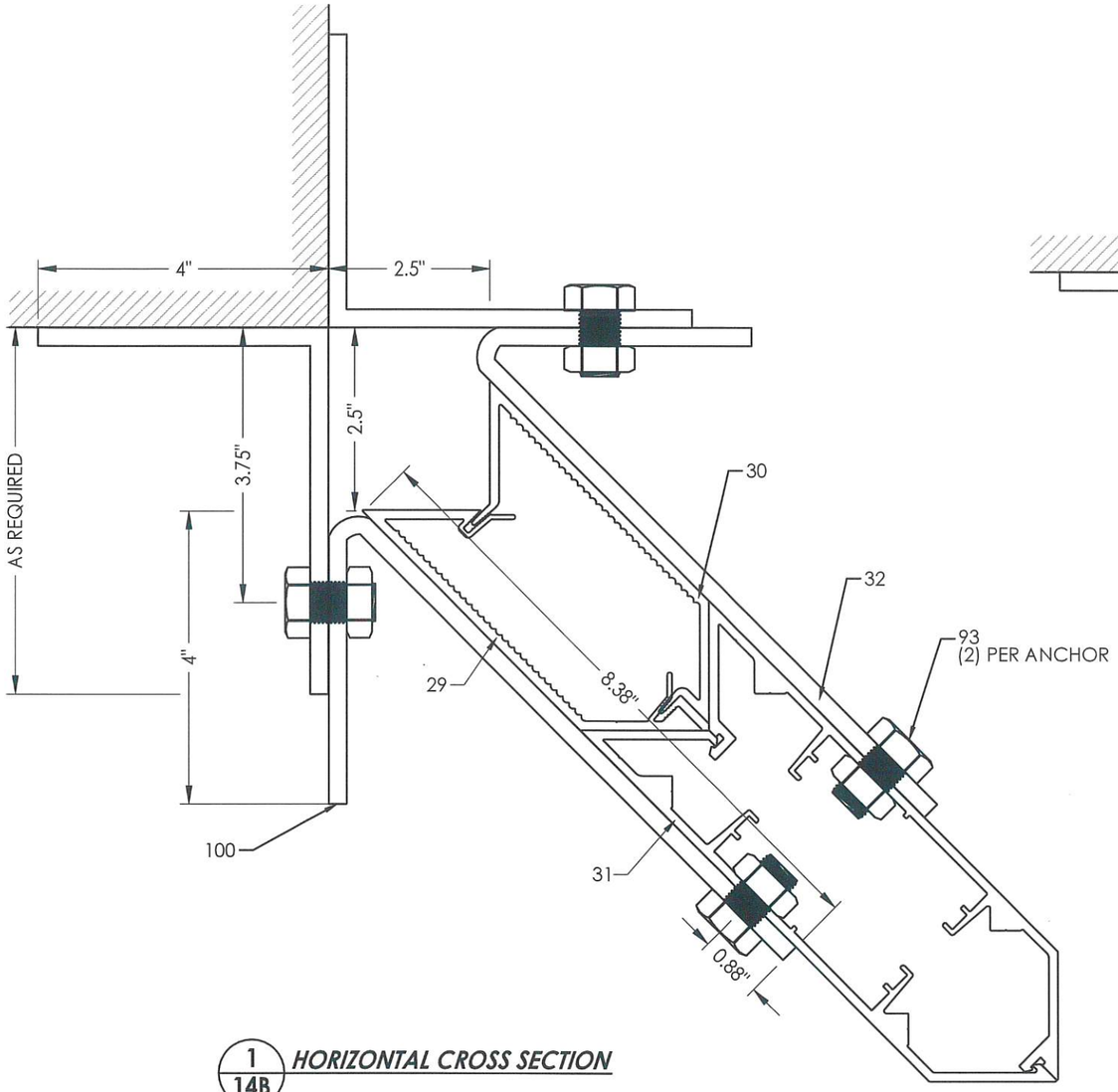
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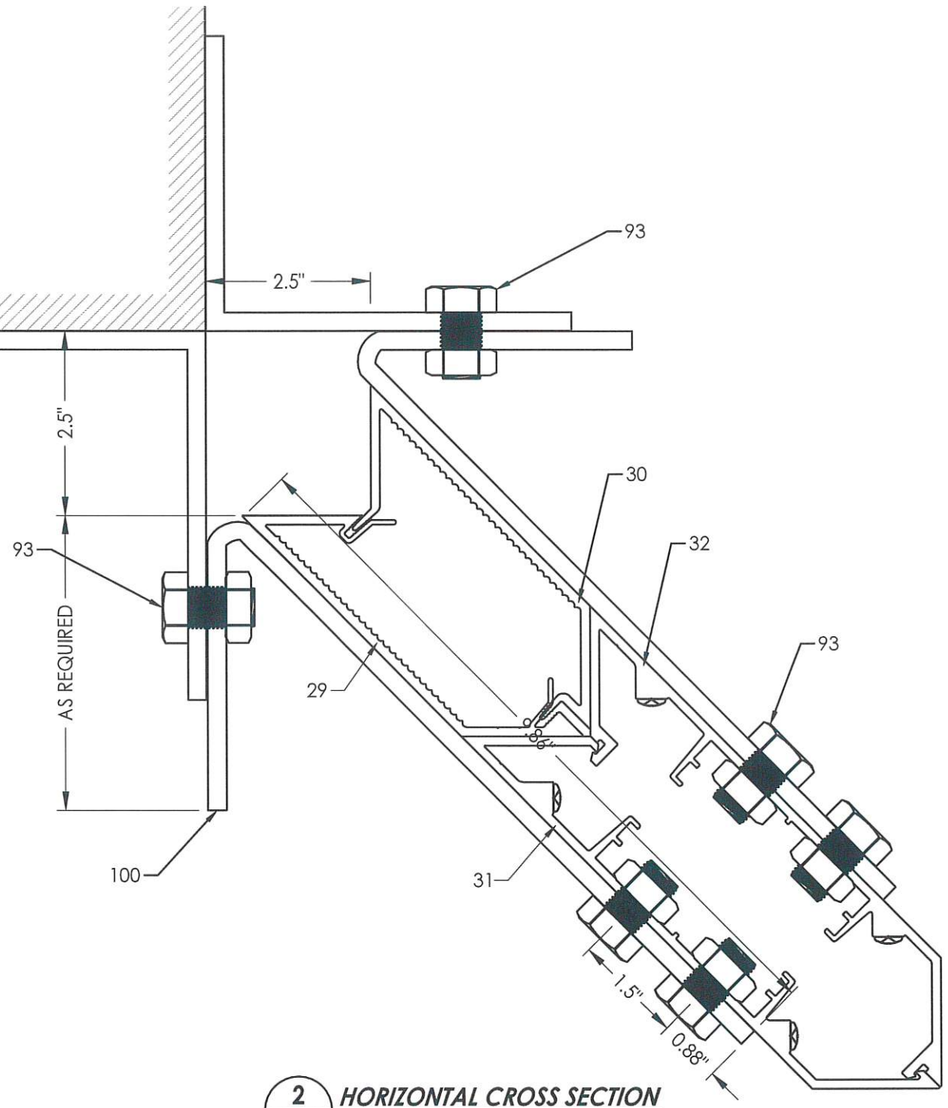
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1 / 14B **HORIZONTAL CROSS SECTION**



2 / 14B **HORIZONTAL CROSS SECTION**

NOTE :

1. Anchoring of curtain wall system to supporting structure is the responsibility of the delegated FL licensed engineer for each project.
2. Dimensions shown as tested and may be modified as specified by the architect or FL licensed engineer.

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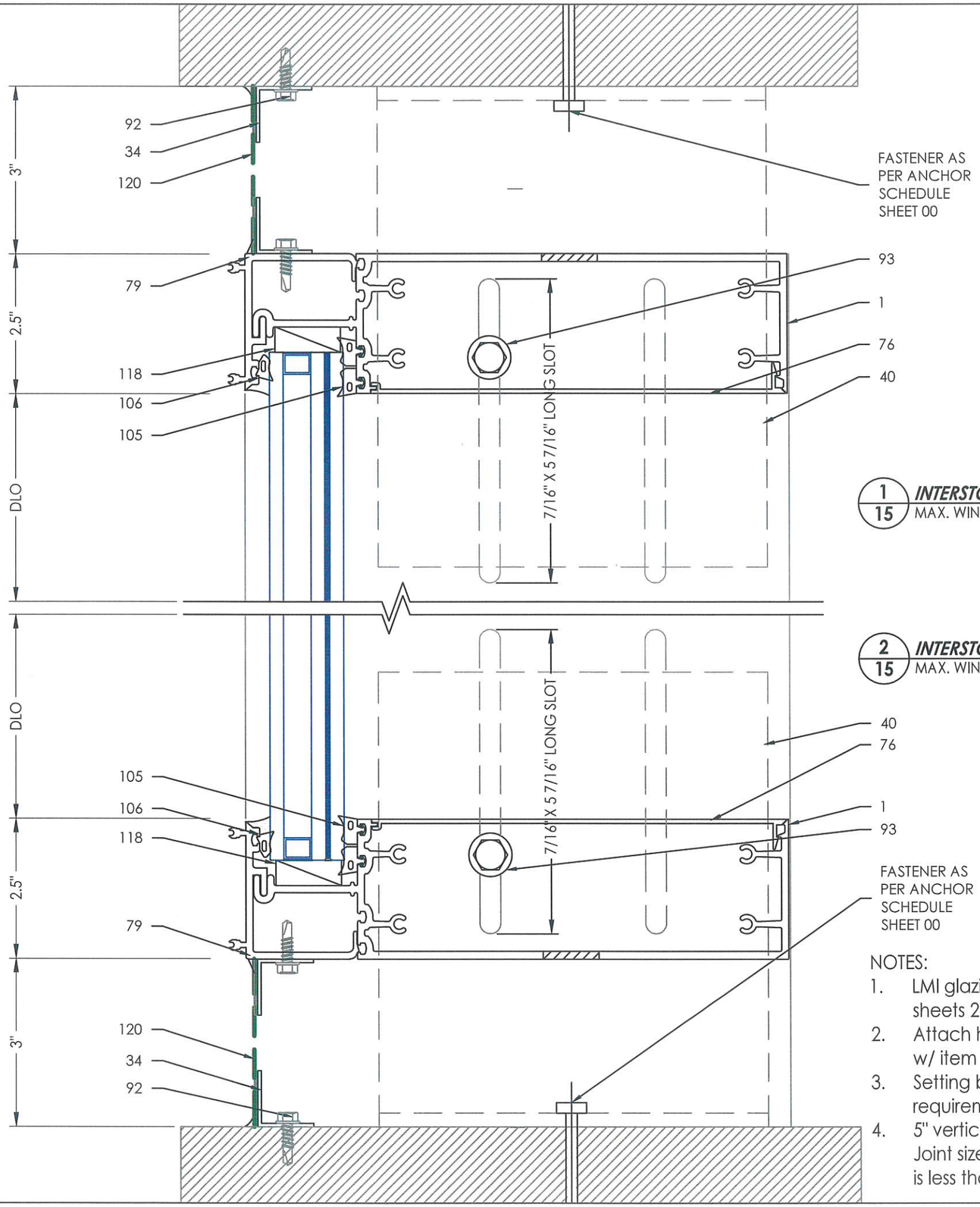
DRAWN BY: KK

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PLOT DATE: 2025-6-20

INTERSTORY DRIFT & SEISMIC DETAILS



1/15 ***INTERSTORY HEAD***
MAX. WINDLOAD REACTION = 4900 LB

2/15 ***INTERSTORY SILL***
MAX. WINDLOAD REACTION = 4900 LB

NOTES:

1. LMI glazing details shown for reference. See sheets 2 - 5C for glazing option details.
2. Attach horizontal mullions to vertical mullions w/ item 87 at each end.
3. Setting blocks are (2) per lite and meet the requirements of FBC Section 2411.3.3.1
4. 5" vertical joint that can move up to ± 2 1/2". Joint size can be less, if projected movement is less than 2 1/2".

WTG 900 SERIES

SCOTT WOLTERS ENGINEER
COUNTY: MIAMI-DADE
STATE: FLORIDA
Wolters Engineering, Inc.
(COA #27198)
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FL 33412
JUN 20 2025
PROFESSIONAL ENGINEER

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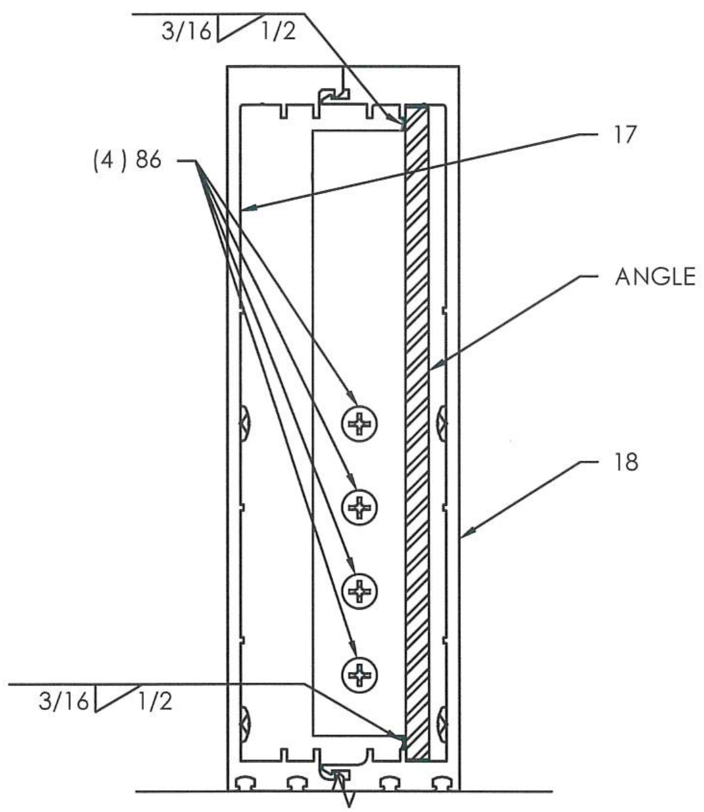
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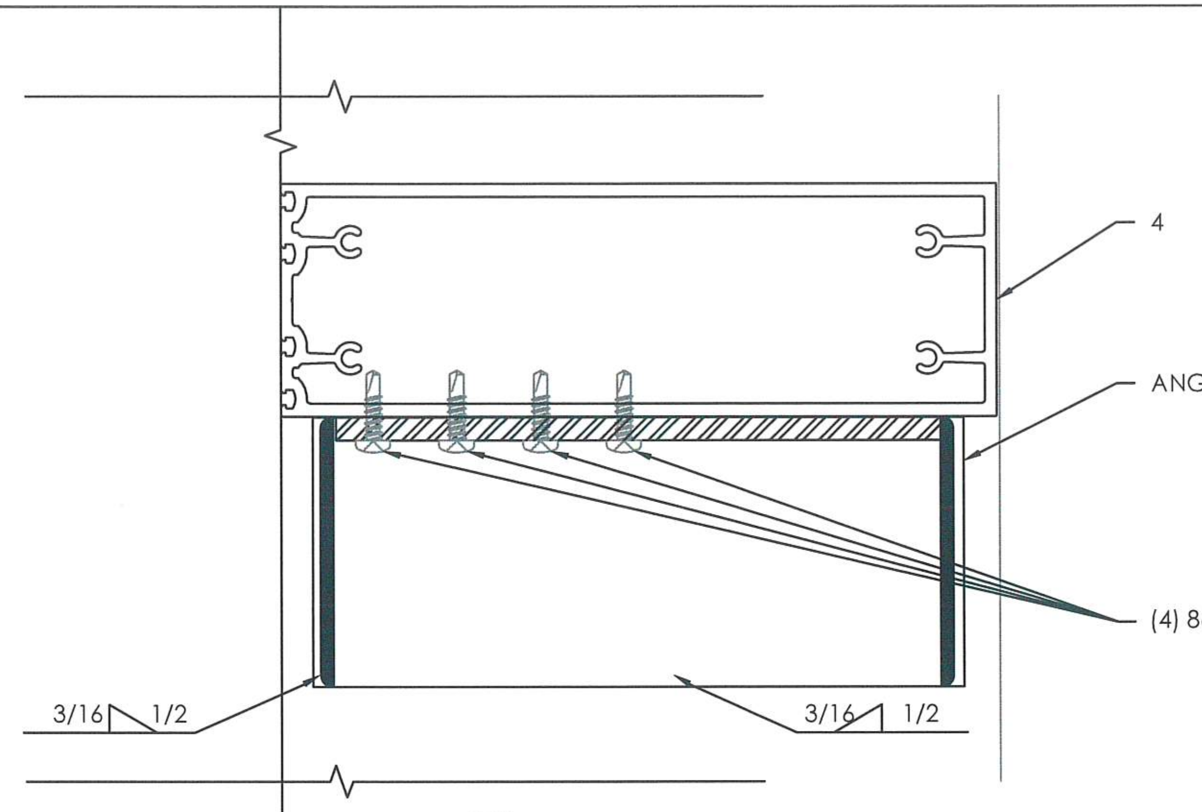
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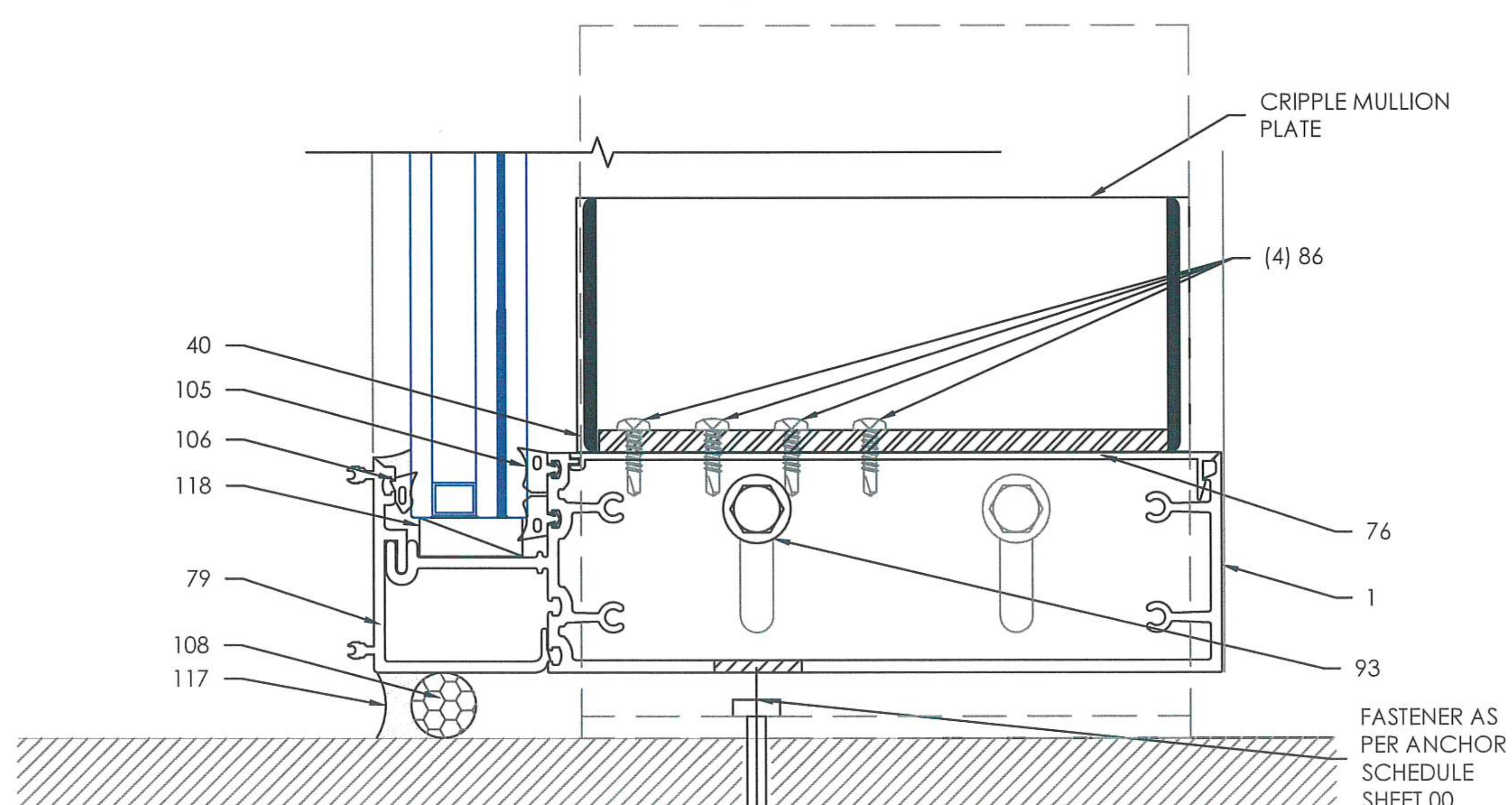


