

WEST TAMPA GLASS COMPANY

SINCE 1934

2705 N. 35th STREET
TAMPA, FLORIDA 33605

SERIES WTG - 500 ALUMINUM CURTAIN WALL SYSTEM

SMI, LMI, "MISSILE-E"

OVERALL SIZE LIMITATIONS (PER MULLION ASSEMBLY)

500 SYSTEM	MAX TRIBUTARY SQ FT	MAX SPAN	MAX PSF
JAMB - 506D	19.9	108"	90
VERT - 504/505	36	108"	90
VERT SSG - 504BG/505BG	30	108"	70

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

ITEM	SUBSTRATE	DESCRIPTION	MAX RX	JOINT
C2	CONCRETE (3000 PSI MIN.)	(3) 1/4" X 2-3/4" ULTRACON (3-3/4" SPACING)EA. SIDE OF MULLION, W/1-3/4" MIN.PENETRATION, 1-3/4" MIN EDGE DISTANCE	1,706 LBS	1/4" MAX
C3		(3) 5/16" X 2-3/4" ULTRACON (3-3/4" SPACING)EA. SIDE OF MULLION, W/1-3/4" MIN.PENETRATION, 1-3/4" MIN EDGE DISTANCE	1,654 LBS	3/8" MAX
C4		(4) 5/16" X 2-3/4" TAPCON (3-3/4" SPACING)EA. SIDE OF MULLION, W/1-3/4" MIN.PENETRATION, 1-3/4" MIN EDGE DISTANCE	1,706 LBS	1/2" MAX
C5		(3) 3/8" X 2-3/4" WEDGE ANCHOR (3-3/4" SPACING)EA. SIDE OF MULLION, W/2-1/4" MIN.PENETRATION, 2-1/4" MIN EDGE DISTANCE	1,706 LBS	3/4" MAX
S2	STEEL (10 GAUGE, MIN.)	(2) 5/16"-24 X 1 1/2" HWH#4 SELF DRILLING SCREW EA. SIDE OF MULLION, 3" SPACING TYP., 1-1/2 MIN EDGE DISTANCE	1,706 LBS	1/4" MAX
S3		(3) 5/16"-24 X 1 1/2" HWH#4 SELF DRILLING SCREW EA. SIDE OF MULLION, 3" SPACING TYP., 1-1/2 MIN EDGE DISTANCE	1,706 LBS	1/2" MAX
S4		(3) 5/16"-24 X 1 1/2" HWH#4 SELF DRILLING SCREW EA. SIDE OF MULLION, 3" SPACING TYP., 1-1/2 MIN EDGE DISTANCE	1,706 LBS	3/4" MAX

ANCHOR NOTES:

- ANCHORING OF CURTAIN WALL SYSTEM TO SUPPORTING STRUCTURE IS THE RESPONSIBILITY OF THE DELEGATED FL LICENSED ENGINEER FOR EACH PROJECT.
- SIZE AND QUANTITIES SHOWN AS TESTED AND MAY BE MODIFIED AS SPECIFIED BY FL LICENSED ENGINEER.

GENERAL NOTES

- 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).
- Product anchors shall be as listed and spaced as shown on details.
- When used in the "HVHZ" this product complies with section 1626 of the Florida Building Code and does not require an impact resistant covering.
- 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.
- Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed Engineer or registered Architect.
- 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.
- All steel in contact with aluminum to be painted or plated.
- Product has passed AAMA 501.7 and AAMA 501.4., testing.
- 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)
- This system has passed testing, per ICC - 500, and FEMA 361 with glass and SGP interlayer. (As limited by test reports)

WTG 500 SERIES

ENGINEER
SCOTT WOLTERS
FL PE # 62354
Wolters Engineering, Inc.
(COA # 27198)
15211 97th Road N.
West Palm Beach,
FL 33412
JUL 03 2024

REVISION	DESCRIPTION	REV. #	DATE
	FOR APPROVAL	00	06/07/24

2705 N. 35TH STREET
TAMPA, FLORIDA 33605
PH. 813-247-5528
FAX. 813-247-6468
SINCE 1934
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DRAWN BY: KK

SHT: 00

PLOT DATE: 2024-7-3

LAST SAVE: 2024-7-1 KKHYKHAM

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REV. #

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DATE

06/07/24

DATE

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REV. #

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DESCRIPTION

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FOR APPROVAL

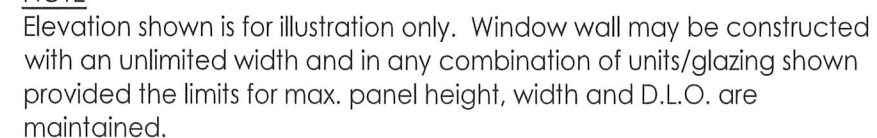
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WTG 500 SERIES

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

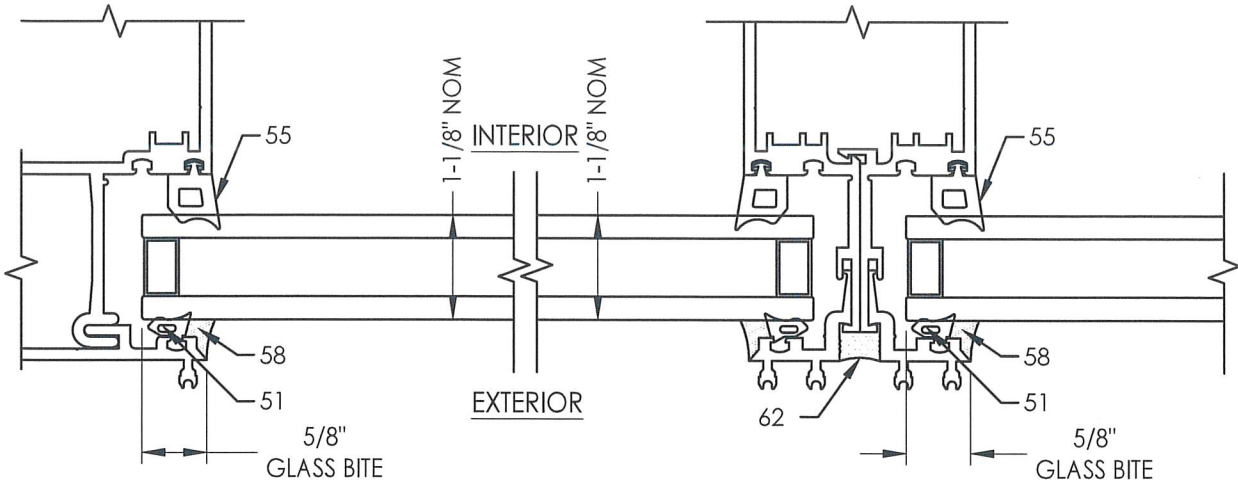
- GLASS - SEE CHARTS ON SHEETS 2-5 FOR ALLOWABLE GLASS TYPES, SIZES, AND DESIGN PRESSURE.
- MULLIONS - SEE CHARTS ON SHEETS 18-18B FOR MULLION TYPES, SIZES, REINFORCING, AND DESIGN PRESSURE.
- ANCHORS - SEE CHART ON COVER SHEET AND DETAILS ON SHEET 17 (HEAD/SILL) FOR ALLOWABLE ANCHOR LOADS.
- SYSTEM - THE DESIGN PRESSURE OF THE ENTIRE SYSTEM IS THE LOWEST DESIGN PRESSURE OF ALL COMPONENTS.



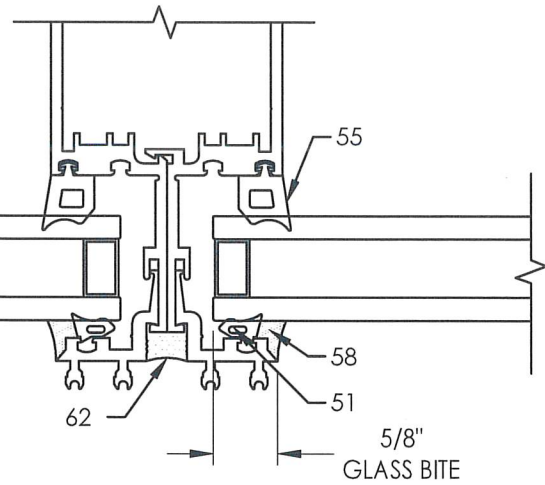
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LAST SAVE: 2024-7-1 KKHAM

 WEST TAMPA GLASS CO. 2705 N. 35TH STREET TAMPA, FLORIDA 33605 PH. 813-247-5528 FAX. 813-247-6468	_____ SINCE 1934		2705 N. 35TH STREET TAMPA, FLORIDA 33605 PH. 813-247-5528 FAX. 813-247-6468		REVISION	
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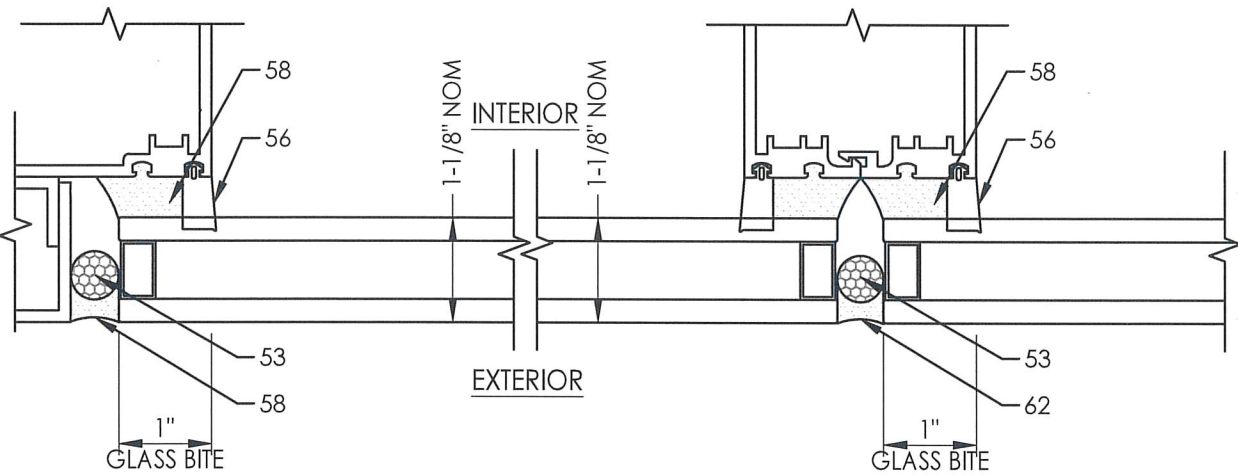
A PERIMETER GLAZING DETAIL - NON-IMPACT
CAPTURED GLAZING