1/16 CRIPPLED MULLION PLAN



2/16 CRIPPLED MULLION SECTION

3/16 CRIPPLED MULLION SECTION



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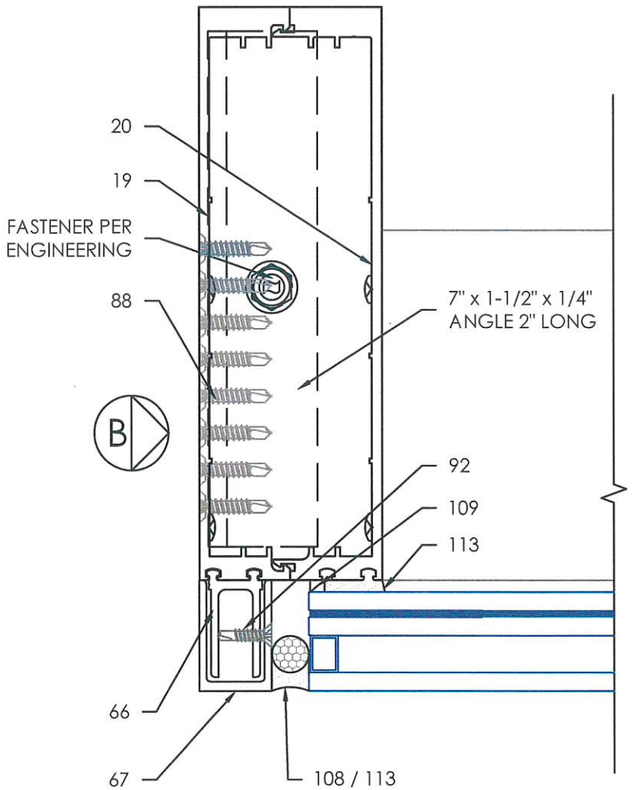
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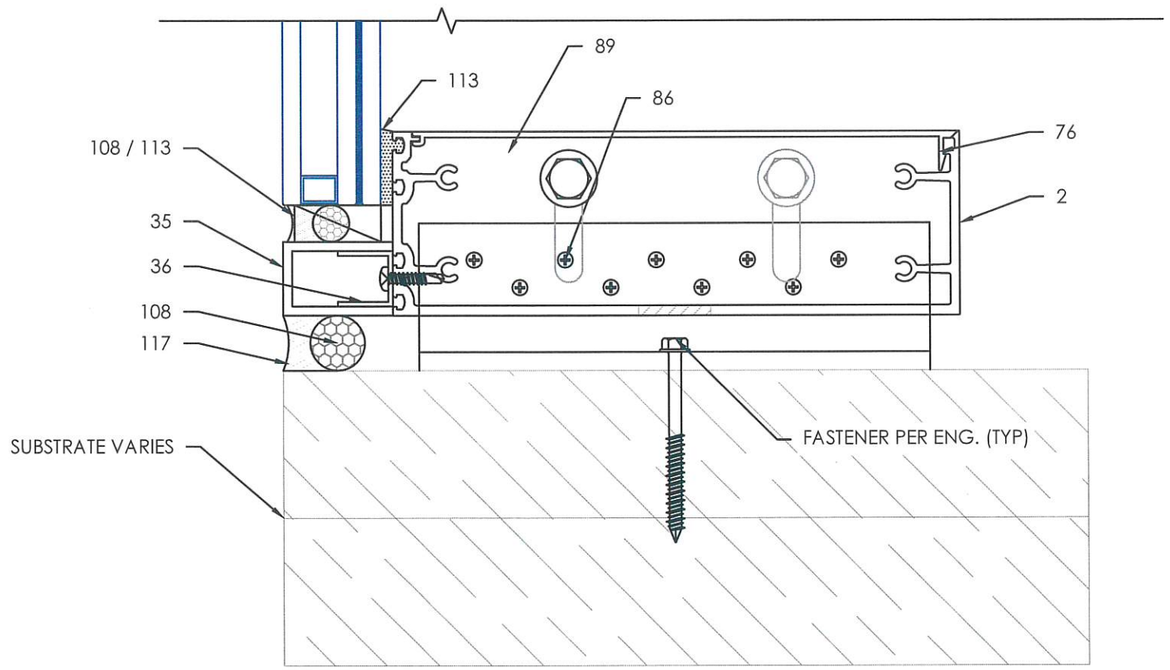
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VIEW B

1/16A **DOOR JAMB** / SILL

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Wolters Engineering, Inc.
(COA #27328)
15211 97th Road N.
West Palm Beach, FL 33412

STATE OF FLORIDA PROFESSIONAL ENGINEER
JUN 20 2025

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	FOR APPROVAL	00	06/20/25
		-	-
		-	-

WEST TAMPA GLASS CO.
SINCE 1934
2705 N. 35TH STREET
TAMPA, FLORIDA 33605
PH. 813-247-5528
FAX. 813-247-6468

This drawing and the contents thereon are the express property of WTG. Use of said drawings and/or contents thereon for purposes other than estimating and/or manufacturing by WTG or use of design concepts shown on said drawings for purposes other than preparing proposal drawings and/or shop drawings by WTG shall be cause for legal recourse by WTG.

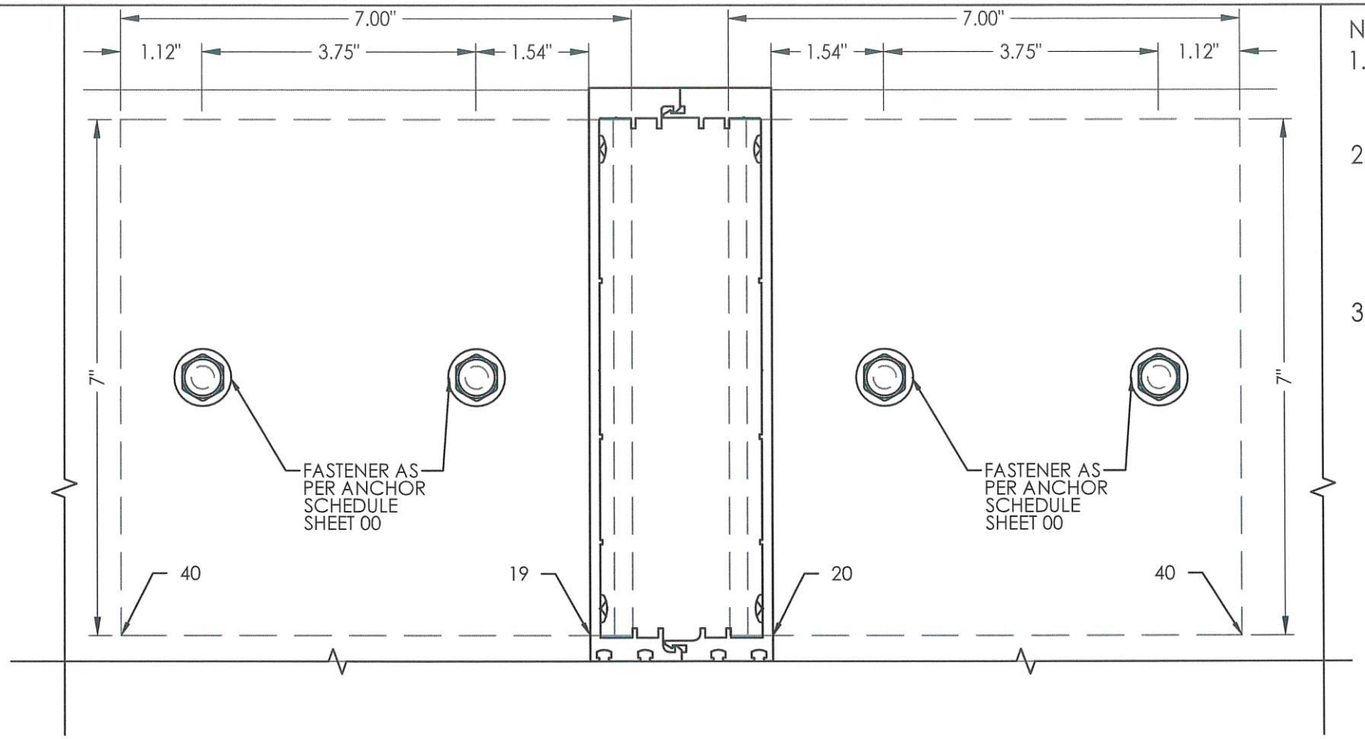
DRAWN BY: KK

SHT: 16A

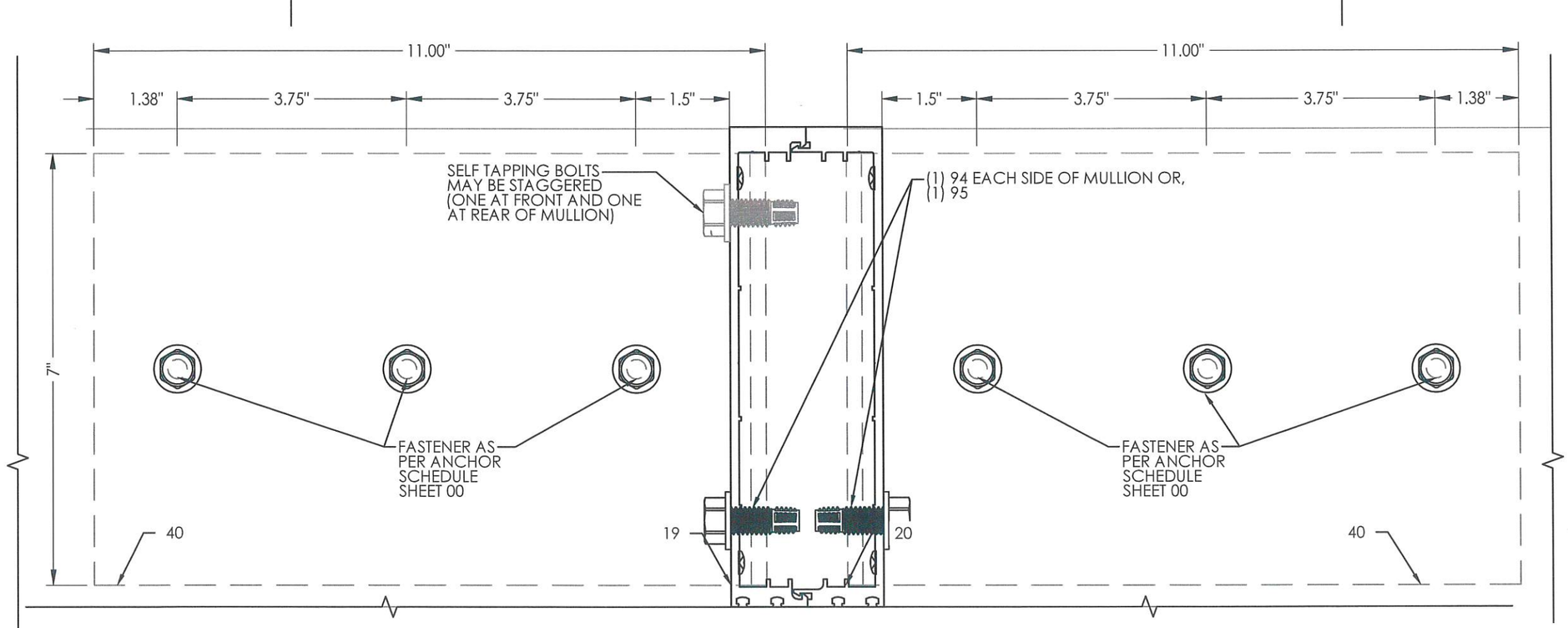
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LAST SAVE: 2025-6-20 KKHAYKHAM

PLOT DATE: 2025-6-20



1/17 C2, S2 ANCHORS



2/17 C3, S3 ANCHORS

NOTES:

1. See anchor chart, cover sheet, for fastener types, embedment, edge distance requirement.
2. Anchoring of curtain wall system to supporting structure is the responsibility of the delegated FL licensed engineer for each project.
3. Dimensions shown as tested and may be modified as specified by FL licensed engineer.

WTG 900 SERIES

SCOTT WOLTERS ENGINEER STATE OF FLORIDA
SCOTT WOLTERS
Wolters Engineering, Inc.
(COA #27198)
15211 97th Road N,
West Palm Beach,
FL 33412
JUN 20 2025
PROFESSIONAL ENGINEER

LAST SAVE: 2025-6-20 KKHAYKHAM

REVISION	DATE	REV. #
DESCRIPTION		
FOR APPROVAL	06/20/25	00
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WEST TAMPA GLASS CO.
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2705 N. 35TH STREET
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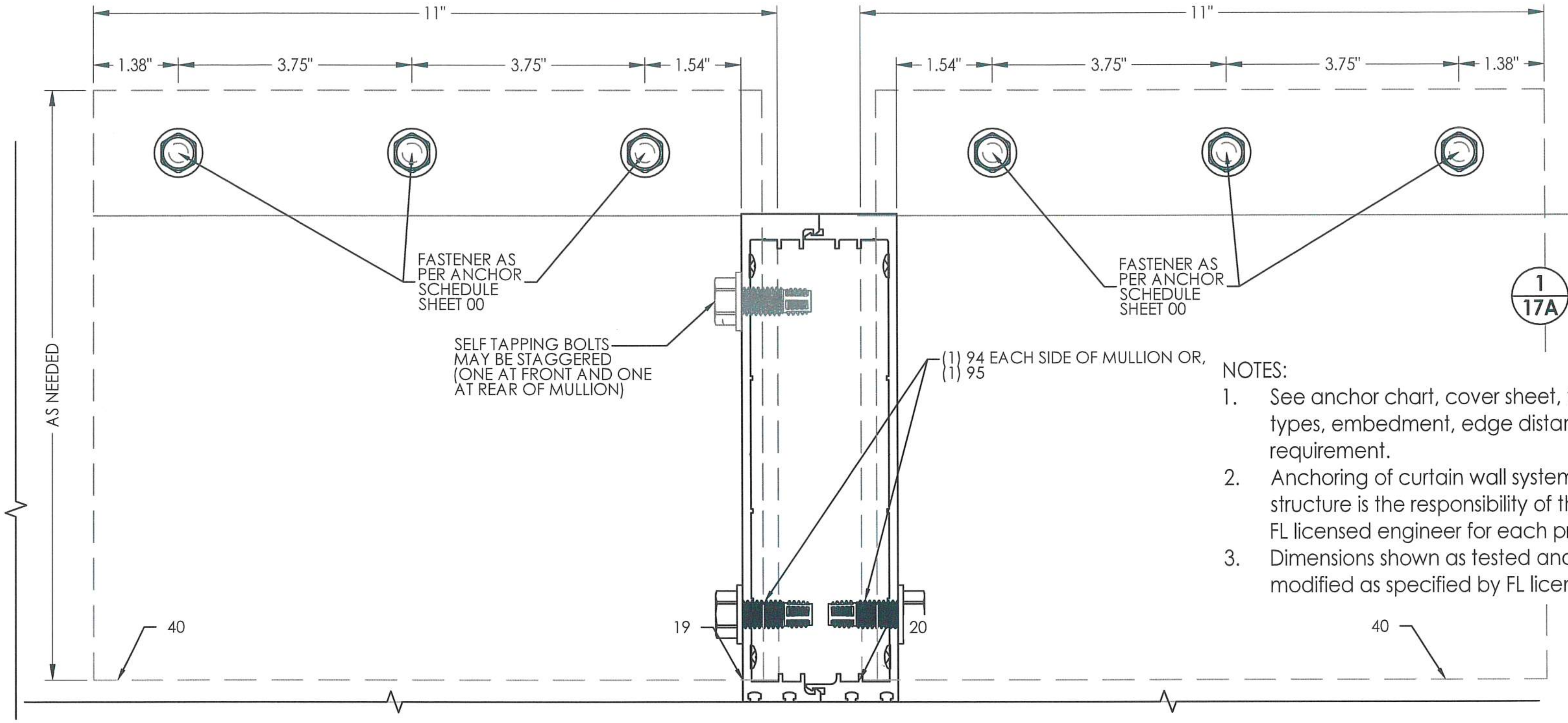
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SHT: 17

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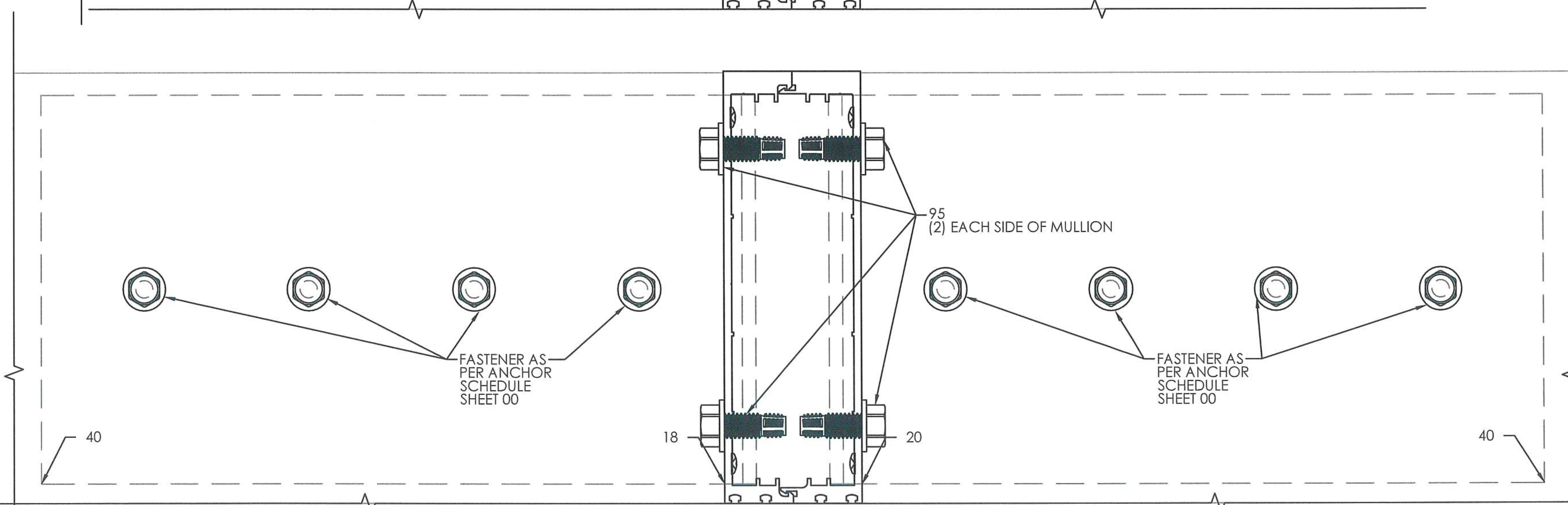
PLOT DATE: 2025-6-20



1/17A C3, S3 ANCHORS

NOTES:

1. See anchor chart, cover sheet, for fastener types, embedment, edge distance requirement.
2. Anchoring of curtain wall system to supporting structure is the responsibility of the delegated FL licensed engineer for each project.
3. Dimensions shown as tested and may be modified as specified by FL licensed engineer.



2/17A C4, S4 ANCHORS

WTG 900 SERIES

ENGINEER
SCOTT WOLTERS
Wolters Engineering, Inc.
15211 97th Road N,
West Palm Beach,
FL 33412

JUN 20 2025

REVISION		
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WEST TAMPA GLASS CO. SINCE 1934
2705 N. 35TH STREET
TAMPA, FLORIDA 33605
PH. 813-247-5528
FAX. 813-247-6468

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SHT: 17A 0

LAST SAVE: 2025-6-20 KKHAYKHAM

PLOT DATE: 2025-6-20

SINGLE SPAN MULLION CHART							
		ALLOWABLE DESIGN PRESSURE (psf)					
		CAPTURED MULLION WTG-914/915			SSG MULLION 914BG/915BG		
HEIGHT (in)	WIDTH (in)	NO STEEL REINF. (+/-)	STEEL REINF. #4 (+/-)	STEEL REINF. #10 (+/-)	NO STEEL REINF. (+/-)	STEEL REINF. #4 (+/-)	STEEL REINF. #10 (+/-)
144	42	125	130	130	119	130	130
	48	113.5	130	130	104.1	130	130
	54	100.9	130	130	92.6	130	130
	60	90.8	120.9	130	83.3	120.9	130
	72	75.6	100.8	130	-	100.8	130
	80	68.1	90.7	122.4	-	90.7	122.4
	96	-	-	102	-	-	102
156	42	110.6	130	130	101.4	130	130
	48	96.7	119.9	130	88.7	119.9	130
	54	86	106.6	130	78.9	106.6	130
	60	77.4	95.9	130	-	95.9	130
	74	62.7	77.8	122.1	-	77.8	122.1
	84	-	-	107.6	-	-	107.6
	96	-	-	94.1	-	-	94.1
168	36	111.1	128	130	102	128	130
	42	95.3	109.7	130	87.4	109.7	130
	48	83.4	96	130	76.5	96	130
	54	74.1	85.3	130	-	85.3	130
	60	66.7	76.8	130	-	76.8	130
	69	58	66.8	121.6	-	66.8	121.6
	72	-	-	116.5	-	-	116.5
	84	-	-	99.9	-	-	99.9
	96	-	-	87.4	-	-	87.4
180	36	94.9	104.1	130	88.9	104.1	130
	42	81.3	89.2	130	76.2	89.2	130
	48	71.2	78.1	130	66.7	78.1	130
	54	63.3	69.4	130	-	69.4	130
	60	56.9	62.4	130	-	62.4	130
	64	53.4	58.5	125	-	58.5	125
	72	-	-	111.1	-	-	111.1
	84	-	-	95.2	-	-	95.2
	96	-	-	83.3	-	-	83.3
192	36	83.5	85.6	130	75.8	85.8	130
	42	71.6	73.4	130	65	73.5	130
	48	62.6	64.2	130	-	64.3	130
	54	55.6	57.1	130	-	57.2	130
	60	50.1	51.4	122.4	-	51.4	122.4
	72	-	-	102	-	-	102
	84	-	-	87.4	-	-	87.4
	96	-	-	76.5	-	-	-
216	36	58.5	61.7	130	53.1	61.6	90
	40	52.7	55.5	130	47.8	55.5	130
	48	43.8	45.2	112.5	-	45.2	112.5
	54	39	40.1	100	-	40.1	100
	60	-	-	**90**	-	-	**90**
	72	-	-	75	-	-	75
	84	-	-	64.3	-	-	-
	96	-	-	56.2	-	-	-

SINGLE SPAN MULLION CHART							
		ALLOWABLE DESIGN PRESSURE (psf)					
		CAPTURED MULLION WTG-914/915			SSG MULLION 914BG/915BG		
HEIGHT (in)	WIDTH (in)	NO STEEL REINF. (+/-)	STEEL REINF. #4 (+/-)	STEEL REINF. #10 (+/-)	NO STEEL REINF. (+/-)	STEEL REINF. #4 (+/-)	STEEL REINF. #10 (+/-)
240	36	42.6	50	130	38.8	50	114
	42	36.5	37.6	113.8	-	37.6	97.7
	48	31.9	32.9	99.6	-	32.9	85.5
	54	-	-	88.5	-	-	76
	60	-	-	79.7	-	-	68.4
	72	-	-	66.4	-	-	57
	86	-	-	55.6	-	-	-
264	36	32.1	33	115.7	-	33	94
	42	27.5	28.3	99.1	-	28.3	80.7
	48	-	-	86.7	-	-	70.6
	54	-	-	77.1	-	-	62.8
	60	-	-	69.4	-	-	56.5
	66	-	-	63.1	-	-	51.4
	72	-	-	57.8	-	-	-
	78	-	-	53.4	-	-	-
288	36	24.6	25.4	95	-	25.4	79.1
	40	22.1	22.8	85.5	-	22.8	71.2
	42	-	-	81.4	-	-	67.8
	48	-	-	71.2	-	-	59.4
	54	-	-	63.3	-	-	52.8
	60	-	-	57	-	-	**47.5**
	66	-	-	51.8	-	-	-
	72	-	-	**47.5**	-	-	-
312	36	-	20	74.7	-	20	62.2
	42	-	-	64	-	-	53.3
	48	-	-	56	-	-	46.7
	54	-	-	49.8	-	-	41.5
	60	-	-	44.8	-	-	-
	66	-	-	40.7	-	-	-
336	36	-	-	59.8	-	-	49.8
	42	-	-	51.2	-	-	42.7
	48	-	-	44.8	-	-	37.4
	51	-	-	42.2	-	-	35.2
	54	-	-	39.9	-	-	-
	61	-	-	35.3	-	-	-
360	36	-	-	48.6	-	-	40.5
	42	-	-	41.7	-	-	34.7
	48	-	-	36.5	-	-	30.4
	54	-	-	32.4	-	-	-
	57 1/2	-	-	30.4	-	-	-

NOTE :
SHADED VALUES ARE APPROVED FOR USE OUTSIDE OF THE HVHZ ONLY.

REINFORCEMENT LEGEND
⟨0⟩ NO REINFORCEMENT
⟨2⟩ (1) 1/4" STEEL BARS
⟨4⟩ (2) 1/4" STEEL BARS
⟨6⟩ (3) 1/4" STEEL BARS
⟨8⟩ (4) 1/4" STEEL BARS
⟨10⟩ (2) 1/4" + (2) 3/8" STEEL BARS
NOTE: STEEL DEPTH DETERMINED BY SYSTEM. WTG-700 = 4" WTG-900 = 7"

WTG 900 SERIES

ENGINEER SCOTT WOLTERS
Wolters Engineering, Inc. (COA #27198)
15211 97th Road N, West Palm Beach, FL 33412
STATE OF FLORIDA PROFESSIONAL ENGINEER
JUN 20 2025

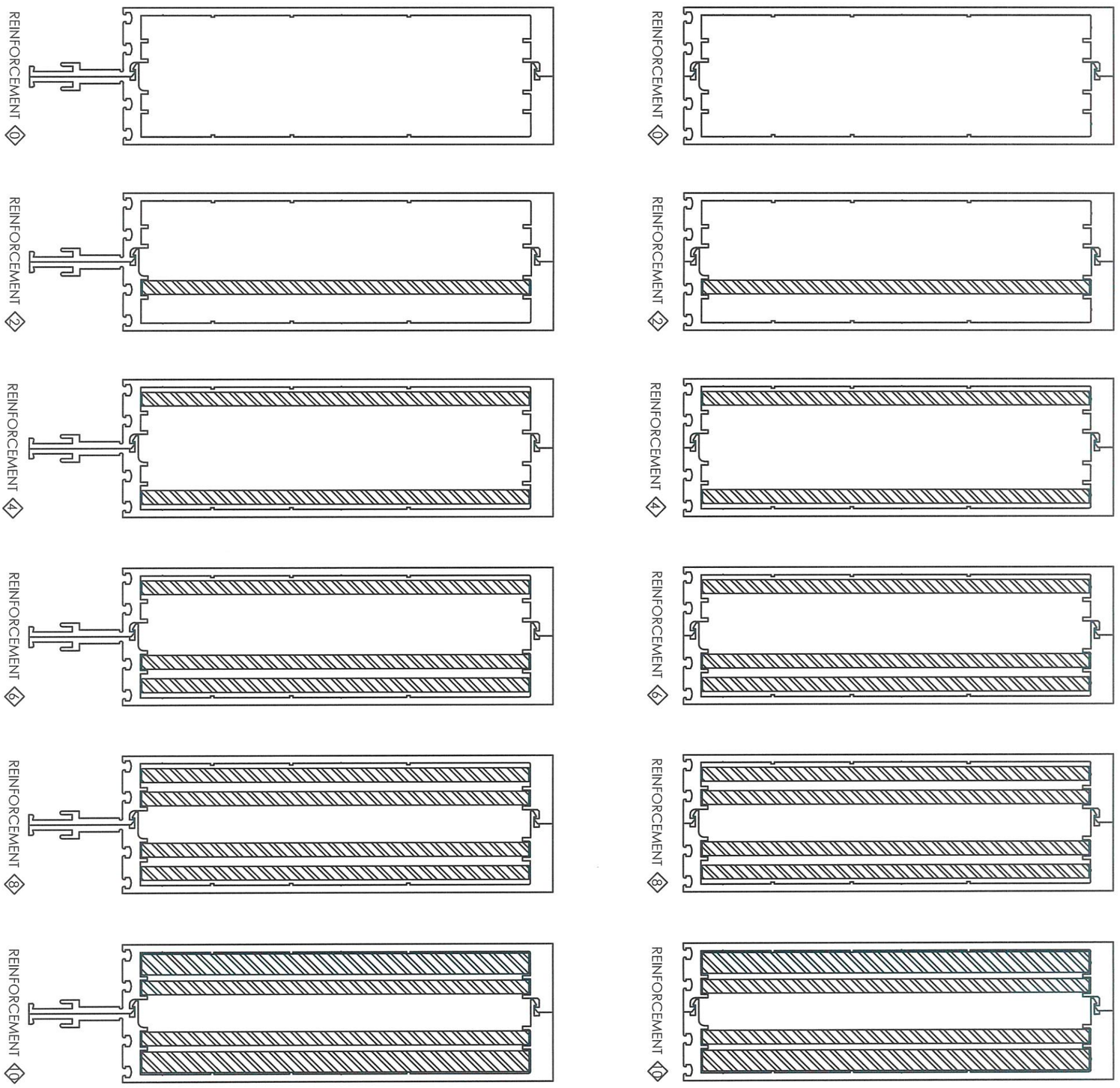
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LAST SAVE: 2025-6-20 KKHAYKHAM
PLOT DATE: 2025-6-20



SHT: 18A

DRAWN BY: KK

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ENGINEER
SCOTT T. WOLTERS
Wolters Engineering, Inc.
(COA # 27198)
15211 97th Road N,
West Palm Beach,
FL 33412

SCOTT T. WOLTERS
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JUN 20 2025