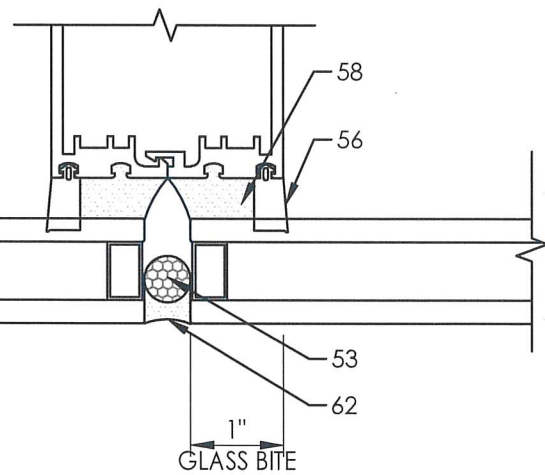
A INTERMEDIATE GLAZING DETAIL - NON-IMPACT
CAPTURED GLAZING

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

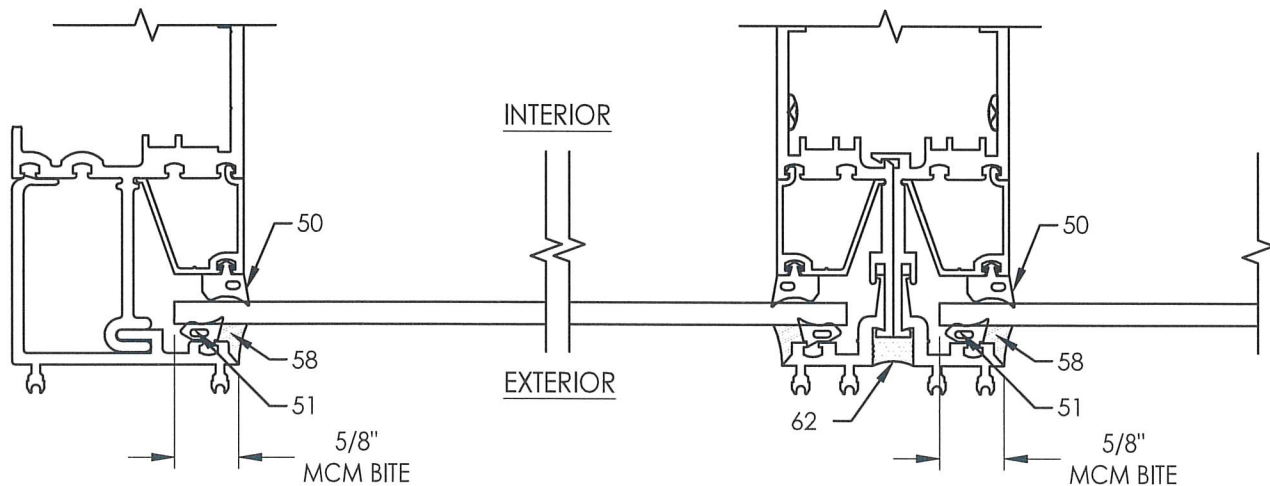
GLASS TYPE G2
1/4" HS
5/8" AIR SPACE
1/4" HS

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

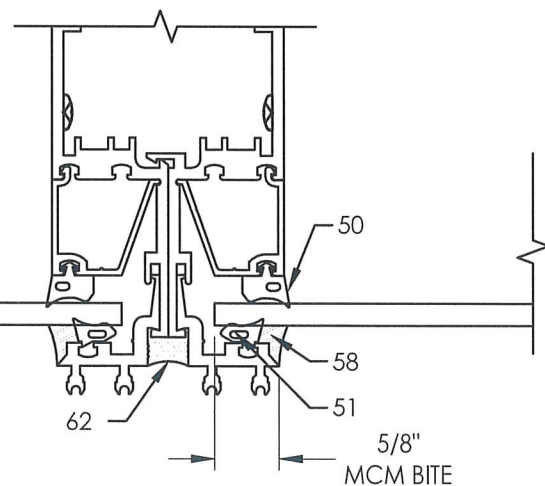
NON-IMPACT DETAILS

TYPE	MAX SQFT	MAX PSF
G1/G1T	NOTE 1	100
G2/G2T	NOTE 1	90
P1	SEE NOTE 3	±125
P2	SEE NOTE 3	±125

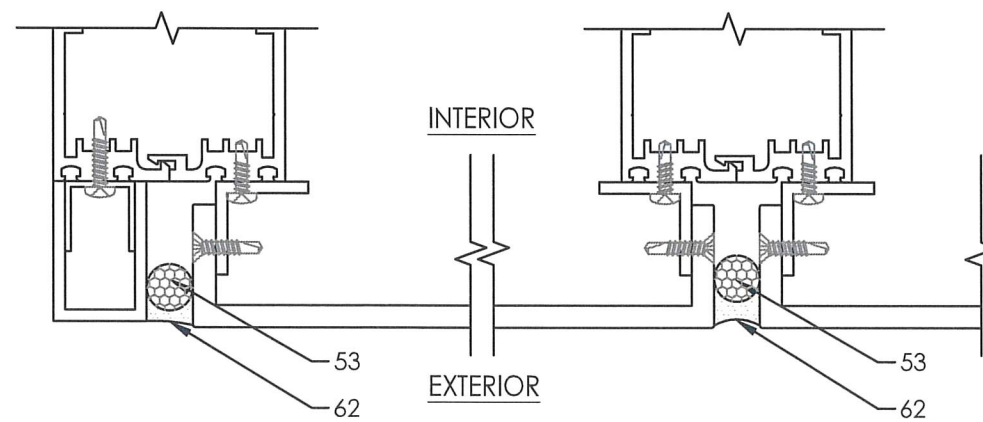
- NOTE :**
- FULL COMPARATIVE ANALYSIS ALLOWED FOR NI PRODUCTS. LIMITED BY ASTM E-1300.
 - ALUMINUM, STAINLESS STEEL OR THERMOPLASTIC SPACERS IN INSULATED UNITS, SILICONE TO BE PER GLASS MFG.
 - MCM PANELS LIMITED TO L/60 DEFLECTION.



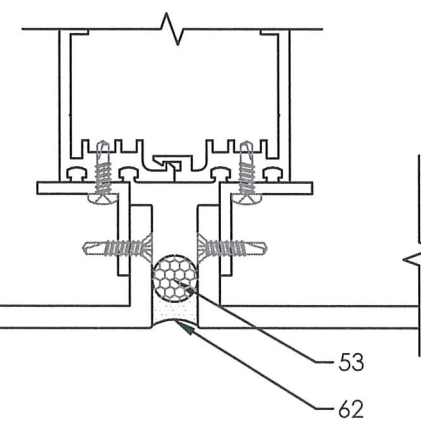
C PERIMETER GLAZING DETAIL - P1
CAPTURED GLAZING



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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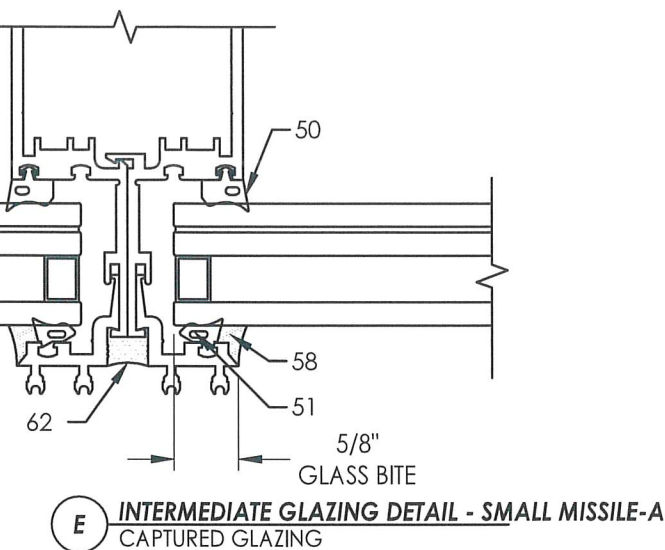
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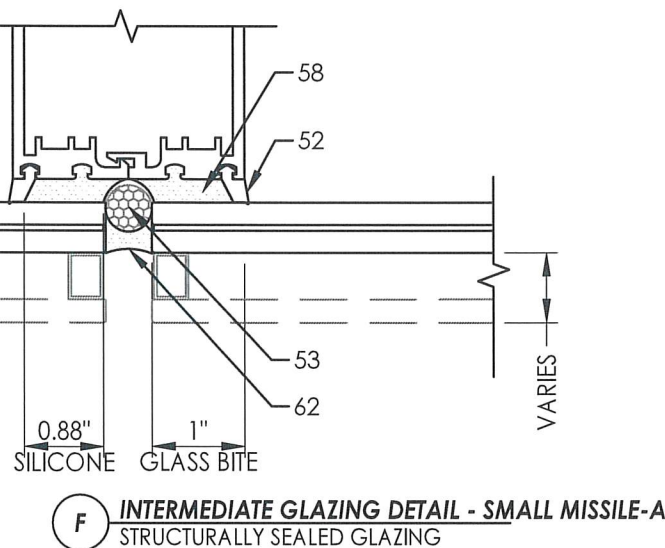
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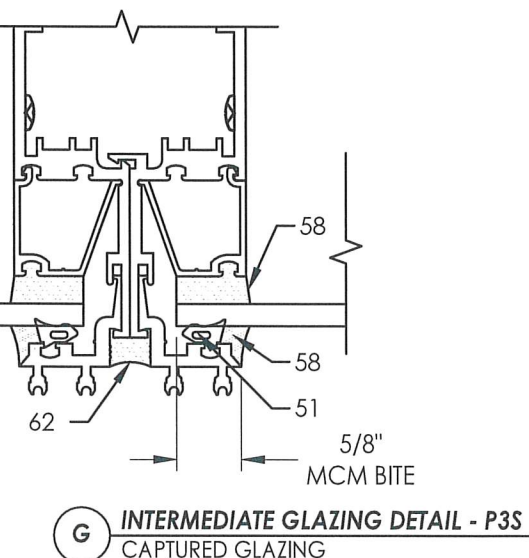