WTG 900 SERIES

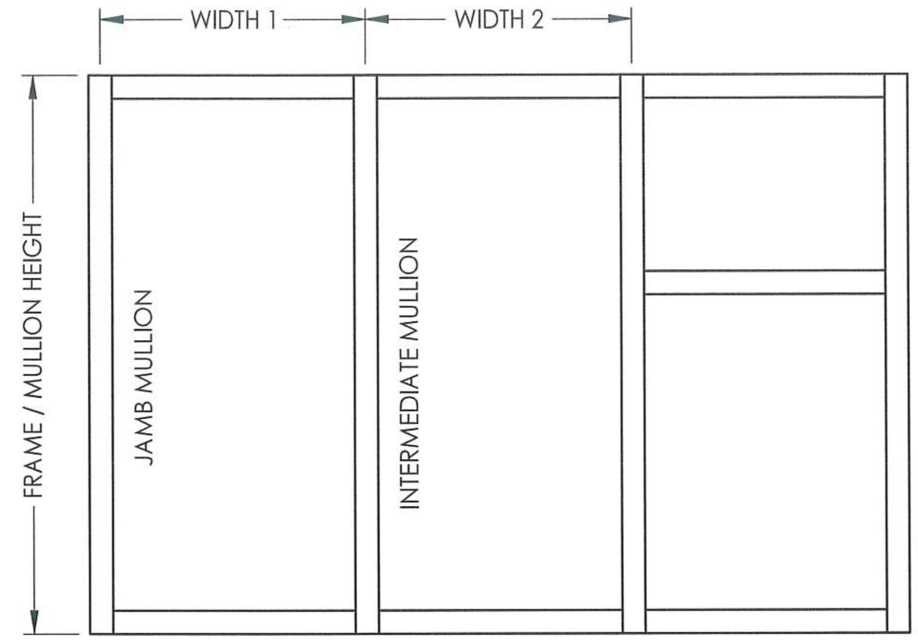
PLOT DATE: 2025-6-20

LAST SAVE: 2025-6-20 KKHAYKHAM

SINGLE SPAN JAMB MULLION CHART							
		ALLOWABLE DESIGN PRESSURE (psf)					
		CAPTURED MULLION WTG-906D				CAPT. MULLION WTG-914/915	SSG MULLION WTG-906BG
HEIGHT (in)	WIDTH (in)	NO STEEL REINF. (+/-)	STEEL REINF. #2 (+/-)	STEEL REINF. #4 (+/-)	STEEL REINF. #10 (+/-)	NO STEEL REINF. (+/-)	NO STEEL REINF. (+/-)
144	42	125	125	130	130	90	90
	48	113.5	113.5	130	130	90	90
	54	100.9	100.9	130	130	90	90
	60	90.8	90.8	130	130	90	90
	72	75.7	75.7	125	130	90	-
	80	68.1	68.1	122.4	122.4	90	-
	90	-	-	-	108.8	90	-
	96	-	-	-	102	-	-
156	42	110.6	110.6	130	130	90	90
	48	96.7	96.7	130	130	90	90
	54	86	86	130	130	90	78.6
	60	77.4	77.4	125	130	90	-
	74	62.7	62.7	122.1	122.1	90	-
	83	-	-	-	108.8	90	-
	96	-	-	-	94.1	-	-
168	42	95.3	95.3	130	130	90	80.9
	48	83.4	83.4	130	130	90	70.8
	54	74.1	74.1	125	130	90	-
	60	66.7	66.7	125	130	90	-
	69	58	58	121.6	121.6	90	-
	72	-	-	-	116.5	90	-
	77	-	-	-	109	90	-
	84	-	-	-	99.9	-	-
	96	-	-	-	87.4	-	-
180	36	96.9	121.4	130	130	90	87.7
	42	83	104	130	130	90	75.2
	48	72.7	91	130	130	90	65.8
	54	64.6	80.9	125	130	90	-
	60	58.1	72.8	125	130	90	-
	64	54.5	68.3	122.4	122.4	90	-
	72	-	-	-	108.8	90	-
	84	-	-	-	93.2	-	-
	96	-	-	-	81.6	-	-
192	36	93.7	93.7	130	130	90	63.2
	42	71.4	71.4	130	130	90	54.2
	48	70.3	70.3	125	130	90	-
	54	62.5	62.5	125	130	90	-
	60	50	50	122.4	122.4	90	-
	66	-	-	-	111.2	87	-
	72	-	-	-	102	-	-
	84	-	-	-	87.4	-	-
	96	-	-	-	76.5	-	-
216	36	60.5	61.7	130	130	90	44.4
	40	54.5	55.5	128.9	130	90	40
	48	45.4	46.3	107.4	126.6	84.3	-
	54	40.3	41.1	95.5	112.6	75	-
	60	-	-	-	101.3	67.5	
	72	-	-	-	84.4	-	-
	84	-	-	-	72.4	-	-
	96	-	-	-	63.3	-	-

SINGLE SPAN JAMB MULLION CHART							
		ALLOWABLE DESIGN PRESSURE (psf)					
		CAPTURED MULLION WTG-906D				CAPT. MULLION WTG-914/915	SSG MULLION WTG-906BG
HEIGHT (in)	WIDTH (in)	NO STEEL REINF. (+/-)	STEEL REINF. #2 (+/-)	STEEL REINF. #4 (+/-)	STEEL REINF. #10 (+/-)	NO STEEL REINF. (+/-)	NO STEEL REINF. (+/-)
240	36	44.1	50	104.4	130	82	32.4
	42	37.8	42.8	89.5	117.2	70.3	-
	48	33.1	37.5	78.3	102.6	61.5	-
	54	-	-	-	91.2	54.6	-
	60	-	-	-	82.1	-	-
	72	-	-	-	68.4	-	-
	86	-	-	-	57.2	-	-
264	36	33.1	37.5	78.4	113	61.6	-
	44	27.1	30.7	64.2	92.5	50.4	-
	48	-	-	-	84.8	46.2	-
	54	-	-	-	75.3	-	-
	60	-	-	-	67.8	-	-
	66	-	-	-	61.6	-	-
	72	-	-	-	56.5	-	-
	78	-	-	-	52.2	-	-
288	36	25.5	28.9	60.4	95	47.4	-
	40	23	26	54.4	85.5	42.7	-
	48	-	-	-	71.2	-	-
	54	-	-	-	63.3	-	-
	60	-	-	-	57	-	-
	66	-	-	-	51.8	-	-
	72	-	-	-	47.5	-	-
312	36	-	-	47.5	74.7	37.3	-
	42	-	-	-	64	32	-
	48	-	-	-	56	-	-
	54	-	-	-	49.8	-	-
	60	-	-	-	44.8	-	-
	66	-	-	-	40.7	-	-
336	36	-	-	-	59.8	29.9	-
	42	-	-	-	51.3	-	-
	48	-	-	-	44.8	-	-
	51	-	-	-	42.2	-	-
	54	-	-	-	39.9	-	-
	61	-	-	-	35.3	-	-
360	36	-	-	-	48.6	-	-
	42	-	-	-	41.7	-	-
	48	-	-	-	36.5	-	-
	54	-	-	-	32.4	-	-
	57 1/2	-	-	-	30.4	-	-

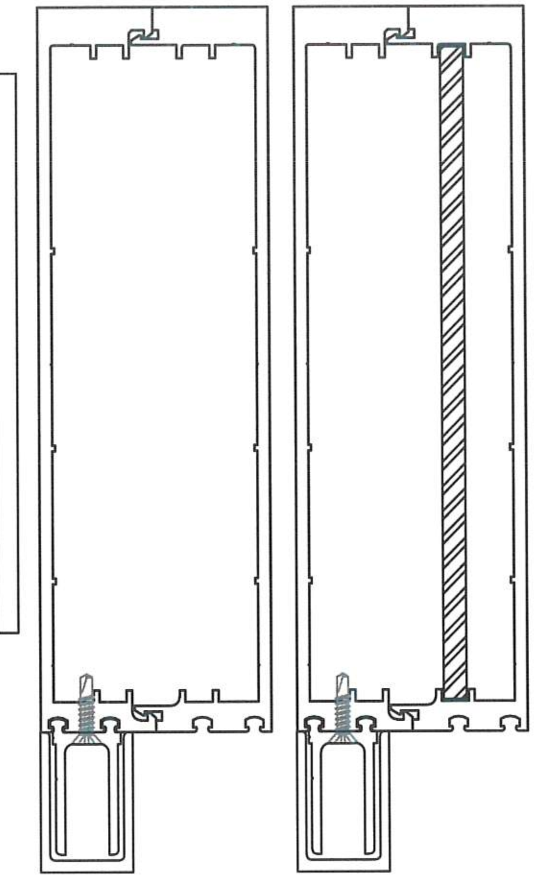
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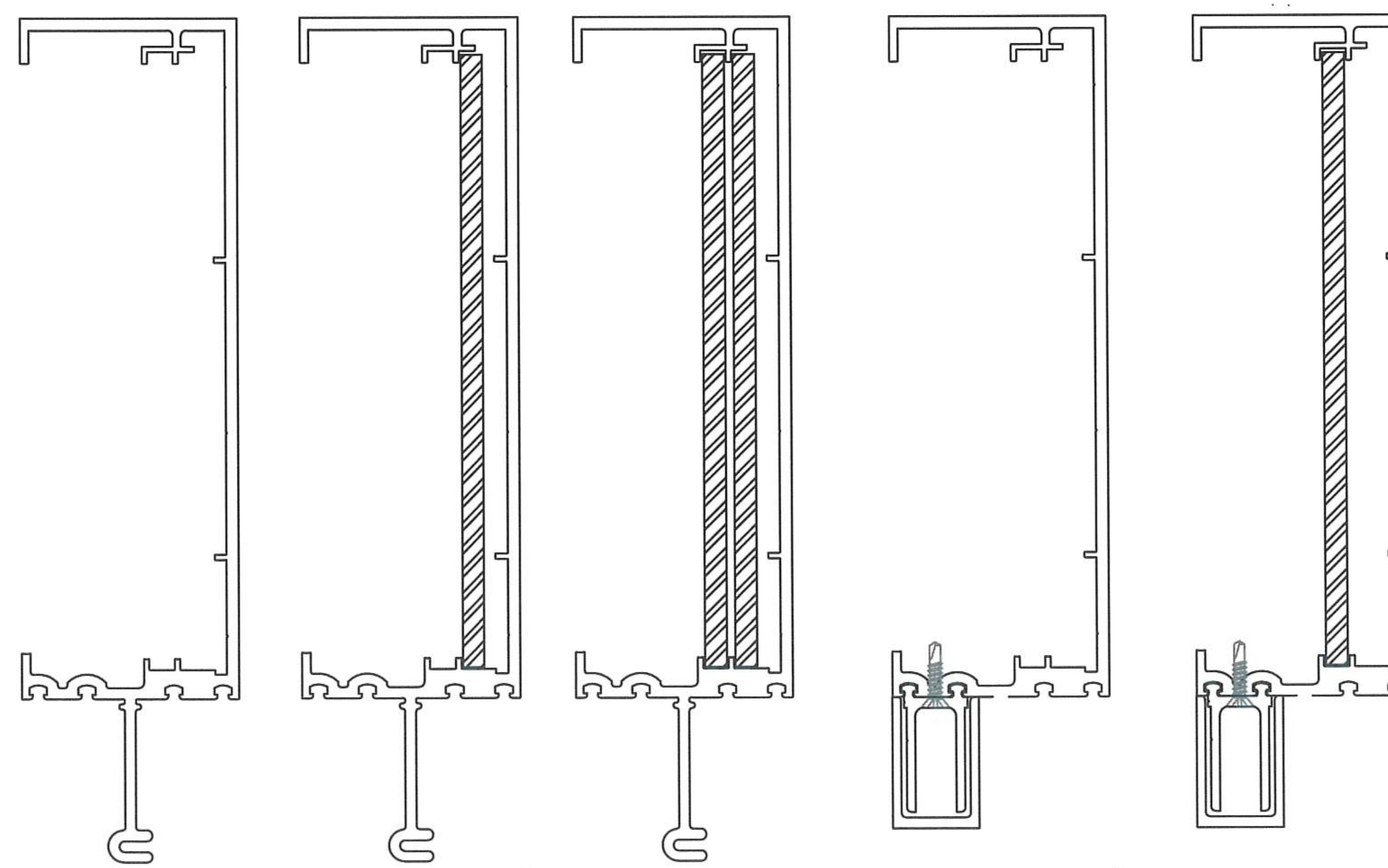
JAMB MULLION SPACING = WIDTH

INTERMEDIATE MULLION SPACING = $\frac{\text{WIDTH 1 + WIDTH 2}}{2}$

NOTE :
JAMB MULLION DEFLECTIONS AND CAULK JOINT WIDTHS MUST MEET THE MANUFACTURE'S RECOMMENDATIONS AND ASTM C1472.



REINFORCEMENT ⟨0⟩ REINFORCEMENT ⟨2⟩



REINFORCEMENT ⟨0⟩ REINFORCEMENT ⟨2⟩ REINFORCEMENT ⟨4⟩ REINFORCEMENT ⟨0⟩ REINFORCEMENT ⟨2⟩

WTG 900 SERIES

Wolters Engineering, Inc.
15211 97th Road N,
West Palm Beach,
FL 33412
JUN 20 2025

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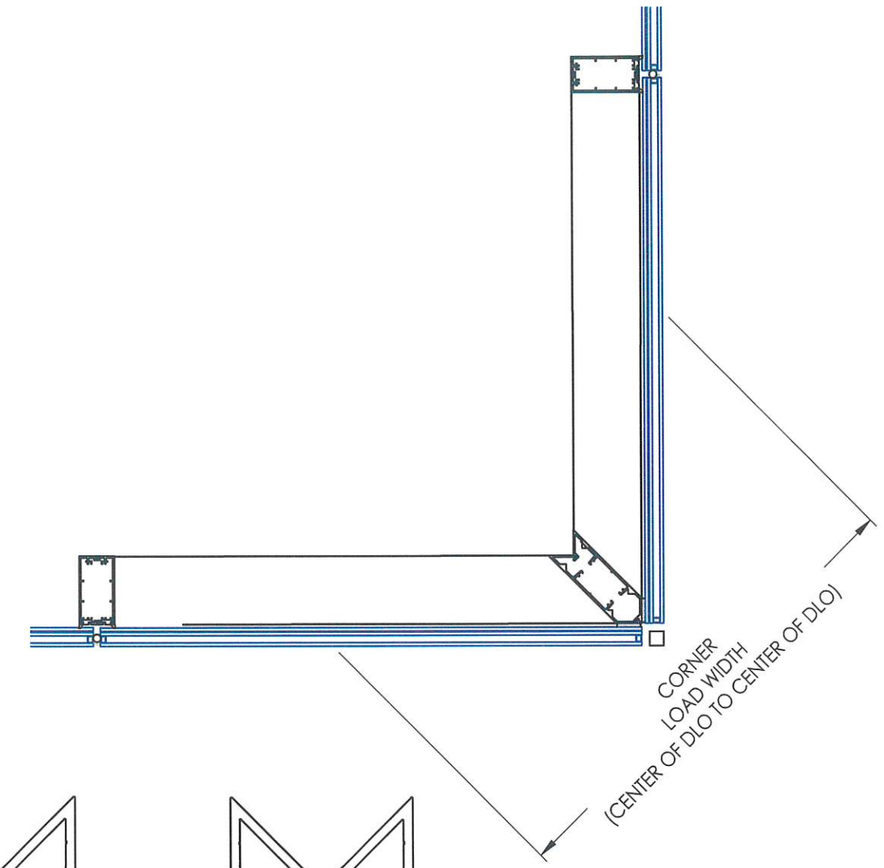
SHT: 18B ⟨0⟩

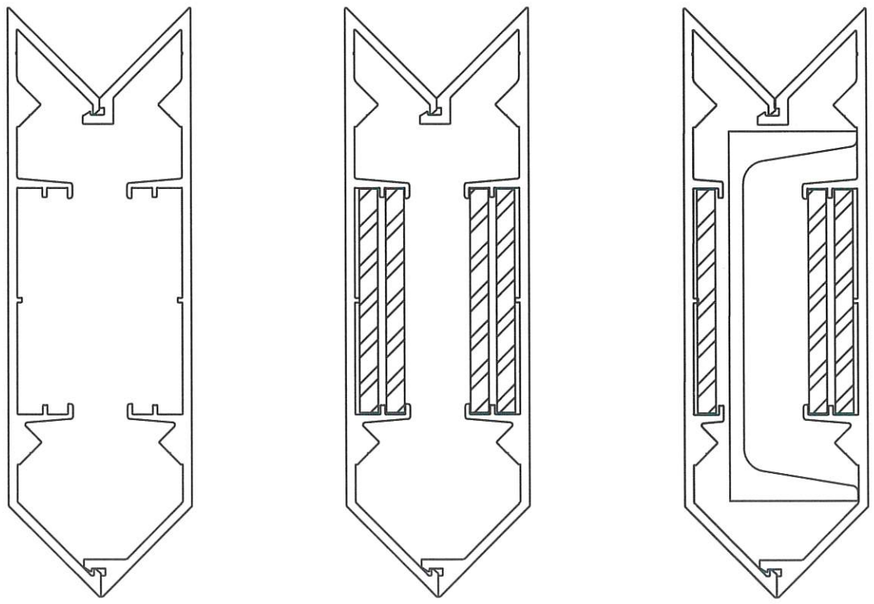
LAST SAVE: 2025-6-20 KKHAYKHAM

PLOT DATE: 2025-6-20

SINGLE SPAN CORNER MULLION CHART			
ALLOWABLE DESIGN PRESSURE (psf)			
		CORNER MULLION WTG-717/718	
		STEEL REINF.	STEEL REINF.
HEIGHT (in)	WIDTH (in)	#8 (+/-)	#C (+/-)
96	54	90	90
	69	90	90
108	48	90	90
	61 1/4	90	90
120	48	90	90
	55 1/4	90	90
132	42	90	90
	50	90	90
144	36	90	90
	46	90	90
154 1/2	33 1/2	78.3	90
	34 1/2	76	90
	42 3/4	61.3	72.6
168	30 3/4	66.3	78.5
	31 3/4	64.3	76
	39 1/4	52	51.5
180	28 3/4	57.5	68.3
	29 1/2	56.2	66.5
	36 3/4	45.1	53.4
192	27	50.6	59.9
	27 3/4	49.2	58.3
	34 1/2	39.6	46.9

CORNER MULLION WIDTH IS THE PROJECTED WIDTH PERPENDICULAR TO THE CORNER MULLION.





REINFORCEMENT ◇0 REINFORCEMENT ◇8 REINFORCEMENT ◇C

CORNER MULLION
REINFORCEMENT STEEL
3" x 1/4" STEEL BARS

WTG 900 SERIES

LAST SAVE: 2025-6-20 KKHAYKHAM

SCOTT WOLTERS ENGINEER
Wolters Engineering, Inc.
15211 97th Road N,
West Palm Beach,
FL 33412
(COA # 27198)
STATE OF
PROFESSIONAL ENGINEER
JUN 20 2025

REVISION	DATE	REV. #
DESCRIPTION		
FOR APPROVAL	06/20/25	00
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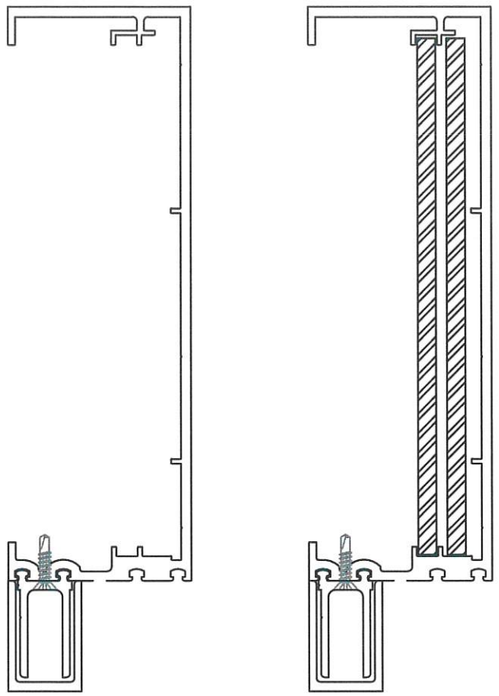
WEST TAMPA GLASS CO.
SINCE 1934
2705 N. 35TH STREET
TAMPA, FLORIDA 33605
PH. 813-247-5528
FAX. 813-247-6468

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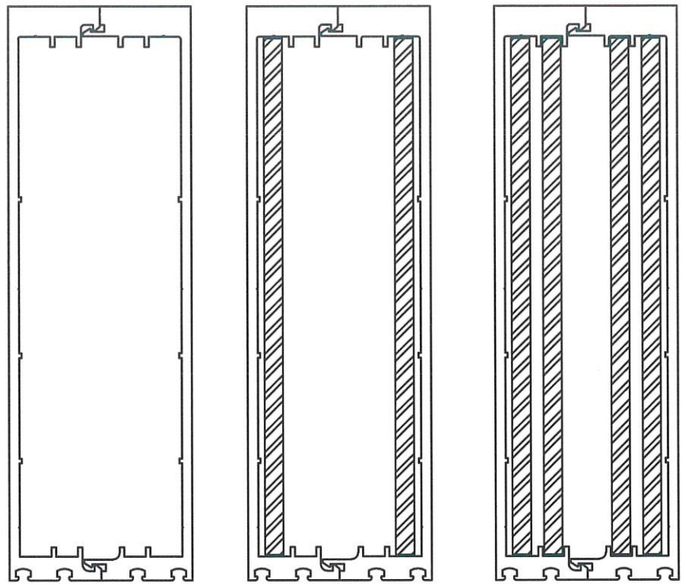
DRAWN BY: KK

SHT: 18C ◇0

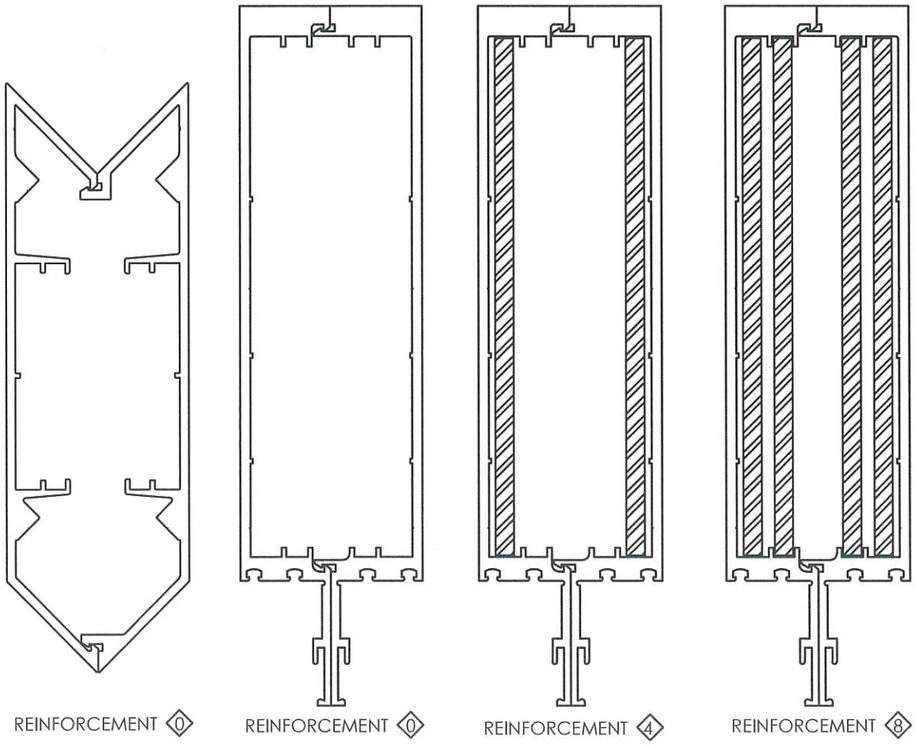
PLOT DATE: 2025-6-20



REINFORCEMENT ◇0 REINFORCEMENT ◇2



REINFORCEMENT ◇0 REINFORCEMENT ◇4 REINFORCEMENT ◇8



REINFORCEMENT ◇0 REINFORCEMENT ◇0 REINFORCEMENT ◇4 REINFORCEMENT ◇8

MULTI-SPAN MULLION LIMITATIONS

VERTICAL MULLIONS MUST MEET ALL OF THE FOLLOWING REQUIREMENTS:

1. MAX. WINDLOAD = +/- 90 psf.
2. MAX. DEFLECTION = L/180.
3. MAX. TRIB. AREA FOR:
   - CAPT'D or SSG MULLION = 102.6 ft^2.
   - CAPT'D or SSG JAMB = 53.3 ft^2.
   - CORNER MULLION = 50 ft^2.
4. IN THE HVHZ, THE MAXIMUM ANCHOR-TO-ANCHOR SPAN FOR:
   - CAPT'D or SSG MULLIONS = 224 in
   - CAPT'D or SSG JAMBS = 224 in
   - CORNER MULLIONS = 144 in.
5. MAX. BENDING MOMENTS:
   - CAPT'D or SSG MULLION WITH:
     - NO STEEL = 137,214 in-lb.
     - #8 REINF. = 225,365 in-lb.
   - CAPT'D or SSG JAMB WITH:
     - NO STEEL = 70,253 in-lb.
     - # 4 REINF. = 116,971 in-lb.
   - CORNER MULLION WITH:
     - NO STEEL = 74,260 in-lb.
6. MAX. WINDLOAD REACTION AT:
   - HEAD/SILL ANCHOR: 4900 lb.
   - MID-SPAN ANCHOR: 8708 lb.

MULTI-SPAN NOTES:

1. MULLION TRIB. AREA IS THE SPAN-TO-SPAN ANCHOR HEIGHT x MULLION SPACING.
2. CORNER MULLION TRIB. AREA IS BASED ON THE PROJECTED AREA PERPENDICULAR TO MULLION, FROM CENTER OF DLO TO CENTER OF DLO.
3. OUTSIDE OF THE HVHZ, THE ANCHOR-TO-ANCHOR SPANS ARE UNLIMITED. (MULLIONS MUST MEET ALL OTHER CRITERIA)

WTG 900 SERIES

SCOTT WOLTERS ENGINEER STATE OF FLORIDA PROFESSIONAL ENGINEER

Wolters Engineering, Inc.
15211 97th Road N,
West Palm Beach,
FL 33412
(COA #27198)

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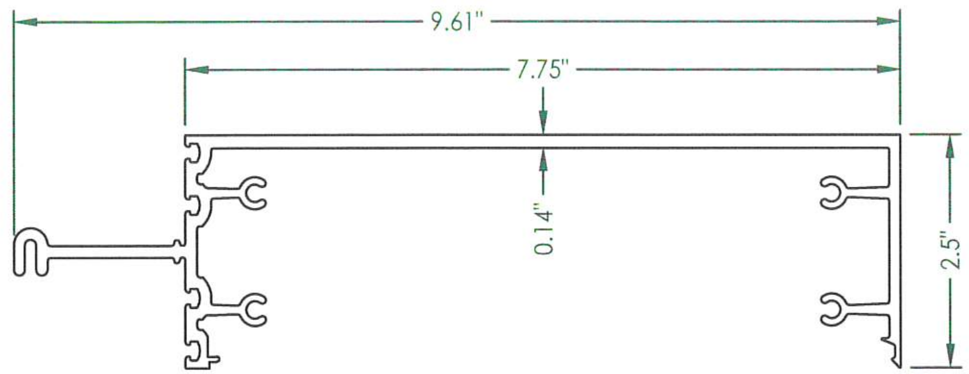
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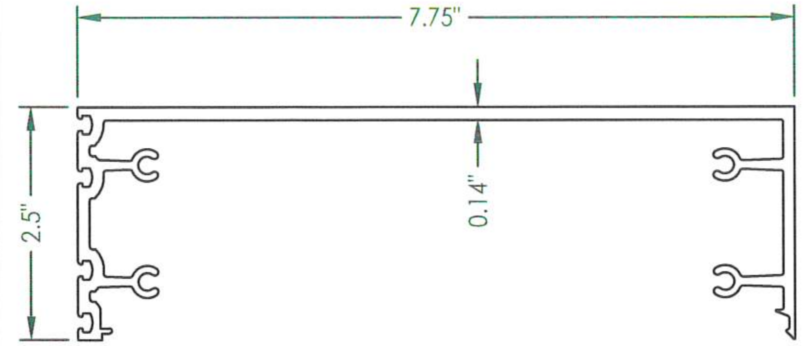
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PLOT DATE: 2025-6-20

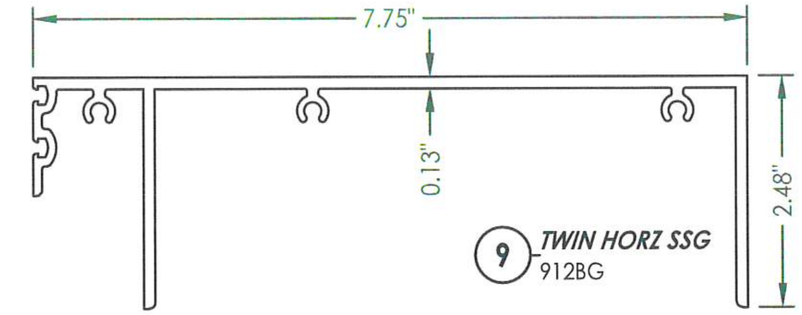
LAST SAVE: 2025-6-20 KKHAYKHAM



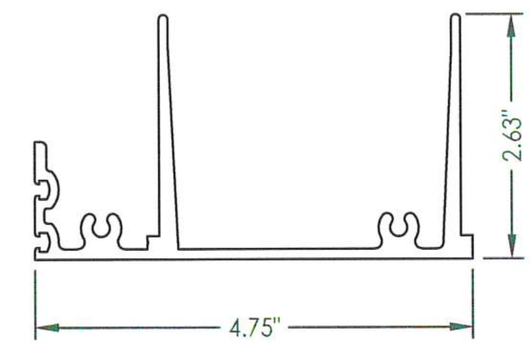
1 HEAD\SILL\HORZ
900



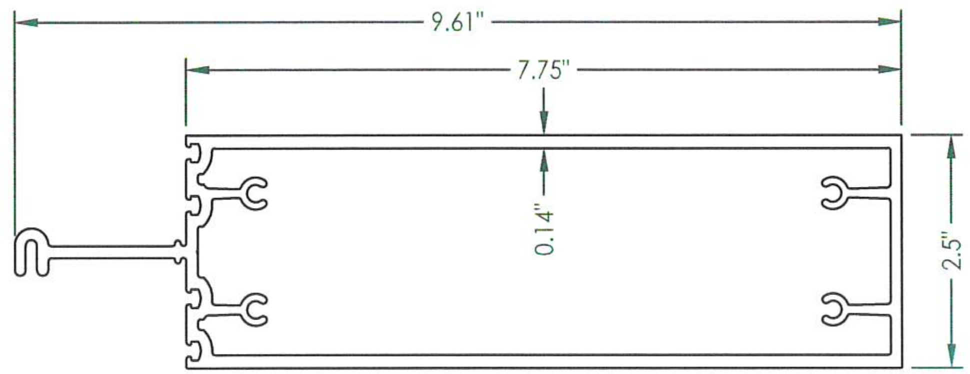
2 HEAD\SILL\HORZ SSG
900BG



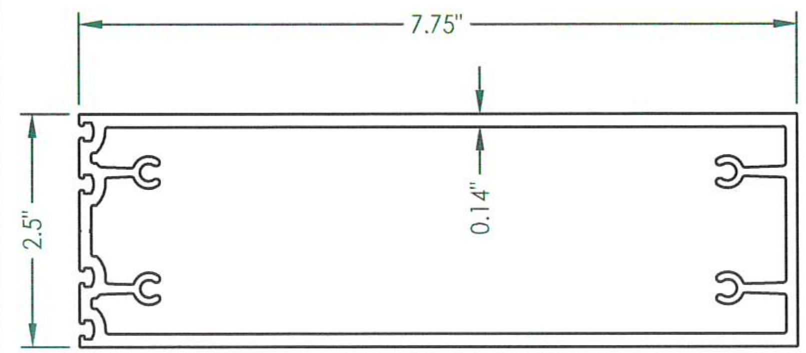
9 TWIN HORZ SSG
912BG



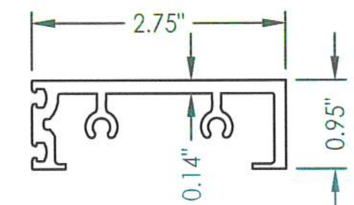
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713BG



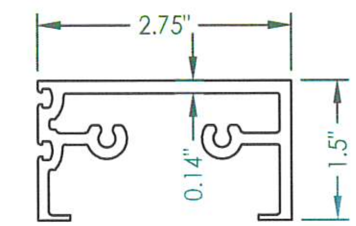
3 HEAD\SILL\HORZ
901



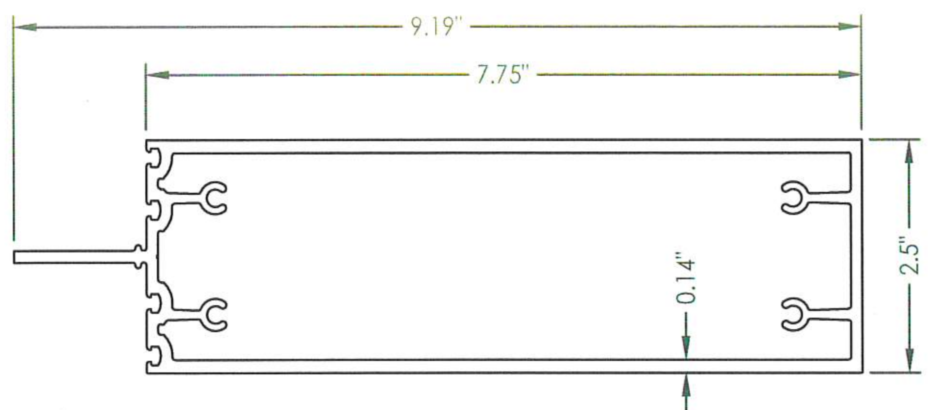
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901BG