1/4" T
1/2" AIR SPACE
1/4" HS
0.060" PVB
1/4" HS



1/4" HS
0.060" UVEKOL
1/4" HS



- 0.5mm ALUMINUM
- 3mm PE OR FR CORE
- 0.5mm ALUMINUM

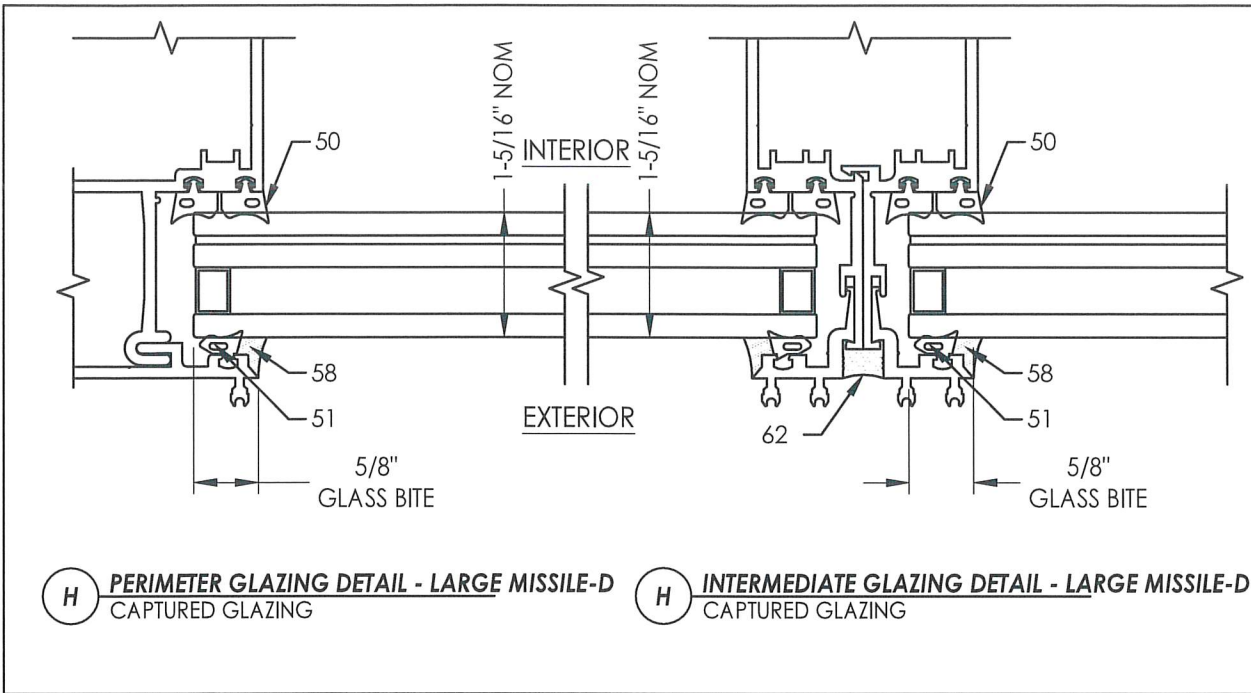
TYPE	MAX SQ FT	MAX PSF	INTERLAYER
G3/G3T	49.70 SF	±90	0.060" PVB OR 0.035 SGP
G4	39.95 SF	±90	0.060" PVB OR 0.035 SGP
G5	39.95 SF	±70	0.060" UVEKOL
P3S	12.77 SF	±125	NA

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.

WTG 500 SERIES

LA313 AVE. ZUZ4-/-3 KKHAI NHAM

Plot Date: 2024-7-3



GLASS TYPE G6	GLASS TYPE G6T
1/4" HS	1/4" T
1/2" AIR SPACE	1/2" AIR SPACE
1/4" HS	1/4" HS
0.075" VANCEVA	0.075" VANCEVA
1/4" HS	1/4" HS

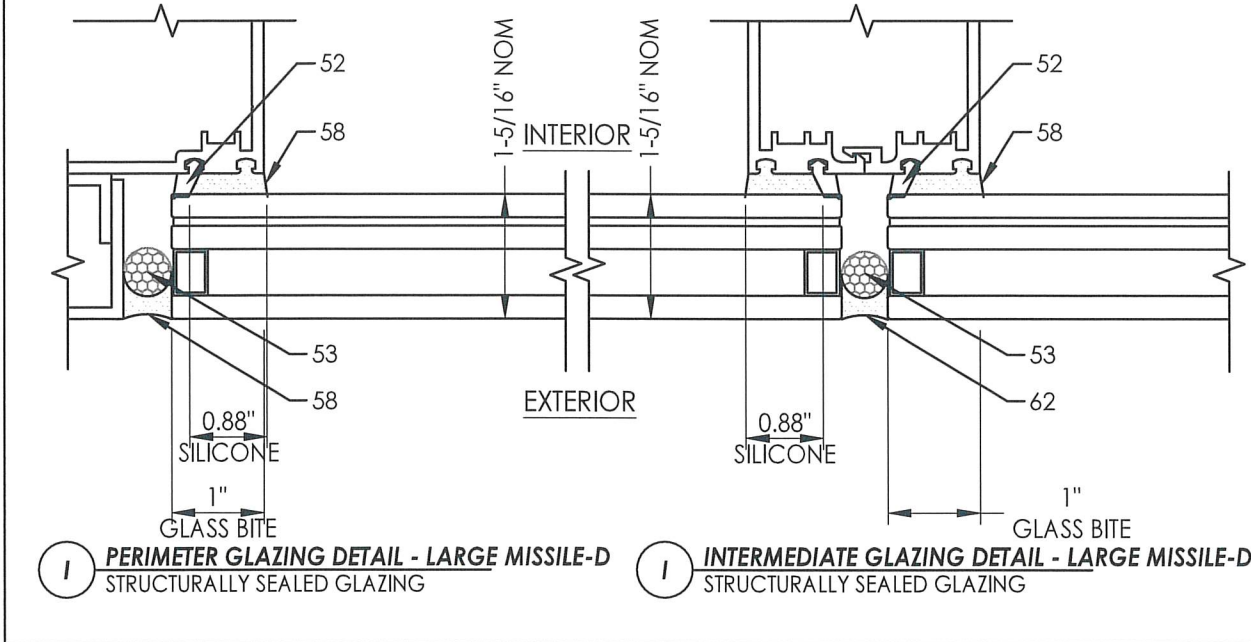
GLASS TYPE G7	GLASS TYPE G7T
1/4" HS	1/4" T
1/2" AIR SPACE	1/2" AIR SPACE
1/4" HS	1/4" HS
0.075" VANCEVA	0.075" VANCEVA
1/4" HS	1/4" HS

GLASS TYPE G8	GLASS TYPE G8T
1/4" HS	1/4" T
1/2" AIR SPACE	1/2" AIR SPACE
1/4" HS	1/4" HS
0.090" SGP	0.090" SGP
1/4" HS	1/4" HS

LARGE MISSILE D DETAILS

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	49.70 SF	±90	0.090" SGP
P3L	12.77 SF	±90	NA

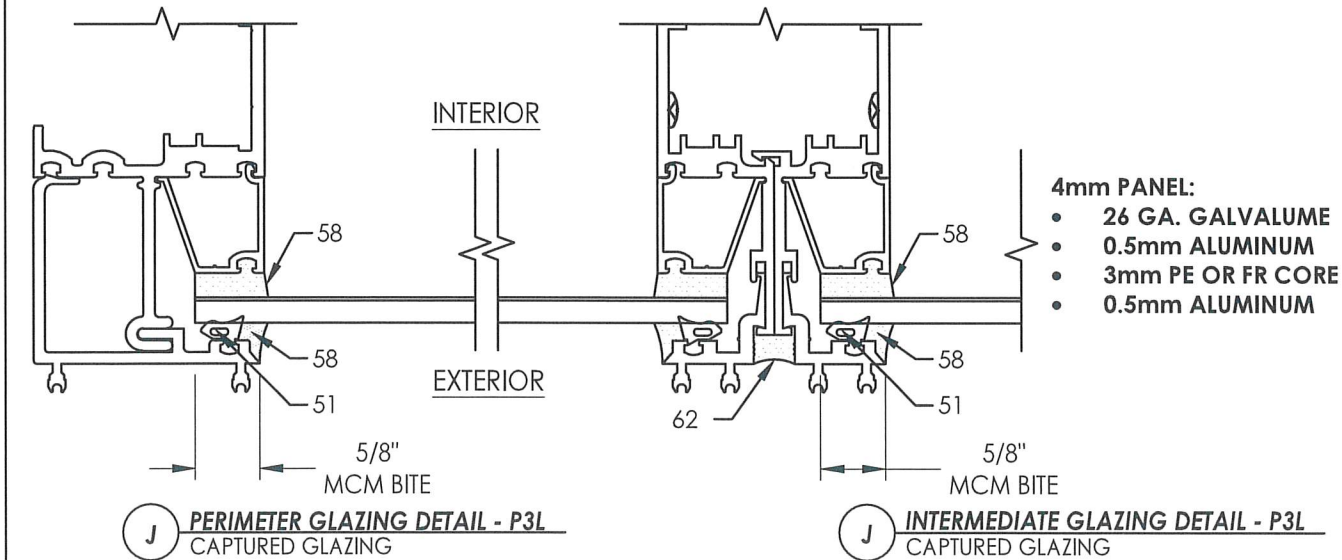
- NOTE :
1. ALUMINUM, STAINLESS STEEL OR THERMOPLASTIC SPACERS IN INSULATED UNITS, SILICONE TO BE PER GLASS MFG.
 2. INSULATED GLASS WITH HEAT STRENGTHENED OUTER LITES IS LIMITED TO 30' IN THE HVHZ.
 3. 0.075" VANCEVA IS EQUAL TO 0.075" SAFLEX STORM. ALL GLASS MAKE-UPS WITH VANCEVA CAN SUBSTITUTE WITH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



GLASS TYPE G6	GLASS TYPE G6T
1/4" HS	1/4" T
1/2" AIR SPACE	1/2" AIR SPACE
1/4" HS	1/4" HS
0.075" VANCEVA	0.075" VANCEVA
1/4" HS	1/4" HS

GLASS TYPE G7	GLASS TYPE G7T
1/4" HS	1/4" T
1/2" AIR SPACE	1/2" AIR SPACE
1/4" HS	1/4" HS
0.075" VANCEVA	0.075" VANCEVA
1/4" HS	1/4" HS

GLASS TYPE G8	GLASS TYPE G8T
1/4" HS	1/4" T
1/2" AIR SPACE	1/2" AIR SPACE
1/4" HS	1/4" HS
0.090" SGP	0.090" SGP
1/4" HS	1/4" HS



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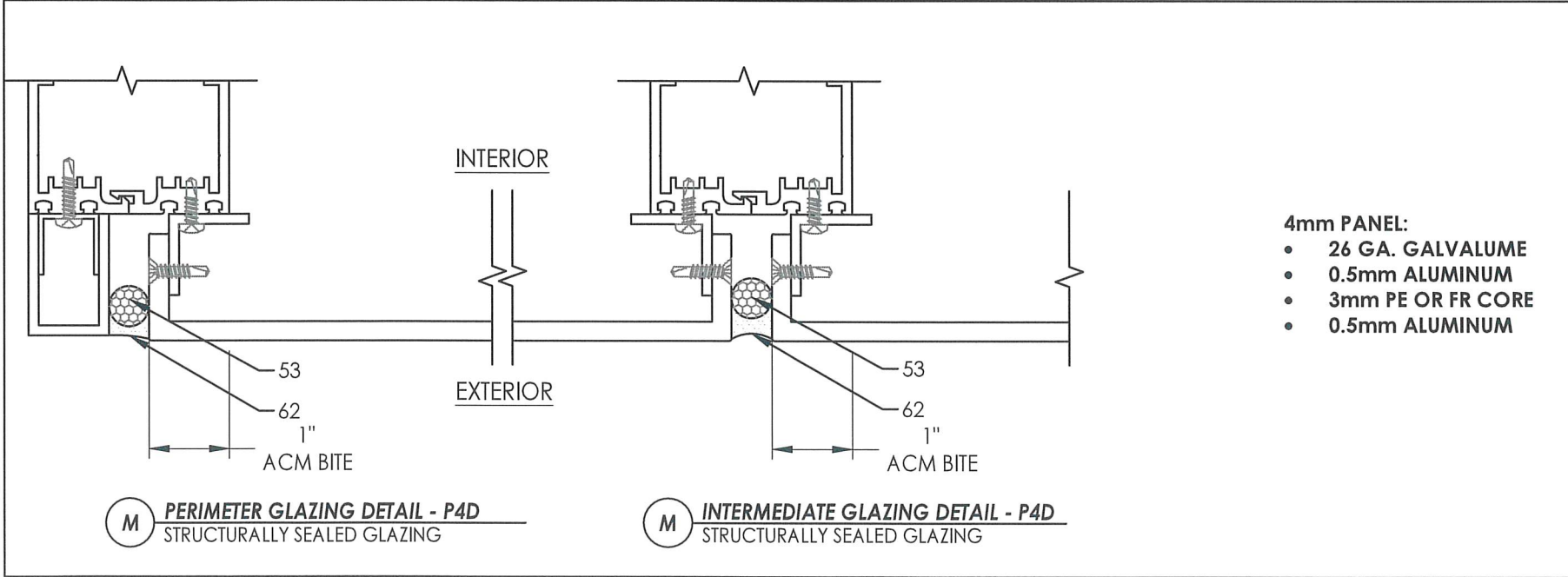
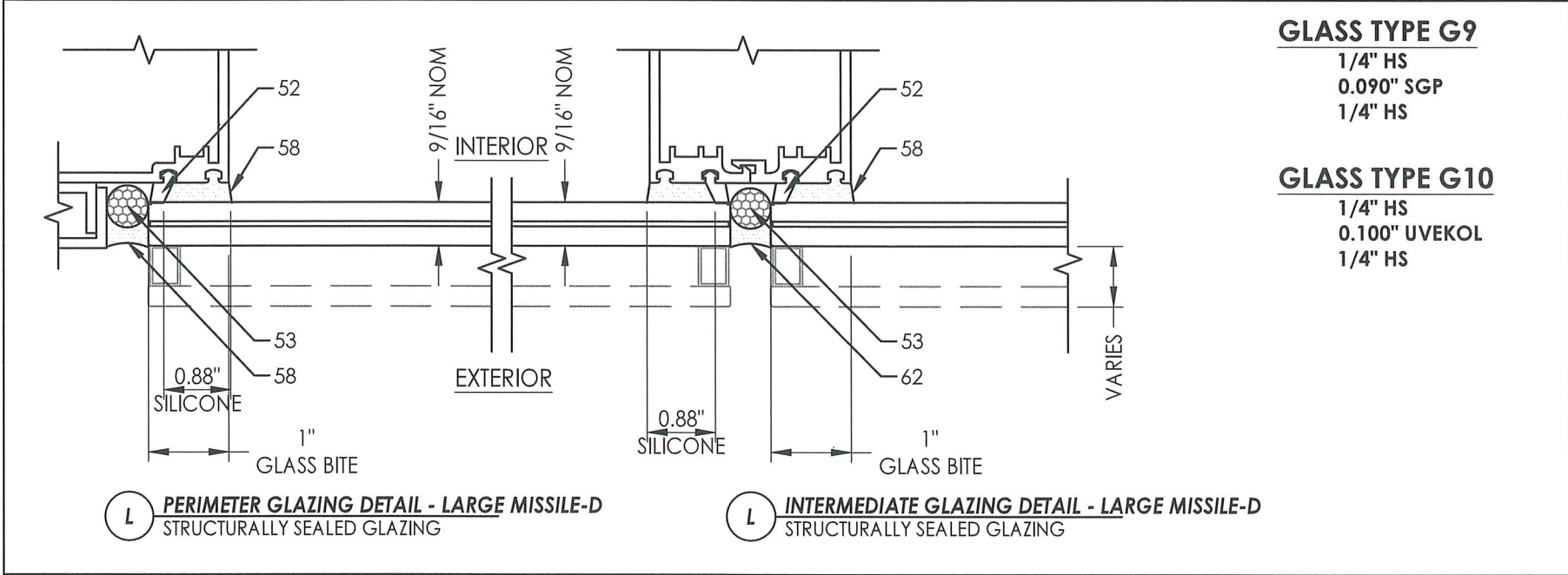
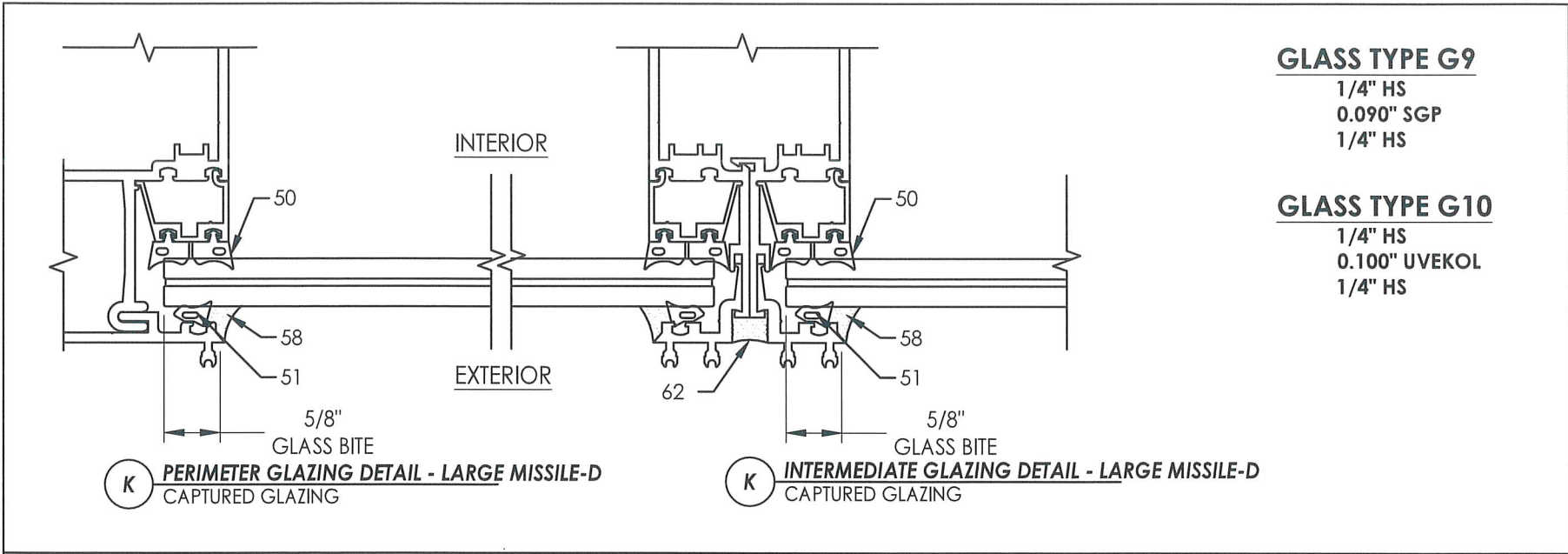
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LARGE MISSILE D DETAILS

TYPE	MAX SQ FT	MAX PSF		INTERLAYER
		CAP	SSG	
G9	40.12 SF	±90	±75	0.090" SGP
G10	39.95 SF	±90	±75	0.100" UVEKOL
P4D	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.

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FL 33412 OF

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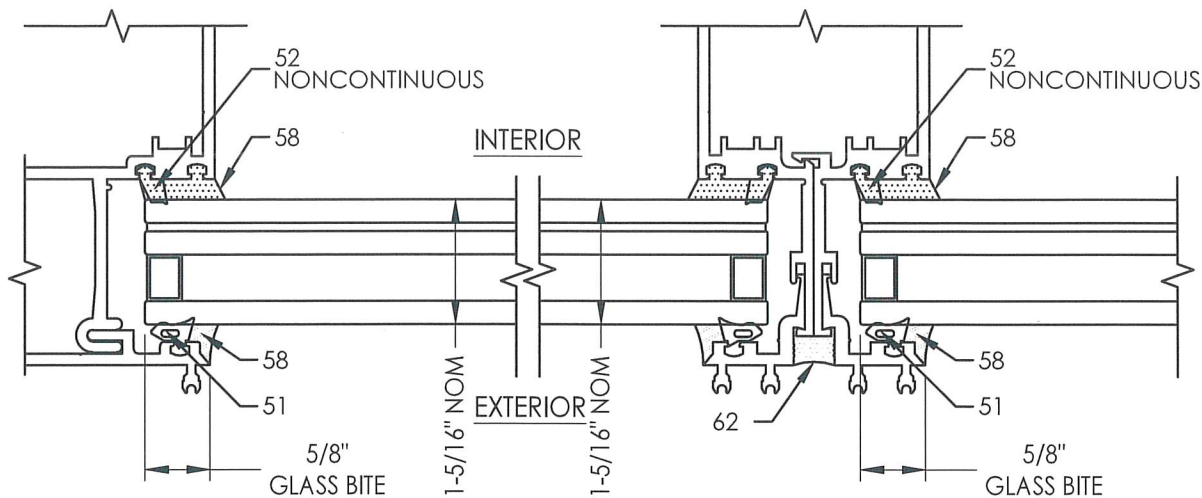
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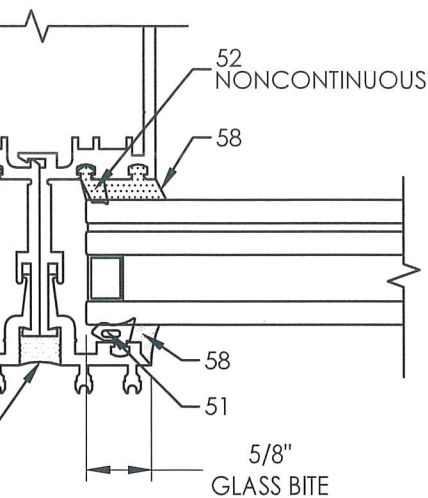
WTG 500 SERIES