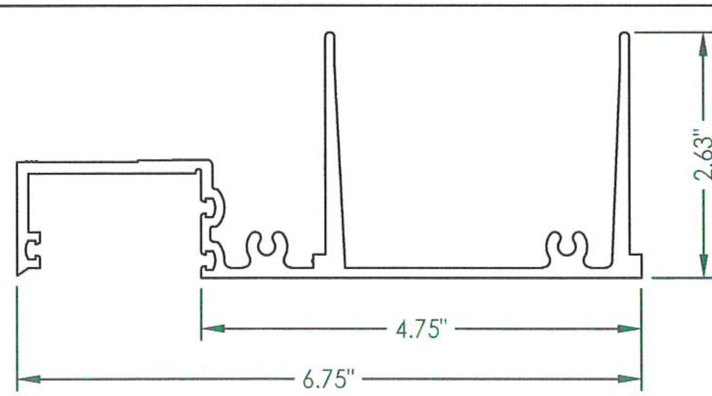
11 TWIN HORZ
540



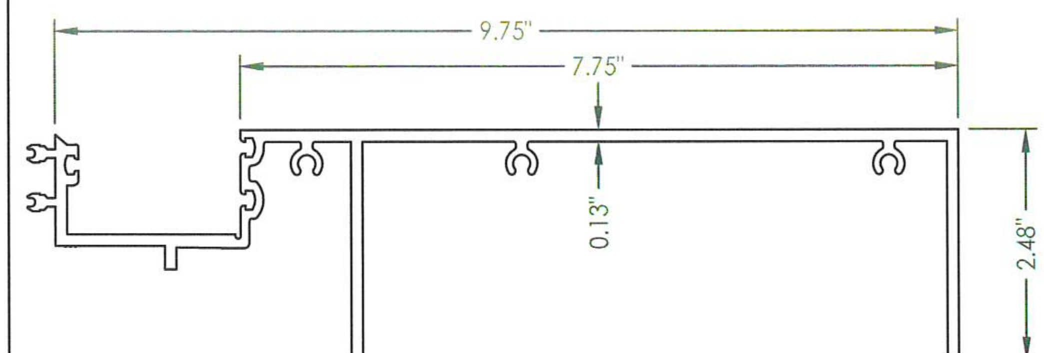
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541



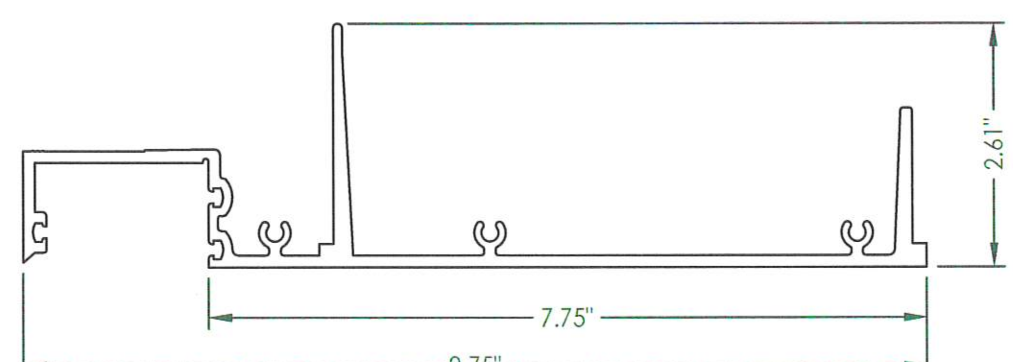
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901A



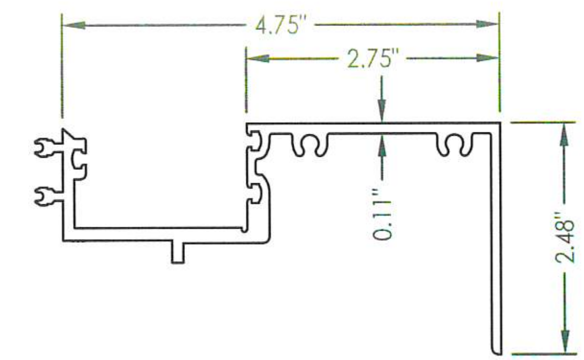
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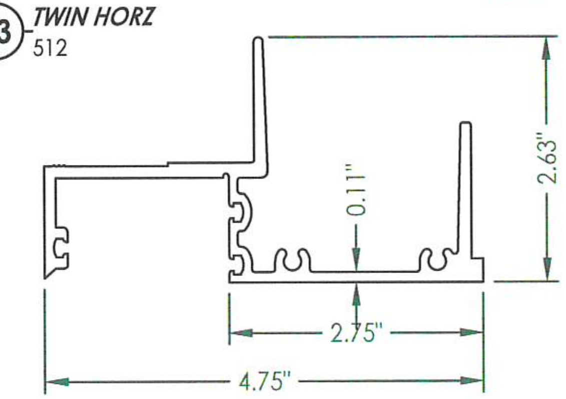
7 TWIN HORZ
912



8 TWIN HORZ
913



13 TWIN HORZ
512



14 TWIN HORZ
513

WTG 900 SERIES

ENGINEER
SCOTT WOLTERS
FL PE #62354
Wolters Engineering, Inc.
(COA #27158)
15211 97th Road N,
West Palm Beach,
FL 33412

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WEST TAMPA GLASS CO.
SINCE 1934
2705 N. 35TH STREET
TAMPA, FLORIDA 33605
PH. 813-247-5528
FAX. 813-247-6468

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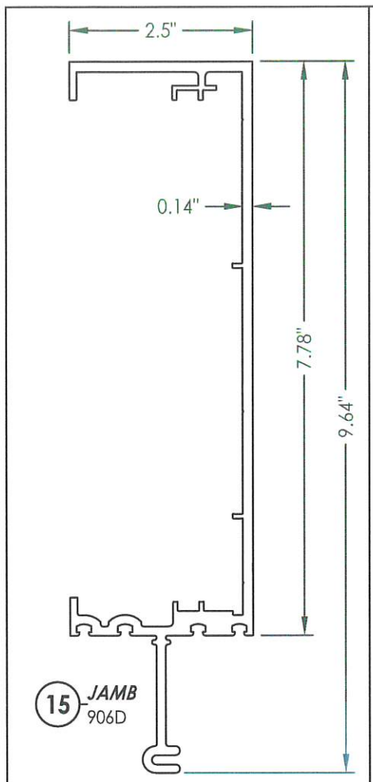
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SHT: 19 0

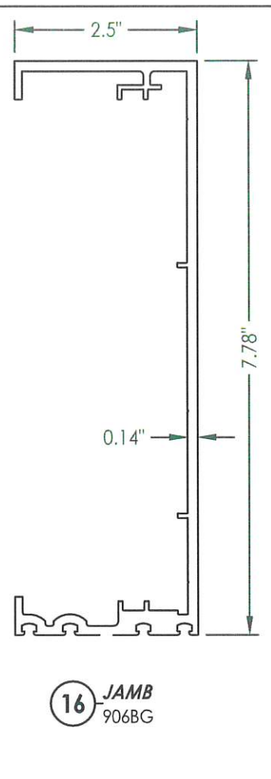
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PLOT DATE: 2025-6-20

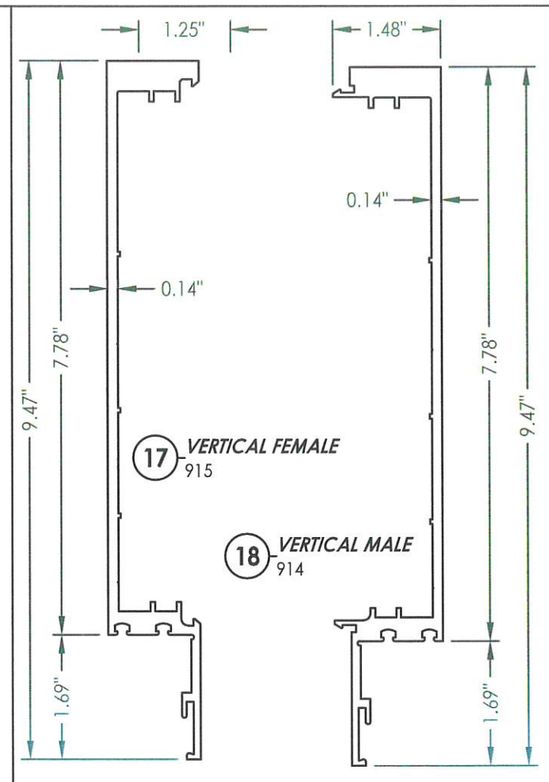
WTG 900 SERIES



15 JAMB
906D

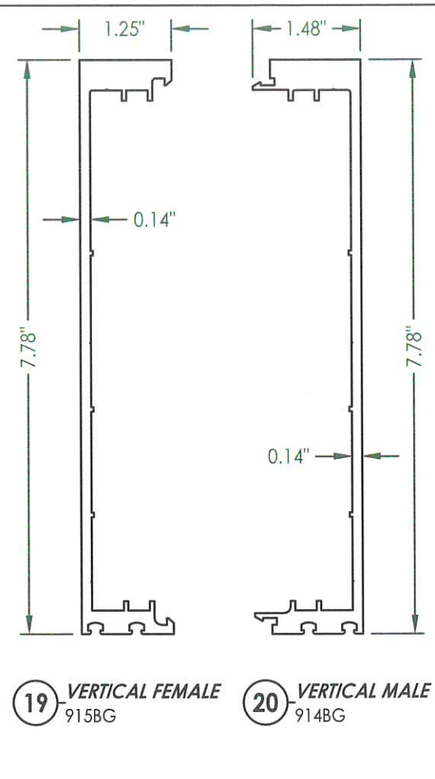


16 JAMB
906BG



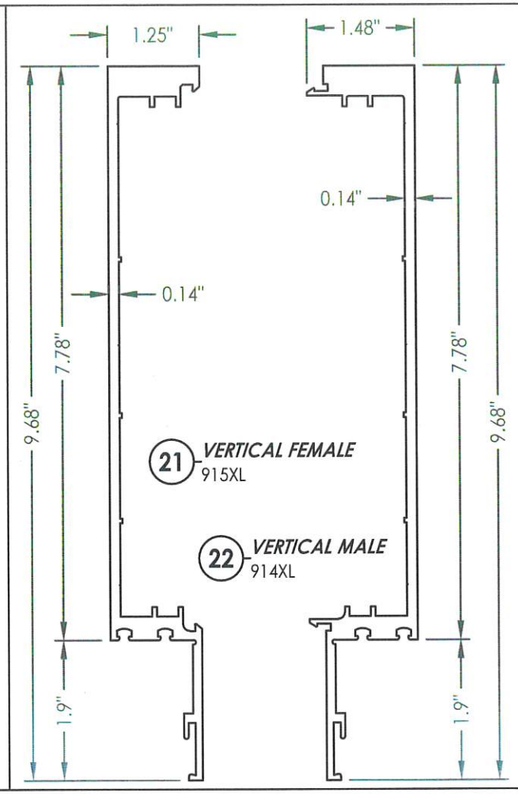
17 VERTICAL FEMALE
915

18 VERTICAL MALE
914



19 VERTICAL FEMALE
915BG

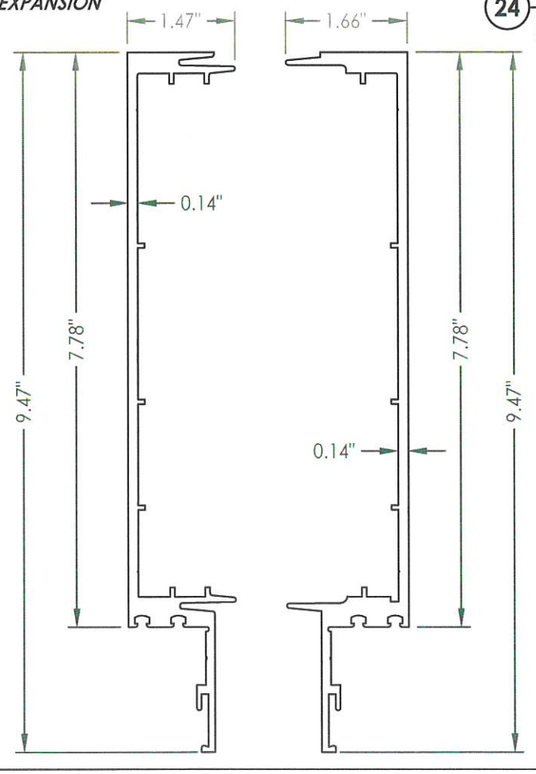
20 VERTICAL MALE
914BG



21 VERTICAL FEMALE
915XL

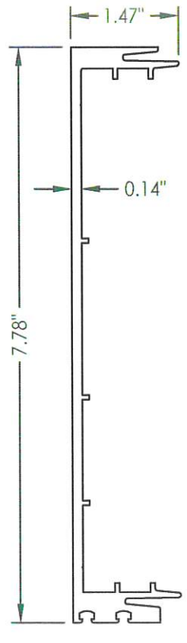
22 VERTICAL MALE
914XL

23 VERTICAL EXPANSION
FEMALE
935

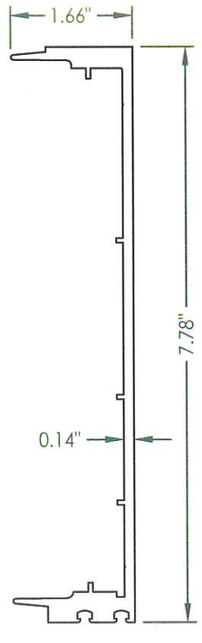


24 VERTICAL EXPANSION
MALE
934

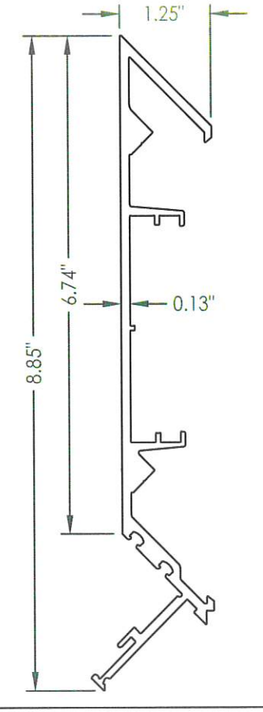
25 VERTICAL EXPANSION
FEMLE SSG
935BG



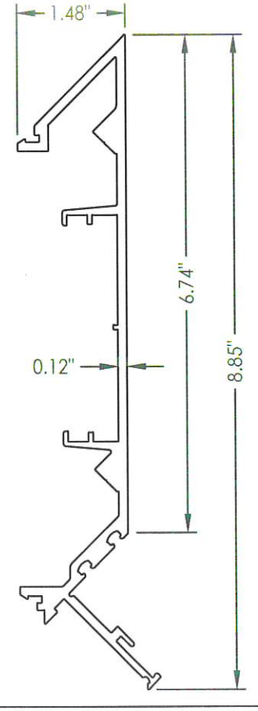
26 VERTICAL EXPANSION
MALE SSG
934BG



27 CORNER FEMALE
EXTERIOR
715



28 CORNER MALE
EXTERIOR
714



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2705 N. 35TH STREET
TAMPA, FLORIDA 33605
PH. 813-247-5528
FAX. 813-247-6468
WEST TAMPA GLASS CO.
SINCE 1934

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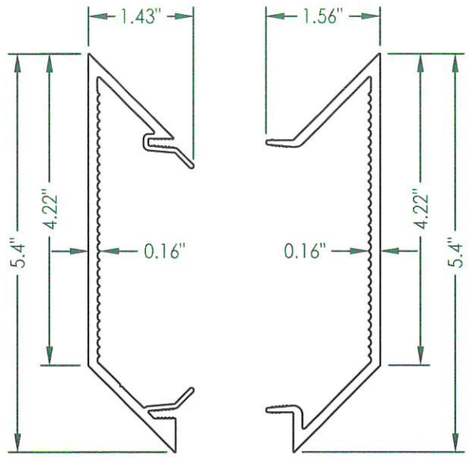
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ENGINEER
SCOTT WOLFERS
Wolfers Engineering, Inc.
(FL COA #22196)
15211 97th Road N.
West Palm Beach,
FL 33412
STATE OF FLORIDA
PROFESSIONAL ENGINEER

JUN 20, 2025

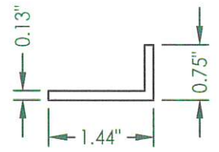
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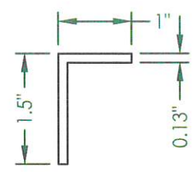