LAST SAVE: 2024-7-3 KK HAYKHAM

PLOT DATE: 2024-7-3



N PERIMETER GLAZING DETAIL - LARGE MISSILE-E
CAPTURED GLAZING



N INTERMEDIATE GLAZING DETAIL - LARGE MISSILE-E
CAPTURED GLAZING

GLASS TYPE G11

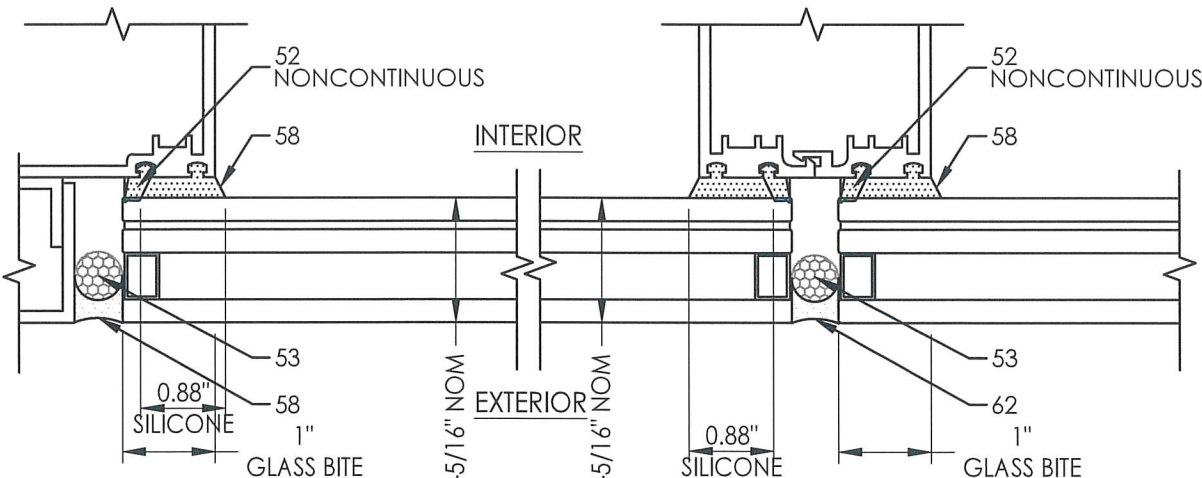
1/4" HS
1/2" AIR SPACE
1/4" HS
0.18" SGP
1/4" HS

GLASS TYPE G11T

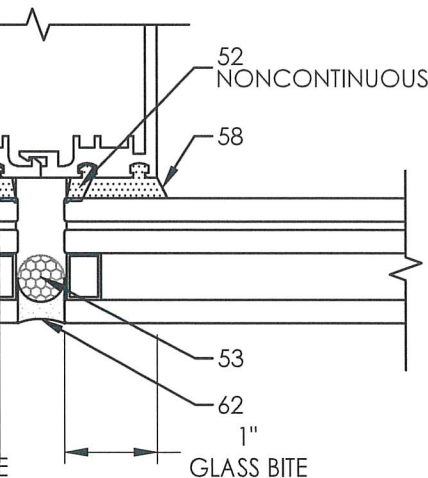
1/4" T
1/2" AIR SPACE
1/4" HS
0.18" SGP
1/4" HS

GLASS TYPE G13

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



O PERIMETER GLAZING DETAIL - LARGE MISSILE-E
STRUCTURALLY SEALED GLAZING



O INTERMEDIATE GLAZING DETAIL - LARGE MISSILE-E
STRUCTURALLY SEALED GLAZING

GLASS TYPE G11

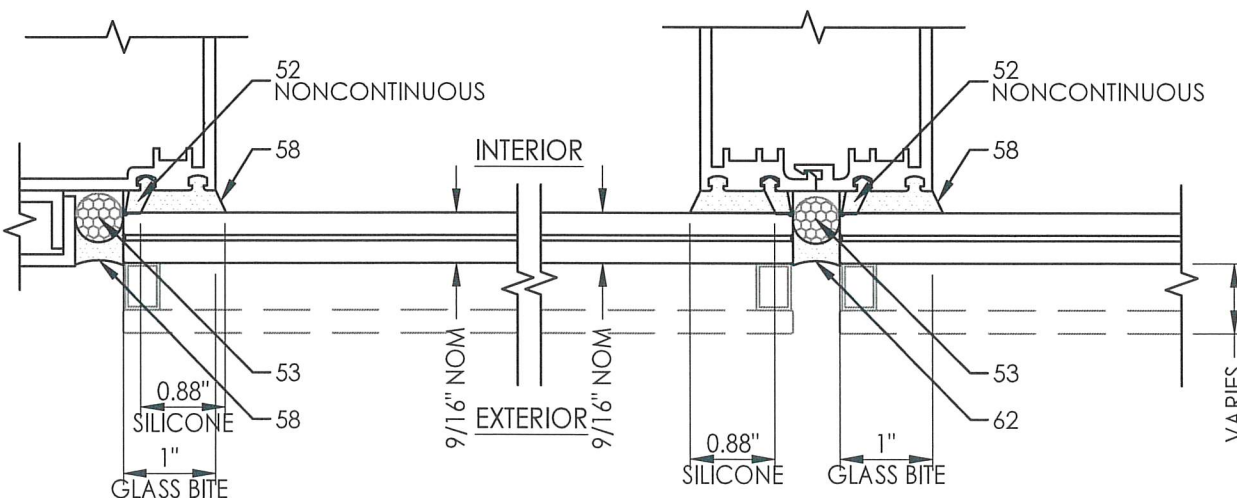
1/4" HS
1/2" AIR SPACE
1/4" HS
0.18" SGP
1/4" HS

GLASS TYPE G11T

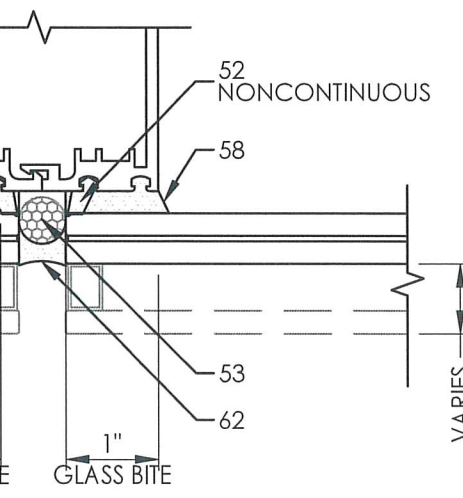
1/4" T
1/2" AIR SPACE
1/4" HS
0.18" SGP
1/4" HS

GLASS TYPE G13

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



P PERIMETER GLAZING DETAIL - LARGE MISSILE-E
STRUCTURALLY SEALED GLAZING



P PERIMETER GLAZING DETAIL - LARGE MISSILE-E
STRUCTURALLY SEALED GLAZING

GLASS TYPE G12

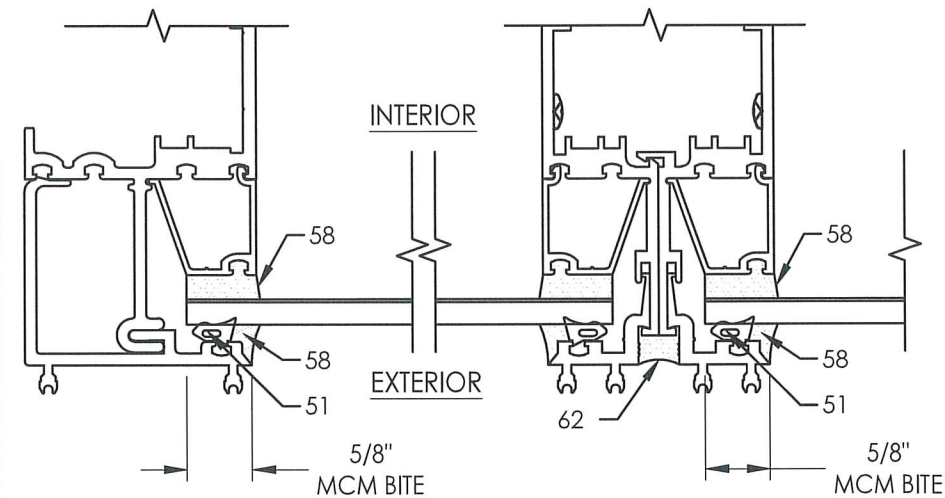
1/4" HS
0.18" SGP
1/4" HS

MISSILE E DETAILS

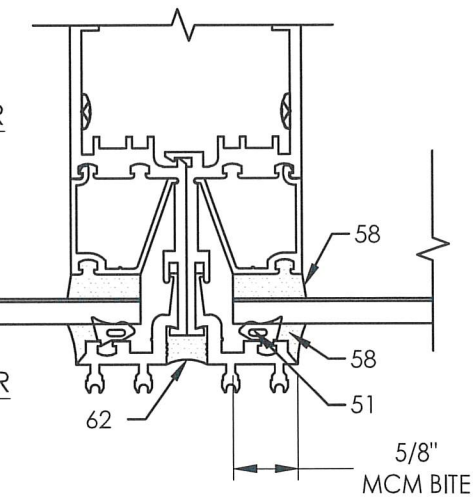
TYPE	MAX SQ FT	MAX PSF	INTERLAYER
G11/G11T	49.70 SF	±90	0.18" SGP
G12	39.95 SF	±90	0.18" SGP
P4E	14.28 SF	±65	NA
G13	40.00 SF	±90	0.15" VSO2

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.



Q PERIMETER GLAZING DETAIL - P4E
STRUCTURALLY SEALED GLAZING



Q INTERMEDIATE GLAZING DETAIL - P4E
STRUCTURALLY SEALED GLAZING

4mm PANEL:

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

WTG 500 SERIES

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15211 97th Road N.
West Palm Beach,
FL 33412