29 **CORNER FEMALE**
517E

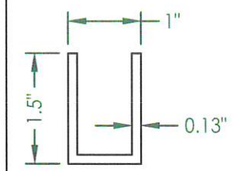
30 **CORNER MALE**
518E



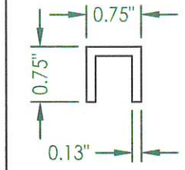
33 **ALUMINUM L-ANGLE**



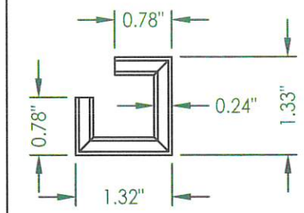
34 **ALUMINUM ANGLE**



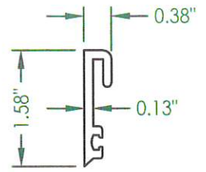
35 **U-CHANNEL**



36 **U-CHANNEL**

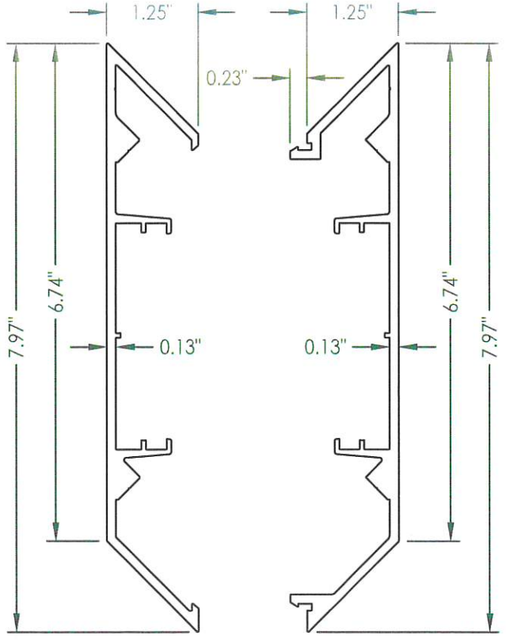


37 **CORNER CLOSURE**
MATERIAL VARIES



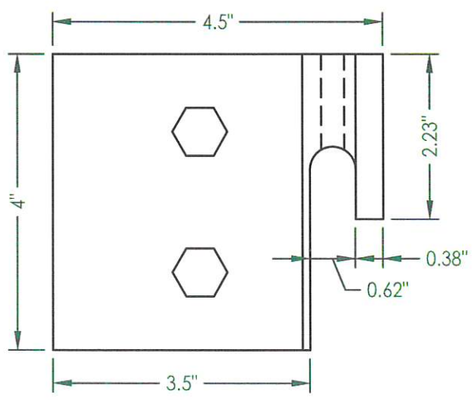
38 **PP SSG PERIMETER**



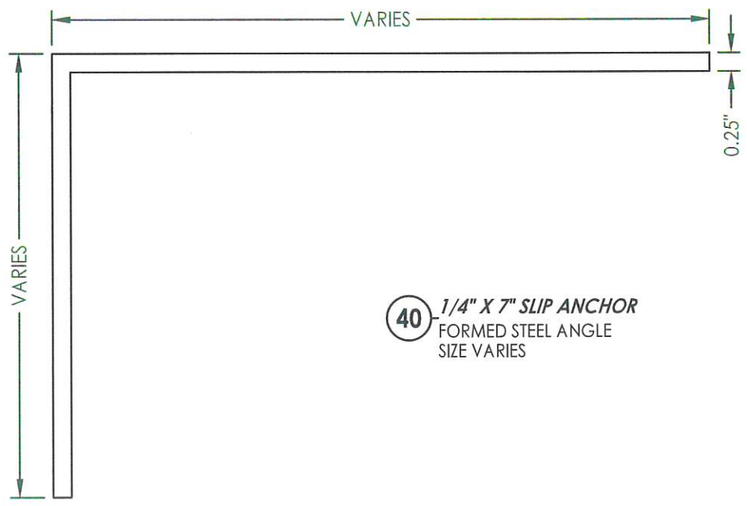


31 **CORNER FEMALE**
718

32 **CORNER MALE**
717



39 **ANCHOR HANGER**



40 **1/4" X 7" SLIP ANCHOR**
FORMED STEEL ANGLE
SIZE VARIES

WTG 900 SERIES

LAST SAVE: 2025-6-20 KKHAYKHAM

SCOTT V. WOLTERS
LICENSE NUMBER
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JUN 20 2025

ENGINEER:
Scott Wolters
Wolters Engineering, Inc.
15211 97th Road N.
West Palm Beach, FL 33412
(FBOR # 27198)

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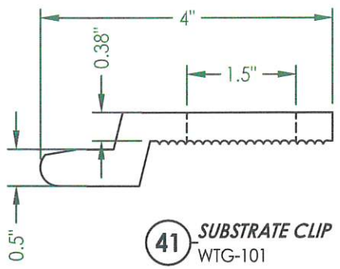
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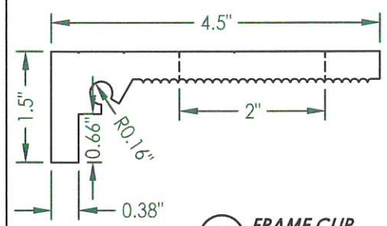
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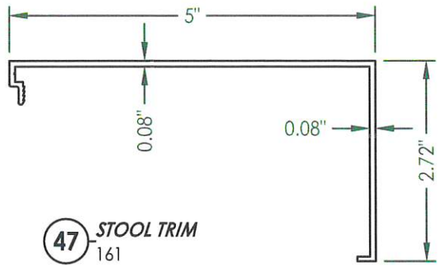
PLOT DATE: 2025-6-20



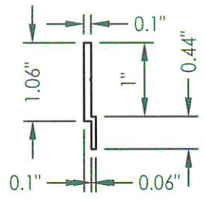
41 SUBSTRATE CLIP
WTG-101



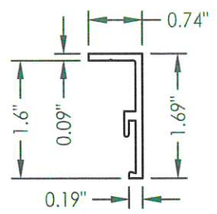
42 FRAME CLIP
WTG-102



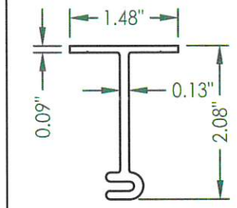
47 STOOL TRIM
161



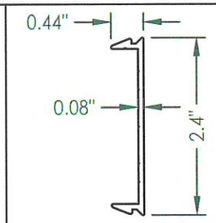
48 JAMB ADAPTOR
162



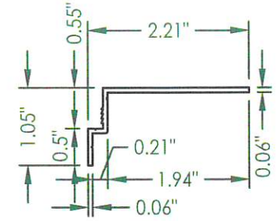
49 TONGUE ADAPTOR
163



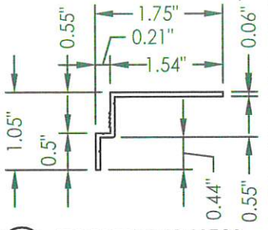
50 TONGUE ADAPTOR
163 XL



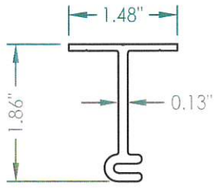
51 PRESSURE BAR
TWINSPAN
164R



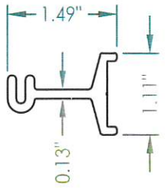
45 STOOL TRIM ADAPTOR
160



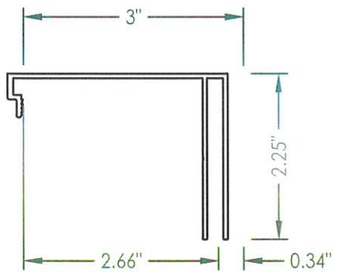
46 STOOL TRIM ADAPTOR
160A



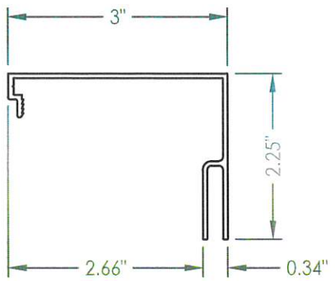
52 TONGUE ADAPTOR
165



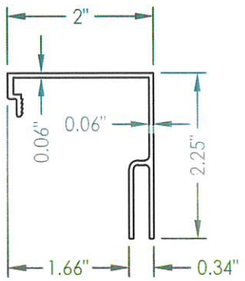
53 TONGUE ADAPTOR
165M



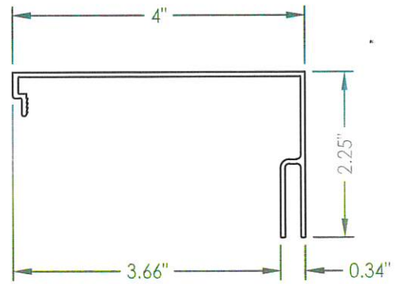
54 STOOL TRIM
166



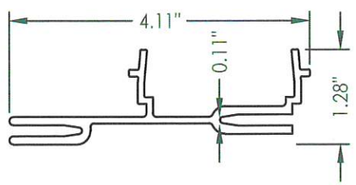
55 STOOL TRIM
166



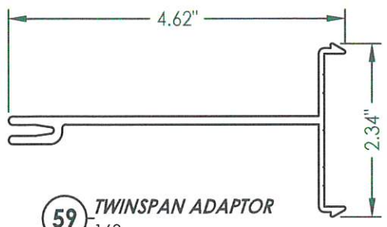
56 STOOL TRIM
166H



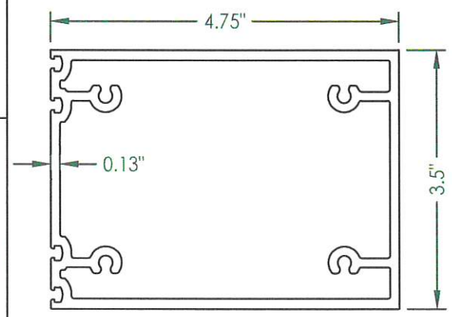
57 STOOL TRIM
166K



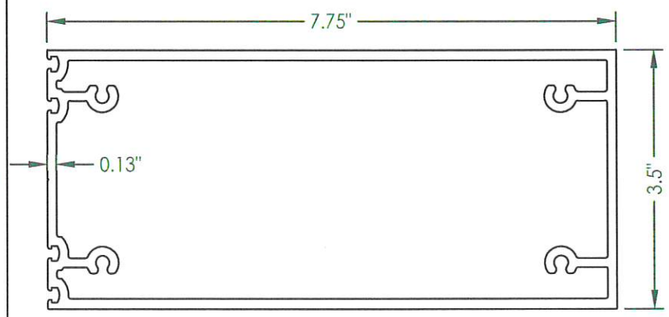
58 TWINSPAN ADAPTOR
167



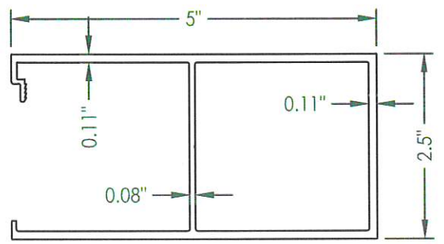
59 TWINSPAN ADAPTOR
168



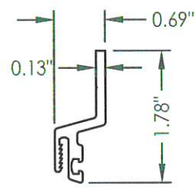
122 HORZ SSG 3 1/2"
731



123 HORZ SSG 3 1/2"
931



63 STOOL EXTENSION
173



64 TRIM ADAPTOR
174

WTG 900 SERIES

LAST SAVE: 2025-6-20 KKHAYKHAM

SCOTT WOLTERS ENGINEER
Wolters Engineering, Inc.
15211 97th Road N,
West Palm Beach,
FL 33412
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JUN 20 2025

REVISION	DATE	REV. #	DESCRIPTION
	06/20/25	00	FOR APPROVAL
	-	-	
	-	-	

WEST TAMPA GLASS CO.
2705 N. 35TH STREET
TAMPA, FLORIDA 33605
PH. 813-247-5528
FAX. 813-247-6468
SINCE 1934

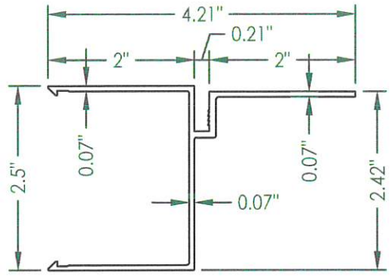
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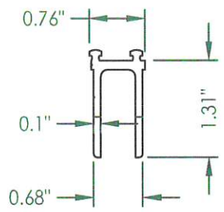
SHT: 22

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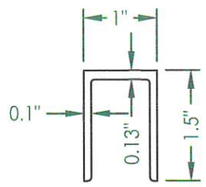
PLOT DATE: 2025-6-20



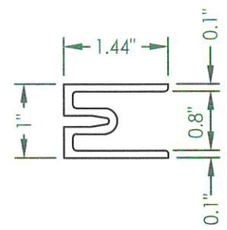
65 **INTERIOR TRIM**
179



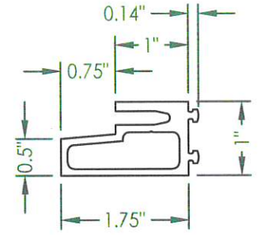
66 **CHANNEL ADAPTOR**
185



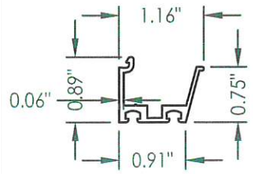
67 **U-CHANNEL**
186



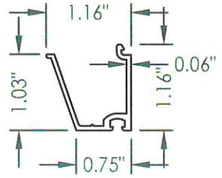
68 **CHANNEL W/**
SCREW BOSS
187



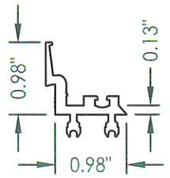
69 **FACECAP**
188



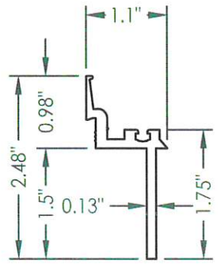
70 **GLAZING ADAPTOR**
702



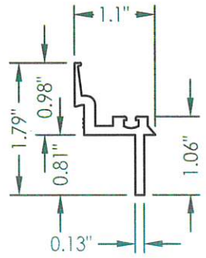
71 **GLAZING ADAPTOR**
702A



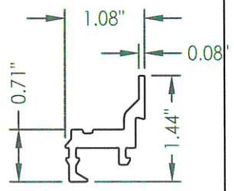
72 **GLASS RETAINER**
VERT PRESSURE BAR
703A



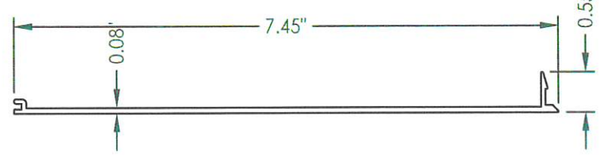
73 **PRESSURE BAR**
W/ SINGLE WING
703B



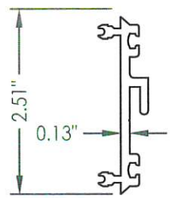
74 **PRESSURE BAR**
W/ SINGLE WING
703F



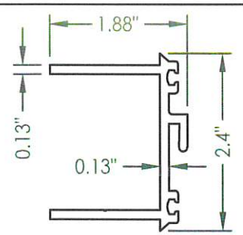
75 **PRESSURE BAR**
W/ WINGS
703P



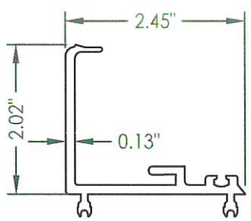
76 **SNAP-IN FILLER**
907



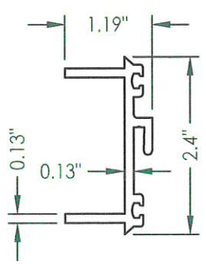
77 **U-CHANNEL**
PRESSURE BAR
709A



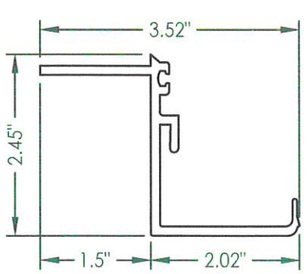
78 **PRESSURE BAR**
W/ WINGS 709B



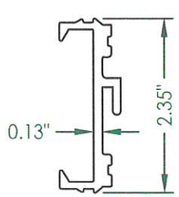
79 **PRESSURE BAR**
PERIMETER
709D



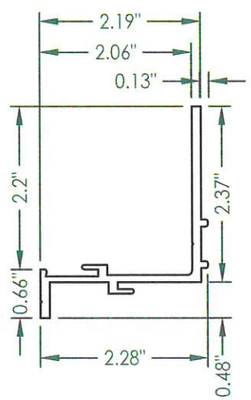
80 **PRESSURE BAR**
W/ WINGS 709F



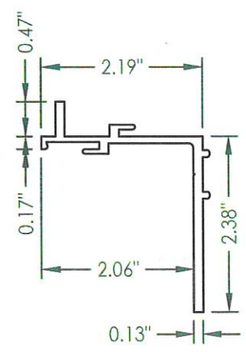
81 **PRESSURE BAR**
W/ WINGS 709G



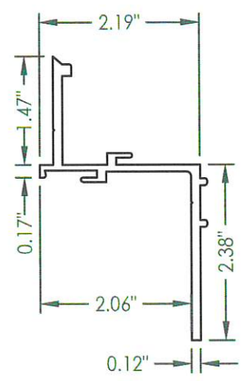
82 **THERMOPLASTIC**
PRESSURE BAR
709P



83 **GLAZING ADAPTOR**
(MALE) 736



84 **GLAZING ADAPTOR**
(MALE) 737



85 **GLAZING ADAPTOR**
(PERIMETER) 738

WTG 900 SERIES

LAST SAVE: 2025-6-20 KKHAYKHAM

SCOTT ENGINEERING
SCOTT WOLTERS
Wolters Engineering, Inc.
15211 97th Road N,
West Palm Beach,
FL 33412
NOA #23-1218.08
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JUN 20 2025

REVISION	DESCRIPTION	REV. #	DATE
	FOR APPROVAL	00	06/20/25
		-	-
		-	-

WEST TAMPA GLASS CO.
SINCE 1934
2705 N. 35TH STREET
TAMPA, FLORIDA 33605
PH. 813-247-5528
FAX. 813-247-6468

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SHT: 23

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PLOT DATE: 2025-6-20



86 *#8-18*
PL-PH-SMS ZC TEK/2



87 *#12-14 X 1 1/2"*
PH ZINC OR SS SMS



88 *SDR2 #12-14*
PL-FH-SMS SG DRIL-FLEX



89 *3/8"-16 X 1 1/2"*
GR 5 BOLT OR TAP-FLEX



90 *5/16-18 HWH S.S. TEK SCREW*
STEEL ANCHOR



91 *5/16 HWH*
CONCRETE ANCHOR



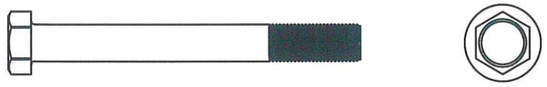
92 *STK5 #10-16*
PL-PH OR HWH-SMS 410 TEK/3