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

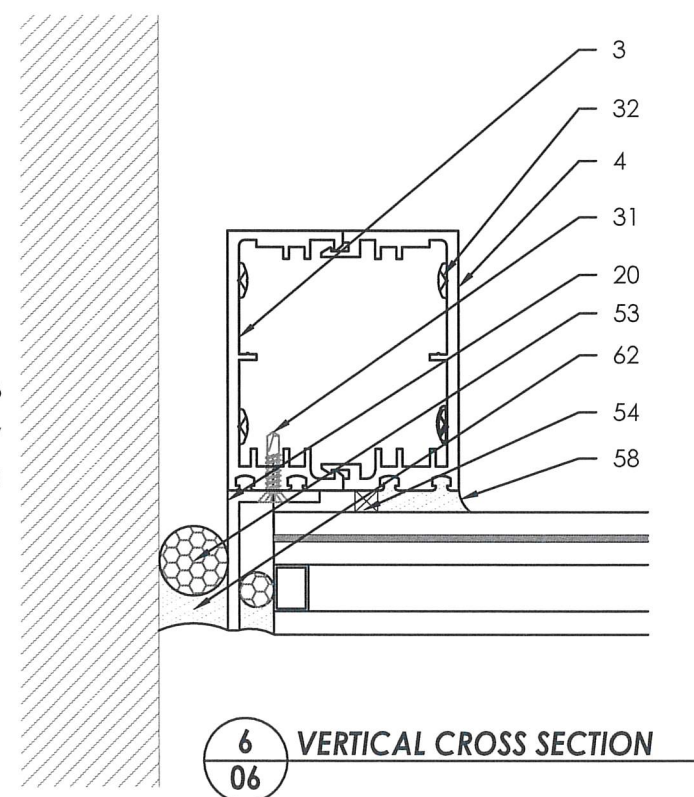
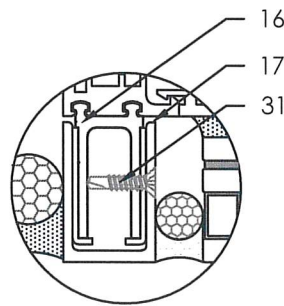
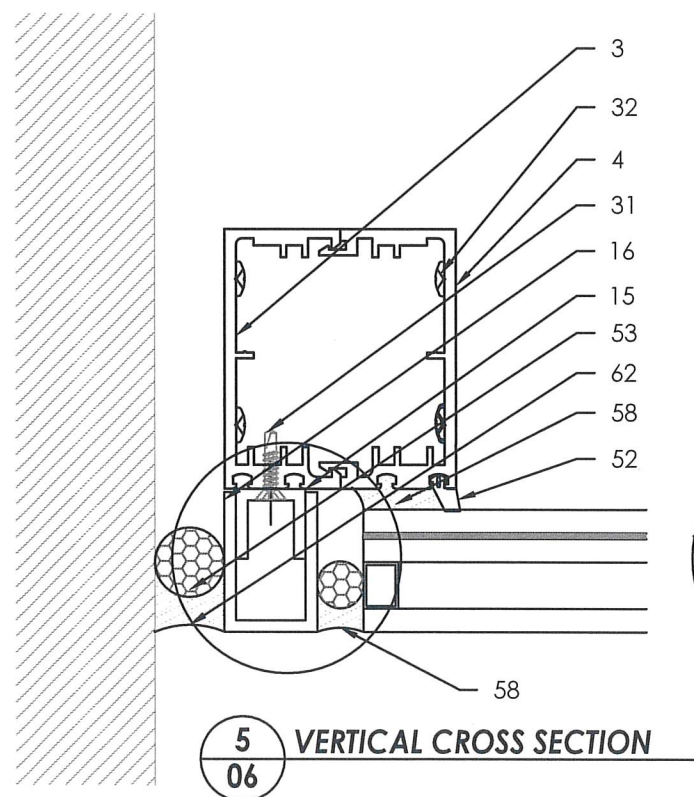
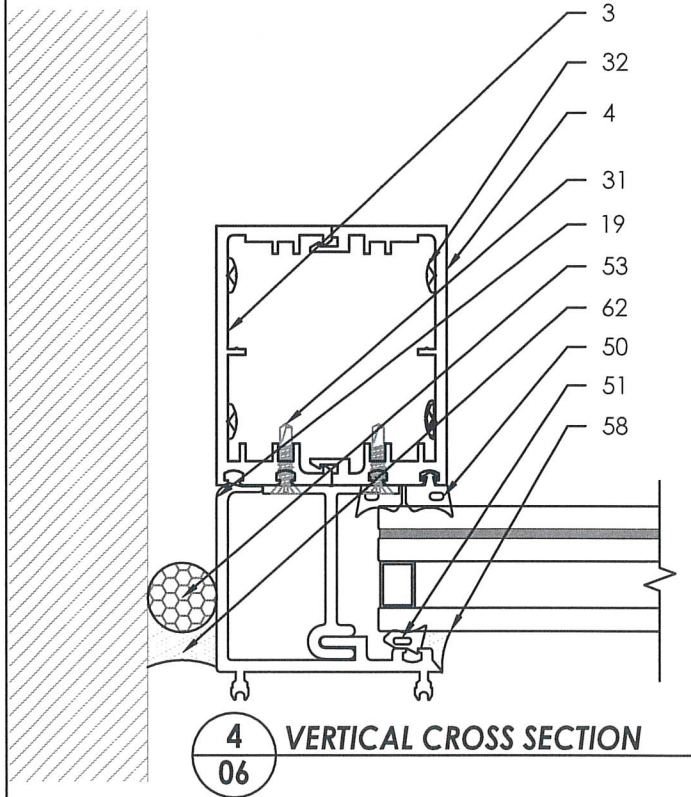
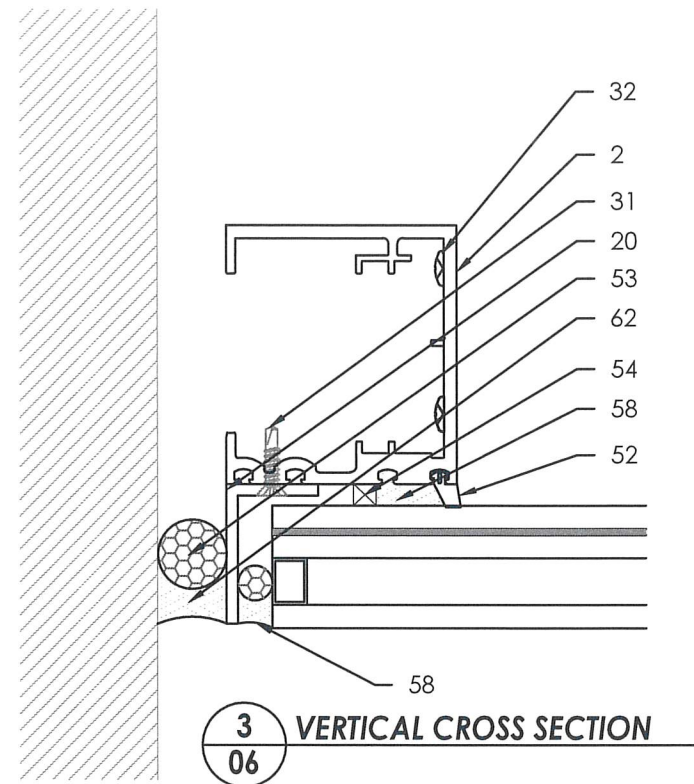
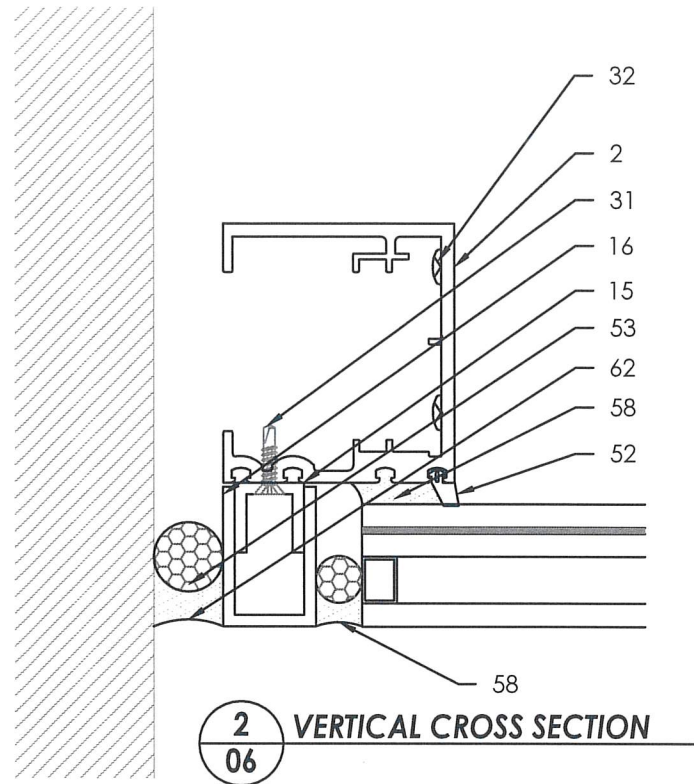
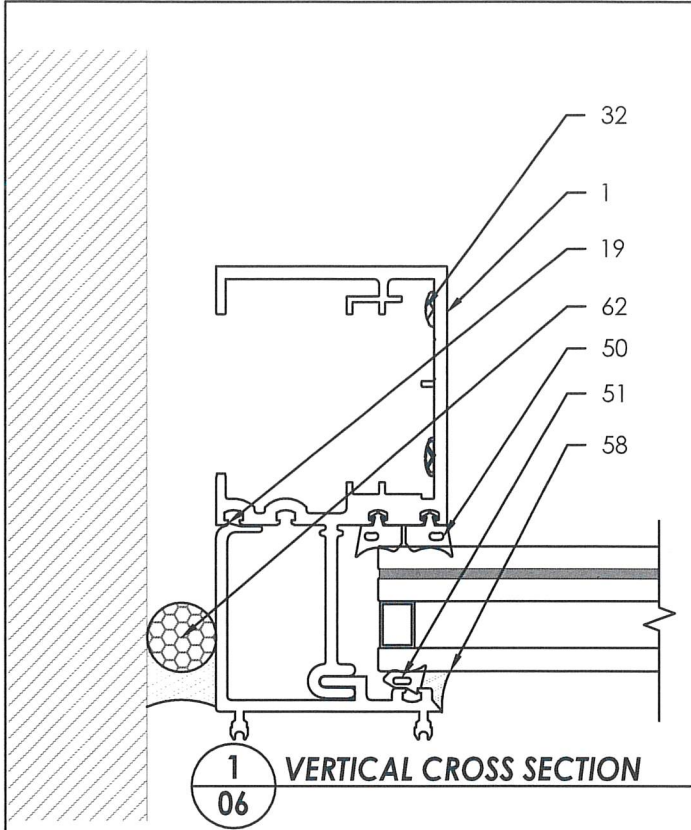
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DRAWN BY: KK

SHT: 05

0



NOTES:

1. LMI glazing details shown for reference. See sheets 2 - 5 for glazing option details.
2. Attach horizontal mullions to vertical mullions w/ item 32 at each end.
3. Steel reinforcement options per sheet 18.
4. Jamb mullions and caulk joint width must meet requirements of ASTM C1472



DRAWN BY: KK
SHT: 06

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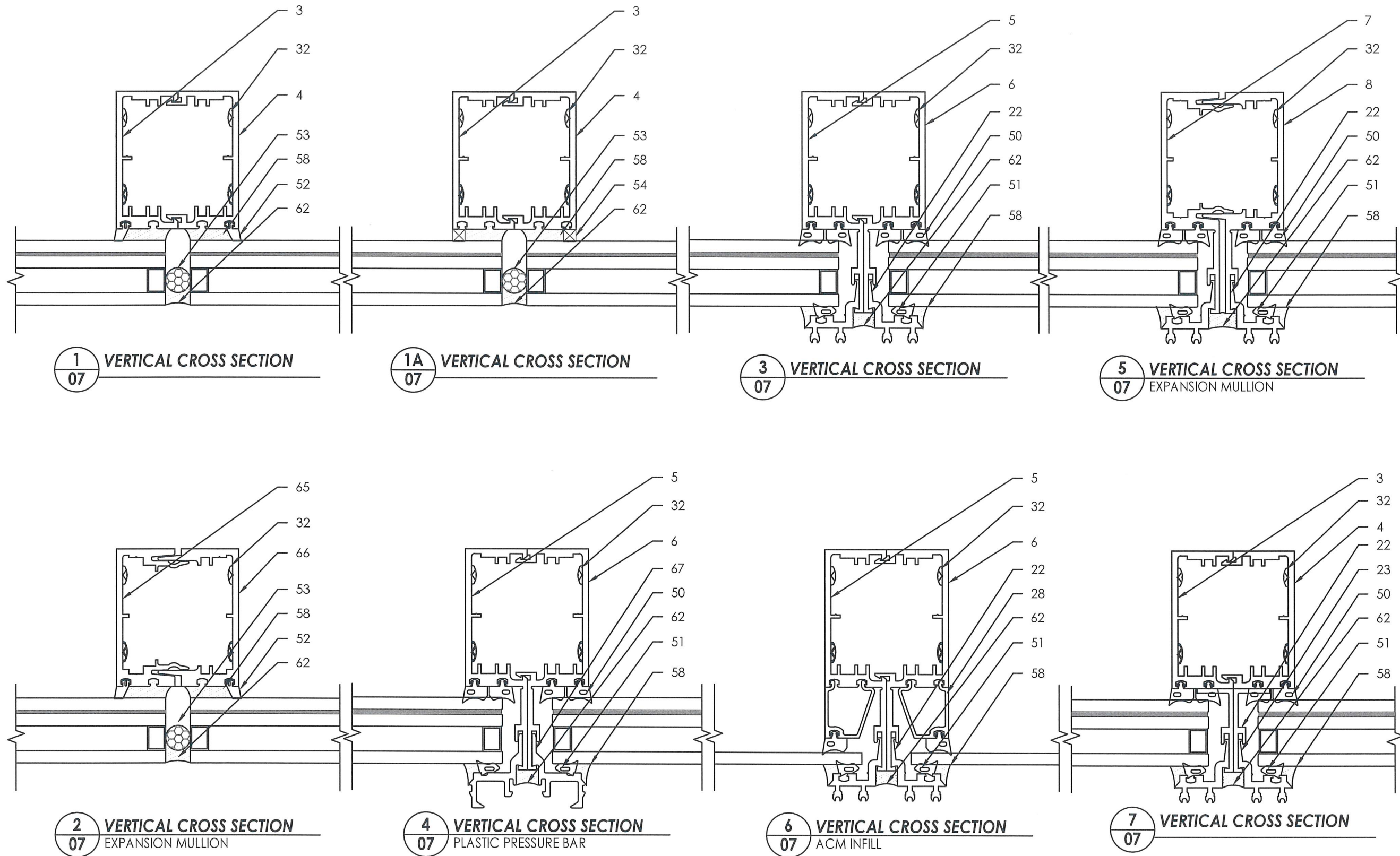
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SCOTT WOLTERS
ENGINEER
FL PE # 62354
Wolters Engineering, Inc.
(COA # 27198)
15211 97th Road N.
West Palm Beach,
FL 33412
06/03/2024

WTG 500 SERIES

PLOT DATE: 2024-7-3

LAST SAVE: 2024-7-3 KKHA YKHAM



NOTES:

1. LMI glazing details shown for reference. See sheets 2 - 5 for glazing option details.
2. Attach horizontal mullions to vertical mullions w/ item 32 at each end.
3. Steel reinforcement options per sheet 18.
4. Detail 4, 6 & 7 are applicable to expansion mullions items 7, 8, 65 & 66.

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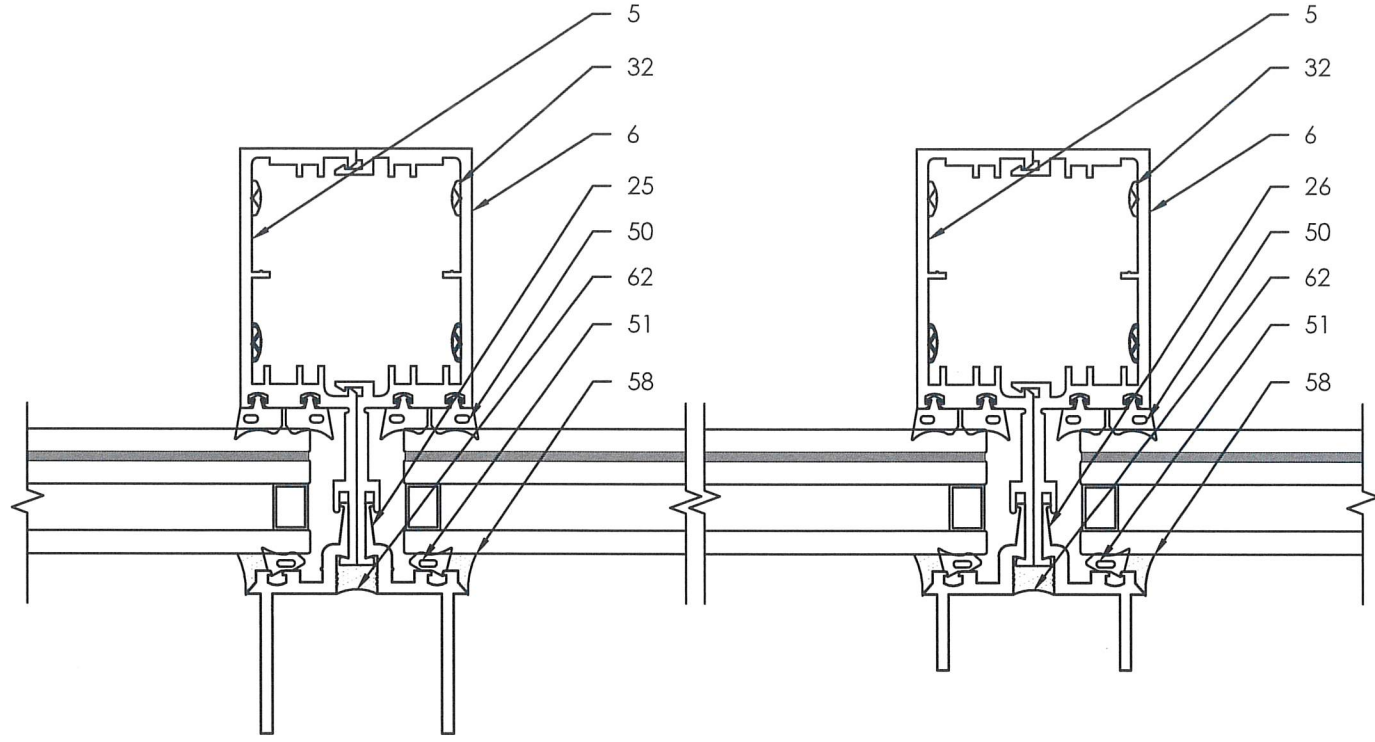
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SHT: 07

PLOT DATE: 2024-7-3

LAST SAVE: 2024-7-3 KKHA YKHAM



1 VERTICAL CROSS SECTION
07A PRESSURE BAR W/ WINGS

2 VERTICAL CROSS SECTION
07A PRESSURE BAR W/ WINGS

- NOTES:
1. LMI glazing details shown for reference. See sheets 2 - 5 for glazing option details.
 2. Attach horizontal mullions to vertical mullions w/ item 32 at each end.
 3. Steel reinforcement options per sheet 18.
 4. Detail 1 & 2 are applicable to expansion mullions items 7, 8, 65 & 66.



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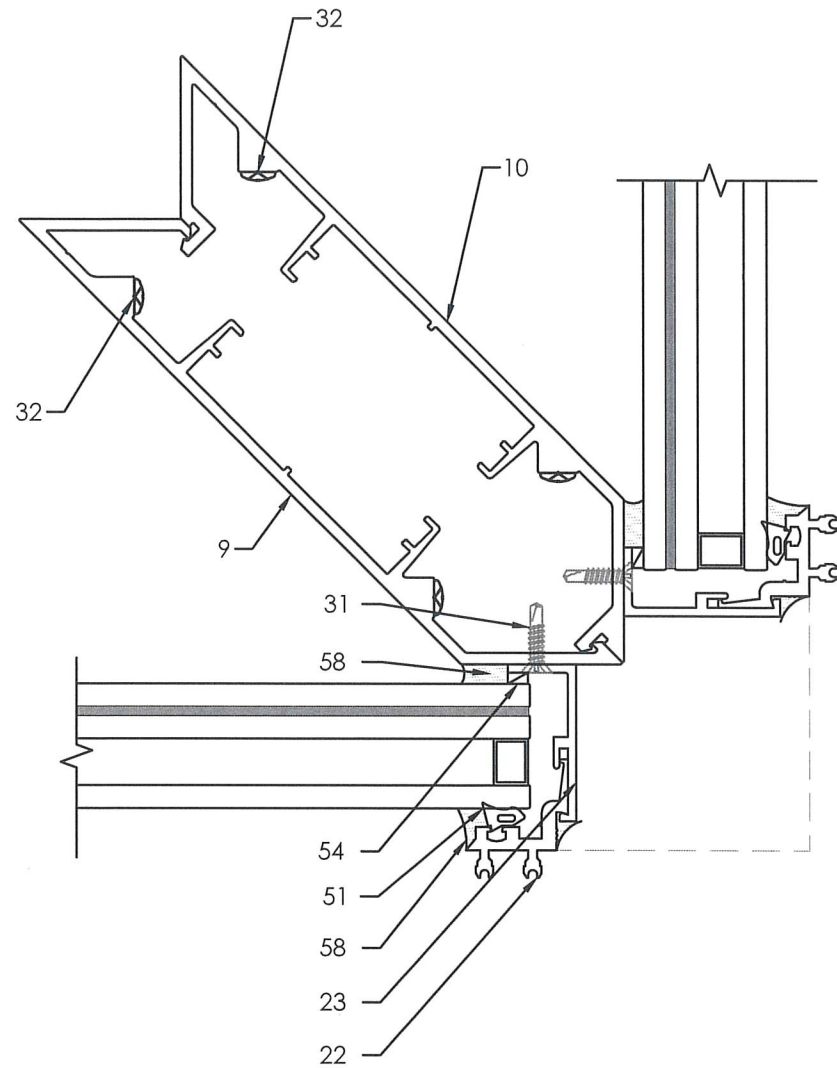
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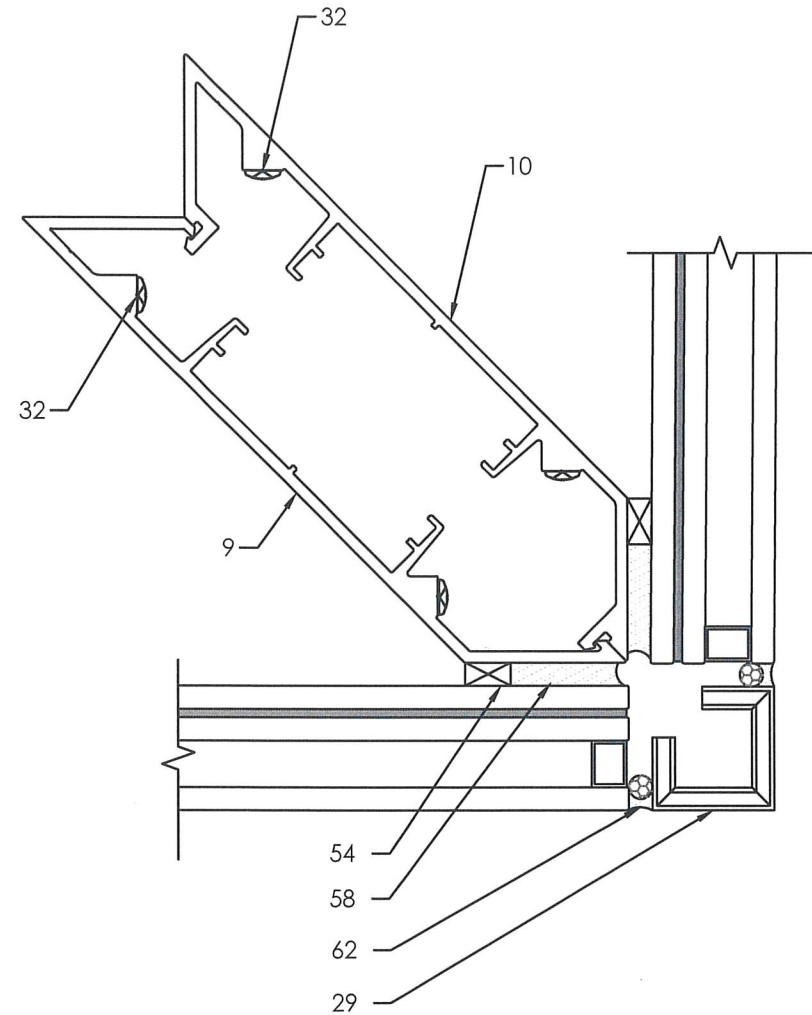
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Wolters Engineering, Inc.
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West Palm Beach,
FL 33412
JUL 03 2024