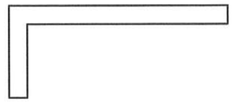
93 *3/8"X16 OR 1/2"X13 OR 5/8"X11*
GR 5 BOLT - 1" LENGTH
SIZE AS NEEDED



94 *3/8"X16 OR 1/2"X13 OR 5/8"X11*
GR 5 BOLT - 2" LENGTH
SIZE AS NEEDED



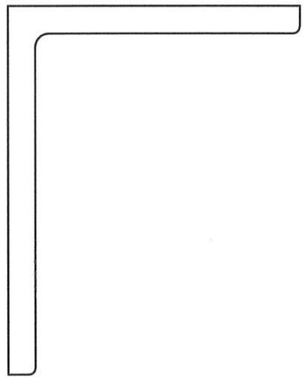
95 *3/8"X16 OR 1/2"X13 OR 5/8"X11*
GR 5 BOLT - 5" LENGTH
SIZE AS NEEDED



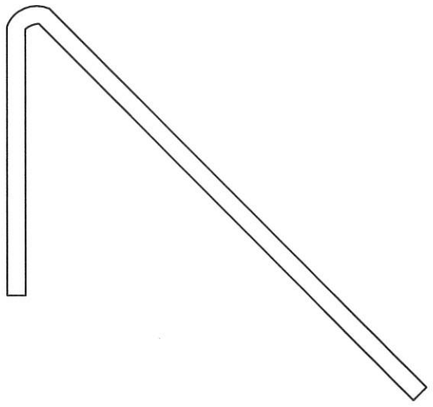
96 *1 1/4" X 3" X 1/4"*
ALUMINUM ANGLE - 4" LENGTH



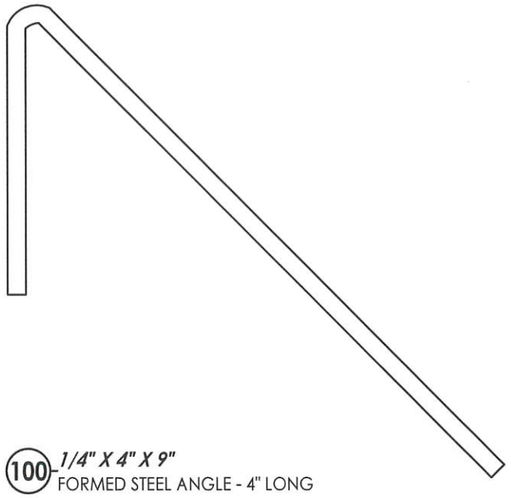
97 *3/8"X16 OR 1/2"X13 OR 5/8"X11*
ZINC OR SS NUT
SIZE AS NEEDED



98 *1/4" X 4" X 5"*
FORMED STEEL ANGLE - 4" LONG



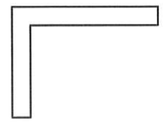
99 *1/4" X 4" X 8 1/2"*
FORMED STEEL ANGLE - 8" LONG



100 *1/4" X 4" X 9"*
FORMED STEEL ANGLE - 4" LONG



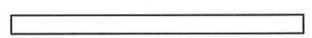
101 *1/8" X 4"*
STEEL FLAT BAR (ASTM A588/ASTM 36)
LENGTH AS NEEDED



102 *1 1/2" X 2" X 1/4"*
ALUMINUM ANGLE - 3 1/2" LENGTH



103 *1/4" X 4"*
STEEL FLAT BAR (ASTM A588/ASTM 36)
LENGTH AS NEEDED



104 *1/4" X 4"*
ALUMINUM FLAT BAR (6063 ALLOY)
9" LENGTH FOR TWIN-SPAN SPLICE



105 *SPACER GASKET*
GK004



106 *WEDGE GASKET*
GK005



107 *SPACER GASKET*
GK003



108 *BACKER ROD*

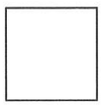
109 *SPACER TAPE*



110 *SPACER GASKET*
GK006

111 *SPACER GASKET*
GK007

119 *BREAK METAL*
LENGTH AS NEEDED



112 *HALFEN WASHER*
ALUMINUM (6063)



113 *DOWSIL SILCONE*
983 OR 795 OR
995 OR GE SSG4600

114 *26 GA*
GALVALUME
WIDTH & LENGTH AS NEEDED

115 *4 MM*
ACM PANEL - PE OR FR CORE
WIDTH & LENGTH AS NEEDED

116 *1/8" X 1 1/2"*
ALUMINUM FLAT BAR (6063 ALLOY)
LENGTH AS NEEDED



117 *SILICONE SEALANT*



118 *SETTING BLOCK*

WTG 900 SERIES

SCOTT WOLTERS
ENGINEERING
FLORIDA
PROFESSIONAL

ENGINEER
SCOTT WOLTERS, PE
Wolters Engineering, Inc.
COA 6 #29398
15211 97th Road N,
West Palm Beach,
FL 33412
STATE OF
JUN 20 2025

LAST SAVE: 2025-6-20 KKHAYKHAM

REVISION	DESCRIPTION	REV. #	DATE
	FOR APPROVAL	00	06/20/25
		-	-
		-	-

WEST TAMPA GLASS CO.
SINCE 1934
2705 N. 35TH STREET
TAMPA, FLORIDA 33605
PH. 813-247-5528
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DRAWN BY: KK

SHT: 24 | 0

PLOT DATE: 2025-6-20

BILL OF MATERIALS			BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL	ITEM	DESCRIPTION	MATERIAL
1	HEAD\SILL\HORZ (#900)	6063 ALUM.	51	PRESSURE BAR TWINSPAN (#164R)	6063 ALUM.
2	HEAD\SILL\HORZ (#900BG)	6063 ALUM.	52	TONGUE ADAPTOR (#165)	6063 ALUM.
3	HORZ (#901)	6063 ALUM.	53	TONGUE ADAPTOR (#165M)	6063 ALUM.
4	HEAD\SILL\HORZ (#901BG)	6063 ALUM.	54	STOOL TRIM 3" (#166)	6063 ALUM.
5	HEAD\SILL\HORZ (#901A)	6063 ALUM.	55	STOOL TRIM 3" (#166)	6063 ALUM.
6	TWIN HORZ - BOTTOM MALE (#713)	6063 ALUM.	56	STOOL TRIM 2" (#166H)	6063 ALUM.
7	TWIN HORZ - TOP FEMALE (#912)	6063 ALUM.	57	STOOL TRIM 4" (#166K)	6063 ALUM.
8	TWIN HORZ - BOTTOM MALE (#913)	6063 ALUM.	58	TWINSPAN ADAPTOR (#167)	6063 ALUM.
9	TWIN HORZ - TOP FEMALE (#912BG)	6063 ALUM.	59	TWINSPAN ADAPTOR (#168)	6063 ALUM.
10	TWIN HORZ - BOTTOM MALE (#713BG)	6063 ALUM.	60		
11	TWIN HORZ - (#540)	6063 ALUM.	61		
12	TWIN HORZ - (#541)	6063 ALUM.	62		
13	TWIN HORZ - TOP FEMALE (#512)	6063 ALUM.	63	STOOL EXTENSION 5" (#173)	6063 ALUM.
14	TWIN HORZ - BOTTOM MALE (#513)	6063 ALUM.	64	TRIM ADAPTOR (#174)	6063 ALUM.
15	MULLION (#906D)	6005A-T61 OR 6005-T5 ALUM.	65	INTERIOR TRIM (#179)	6063 ALUM.
16	MULLION (#906D NOTCHED)	6005A-T61 OR 6005-T5 ALUM.	66	CHANNEL ADAPTOR (#185)	6063 ALUM.
17	VERTICAL FEMALE - (#915)	6005A-T61 OR 6005-T5 ALUM.	67	1 x 1 1/2 1/8 ALUM. U-CHANNEL (#186)	6063 ALUM.
18	VERTICAL MALE - (#914)	6005A-T61 OR 6005-T5 ALUM.	68	CHANNEL W/ SCREW BOSS (#187)	6063 ALUM.
19	VERTICAL FEMALE - (#915BG)	6005A-T61 OR 6005-T5 ALUM.	69	FACECAP (#188)	6063 ALUM.
20	VERTICAL MALE - (#914BG)	6005A-T61 OR 6005-T5 ALUM.	70	GLAZING ADAPTOR (#702)	6063 ALUM.
21	VERTICAL FEMALE - (#915XL)	6005A-T61 OR 6005-T5 ALUM.	71	GLAZING ADAPTOR (#702A)	6063 ALUM.
22	VERTICAL MALE - (#914XL)	6005A-T61 OR 6005-T5 ALUM.	72	GLASS RETAINER - VERTICAL PRESSURE BAR (#703A)	6063 ALUM.
23	VERTICAL EXPANSION - FEMALE (#935)	6005A-T61 OR 6005-T5 ALUM.	73	PRESSURE BAR W/ SINGLE WING (#703B)	6063 ALUM.
24	VERTICAL EXPANSION - MALE (#934)	6005A-T61 OR 6005-T5 ALUM.	74	PRESSURE BAR W/ SINGLE WING (#703F)	6063 ALUM.
25	VERTICAL EXPANSION - FEMALE (#935BG)	6005A-T61 OR 6005-T5 ALUM.	75	THERMOPLASTIC BAR (#703P)	PLASTIC
26	VERTICAL EXPANSION - MALE (#934BG)	6005A-T61 OR 6005-T5 ALUM.	76	SNAP-IN FILLER (#907)	6063 ALUM.
27	CORNER MALE (#714)	6005A-T61 OR 6005-T5 ALUM.	77	PRESSURE BAR (#709A)	6063 ALUM.
28	CORNER FEMALE (#715)	6005A-T61 OR 6005-T5 ALUM.	78	PRESSURE BAR W/ WINGS (#709B)	6063 ALUM.
29	CORNER FEMALE (#517E)	6005A-T61 OR 6005-T5 ALUM.	79	PRESSURE BAR - PERIMETER (#709D)	6063 ALUM.
30	CORNER MALE (#518E)	6005A-T61 OR 6005-T5 ALUM.	80	PRESSURE BAR W/ WINGS (#709F)	6063 ALUM.
31	CORNER FEMALE (#717)	6005A-T61 OR 6005-T5 ALUM.	81	PRESSURE BAR W/ WINGS FOR ACM (#709G)	6063 ALUM.
32	CORNER MALE (#718)	6005A-T61 OR 6005-T5 ALUM.	82	HORZ THERMOPLASTIC BAR (#709P)	PLASTIC
33	3/4" x 1 1/2" 1/8 ALUM. ANGLE (QTY. 2) EA LITE @ QTR POINTS OF GLASS WIDTH	6063 ALUM.	83	GLAZING ADAPTOR - MALE (#736)	6063 ALUM.
34	1" x 1 1/2" 1/8 ALUM. ANGLE (QTY. 2) EA LITE @ QTR POINTS OF GLASS WIDTH	6063 ALUM.	84	GLAZING ADAPTOR - MALE (#737)	6063 ALUM.
35	1 x 1 1/2 1/8 ALUM. U-CHANNEL	6063 ALUM.	85	GLAZING ADAPTOR - PERIMETER (#738)	6063 ALUM.
36	3/4 x 3/4 1/16 ALUM. U-CHANNEL	6063 ALUM.	86	#8-18 FH TEK SCREW	STEEL
37	CORNER CLOSURE	VARIES	87	#12 PH ZINC OR SS SCREW	STEEL
38	PP SSG PERIMETER	6063 ALUM.	88	# 1/4" x 20 FH TEK SCREW	STEEL
39	ANCHOR HANGER	6063 ALUM.	89	3/8" X 16 X 1 1/2" GR 5 BOLT OR TAP-FLEX BOLT	STEEL
40	SLIP ANCHOR - 1/4" x 7" FORMED STEEL FLAT BAR - 4" MIN. INSIDE VERTICAL	STEEL	90	5/16" HWH SELF DRILLING SCREW OR ELCO DRILL-FLEX SCREW	STEEL
41	SUBSTRATE CLIP (#101)	6063 ALUM.	91	5/16 " HWH CONCRETE ANCHORS	STEEL
42	FRAME CLIP (#102)	6063 ALUM.	92	STK5 #10-16 PL-PH-SMS 410 TEK/3	STEEL
43			93	GR 5 BOLT - 1" LENGTH - DIAMETER VARIES AS NEEDED	STEEL
44			94	GR 5 BOLT - 2" LENGTH - DIAMETER VARIES AS NEEDED	STEEL
45	STOOL TRIM ADAPTOR (#160)	6063 ALUM.	95	GR 5 BOLT - 5" LENGTH - DIAMETER VARIES AS NEEDED	STEEL
46	STOOL TRIM ADAPTOR (#160A)	6063 ALUM.	96	1-1/4" x 3" x 1/4" ALUMINUM ANGLE 4" LENGTH	6063 ALUM.
47	STOOL TRIM 5" (#161)	6063 ALUM.	97	ZINC OR SS NUT OR LOCK NUT	STEEL
48	JAMB ADAPTOR (#162)	6063 ALUM.	98	1/4 x 4 x 5" FORMED STEEL ANGLE - 4" LONG	STEEL
49	TONGUE ADAPTOR (#163)	6063 ALUM.	99	1/4 x 4 x 8-1/2" STEEL ANGLE - 8" LONG - 45° CLIP AT CORNER	STEEL
50	TONGUE ADAPTOR (#163XL)	6063 ALUM.	100	1/4" x 4" x 9" FORMED STEEL ANGLE 4" LONG	STEEL

WTG 900 SERIES

SCOTT WOLTERS ENGINEERING
SCOTT WOLTERS
ENGINEER
STATE OF FLORIDA
Wolters Engineering, Inc.
(COA #27198)
15211 97th Road N,
West Palm Beach,
FL 33412
JUN 20 2025

REVISION	DATE	REV. #	DESCRIPTION
	06/20/25	00	FOR APPROVAL
	-	-	
	-	-	

WEST TAMPA GLASS CO.
SINCE 1934
2705 N. 35TH STREET
TAMPA, FLORIDA 33605
PH: 813-247-5528
FAX: 813-247-6468

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LAST SAVE: 2025-6-20 KKHAYKHAM

PLOT DATE: 2025-6-20

BILL OF MATERIALS

ITEM	DESCRIPTION	MATERIAL
101	1/8" X 4" STEEL HOT ROLLED FLAT BAR PRIMER FINISH (ASTM A588) /ASTM 36	STEEL
102	ANGLE - 2 x 1 1/2 x 1/4" x 3 1/2" LONG - ALUM.	6063 ALUM.
103	1/4" x 4" STEEL HOT ROLLED FLAT BAR PRIMER FINISH (ASTM A588) /ASTM 36	STEEL
104	SPLICE PLATES (QTY. 2) 1/4" x 4" FLAT BAR 9" LONG	6063 ALUM.
105	GK004 - EPDM OR SILICONE	SILICONE
106	GK005 - SCR OR SILICONE	SILICONE
107	GK003 - SPACER GASKET INTERIOR SCR OR SILICONE	SILCONE
108	BACKER ROD CLOSED CELL EXTRUDED FOAM/TUNDRA FOAM OPEN CELL	FOAM
109	SPACER TAPE - 1/4" x 3/8" THERMALBOND	EPDM
110	GK006 - EPDM OR SILICONE	SILICONE
111	GK007 - SCR OR SILICONE	SILICONE
112	HALFEN WASHER	6063 ALUM.
113	SEALANT DOWSIL 983 OR DOWSIL 795 OR GE SSG 4600	SILCONE
114	GALVALUME	METAL
115	ACM - 4mm PE COR / FR CORE	MCM
116	1/8" x 1-1/2" ALUMINUM FLAT BAR (AT INSIDE CORNER)	6063 ALUM.
117	SILICONE SEALANT	SILICONE
118	SETTING BLOCK	SILICONE
119	BREAK METAL	ALUM.
120	DC-123 TAPE	SILICONE
121	GLAZING ADAPTER	6063 ALUM.
122	HORIZONTAL SSG 3 1/2" (#731)	6063 ALUM.
123	HORIZONTAL SSG 3 1/2" (#931)	6063 ALUM.
124	ANGLE - 1" x 1" x 1/8" - ALUM.	6063 ALUM.
125	ANGLE - 1" x 1 1/2" x 1/8" - ALUM.	6063 ALUM.
126	ANGLE - 2" x 2" x 1/8" - ALUM.	6063 ALUM.

BILL OF MATERIALS

ITEM	DESCRIPTION	MATERIAL

WTG 900 SERIES

SCOTT WOLTERS PROFESSIONAL ENGINEER STATE OF FLORIDA
No. 62354
SCOTT WOLTERS, P.E. #62354
Wolters Engineering, Inc. (COA #27198)
15211 97th Road N, West Palm Beach, FL 33412
JUN 20 2025

DATE	REV. #	DESCRIPTION
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-	-	

REVISION

WEST TAMPA GLASS CO.
SINCE 1934
2705 N. 35TH STREET
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