WTG 500 SERIES



1 VERTICAL CROSS SECTION
08 OUTSIDE CORNER



2 VERTICAL CROSS SECTION
08 Outside corner

NOTES:

1. LMI glazing details shown for reference. See sheets 2 - 5 for glazing option details.
2. Attach horizontal mullions to vertical mullions w/ item 32 at each end.
3. SEE SHEETS 18, 18B FOR STEEL REINFORCING REQUIREMENTS.



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SHT: 08



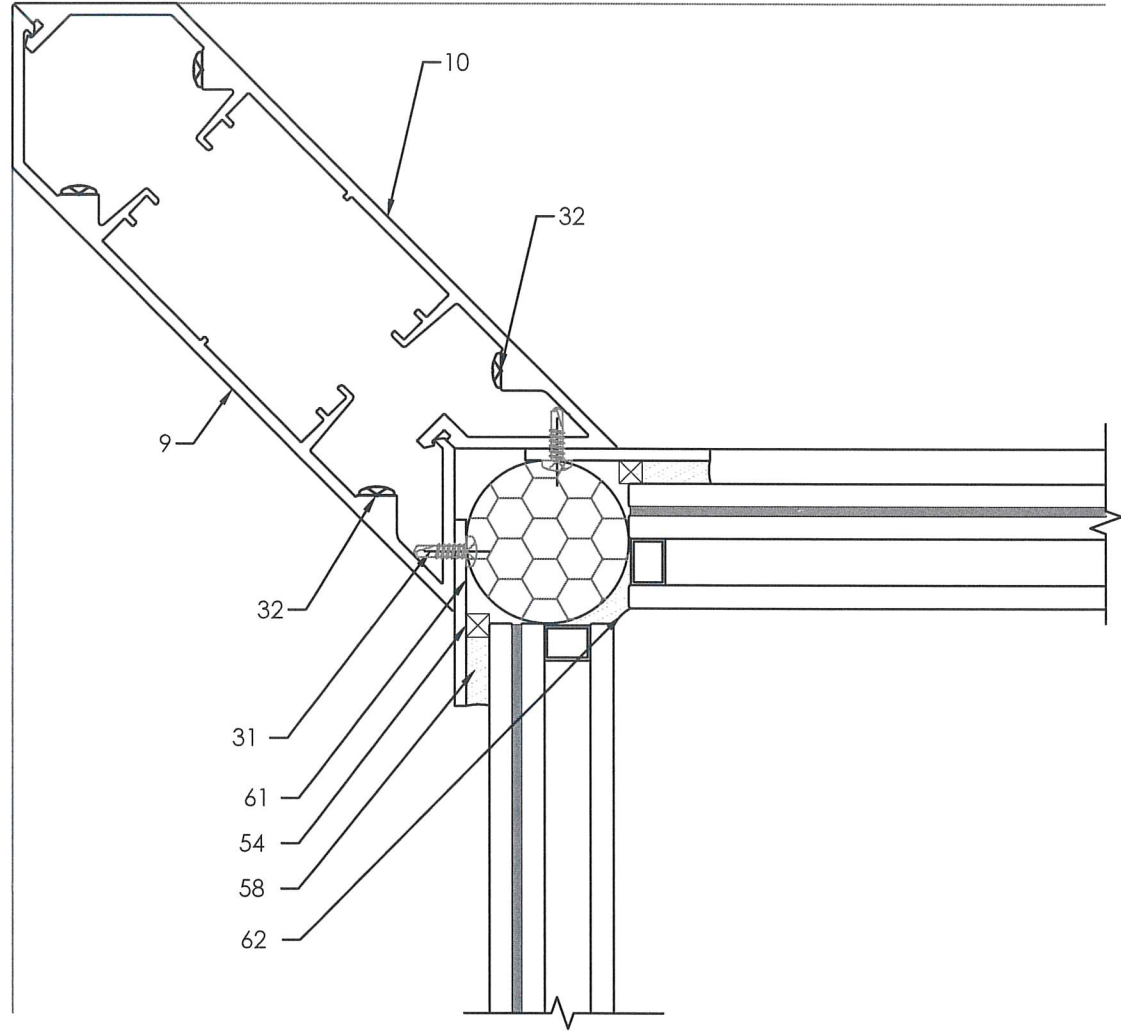
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Wolters Engineering, Inc.
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15211 97th Road N.
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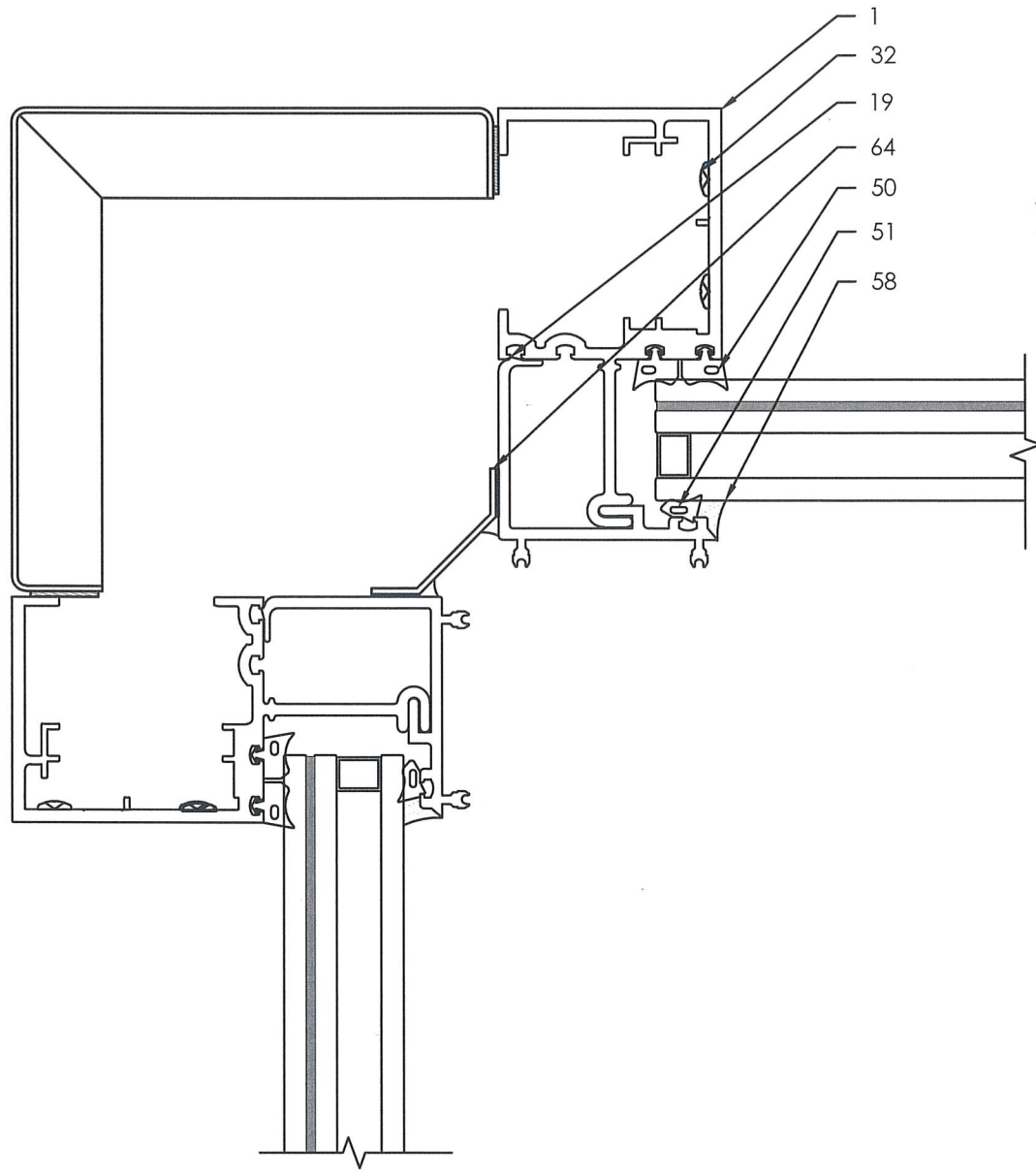
WTG 500 SERIES

PLOT DATE: 2024-7-3

LAST SAVE: 2024-7-3 KKHYKHAM



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 - 5 for glazing option details.
2. Attach horizontal mullions to vertical mullions w/ item 32 at each end.
3. SEE SHEETS 18, 18B FOR STEEL REINFORCING REQUIREMENTS.



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SHT: 09

REVISION	DATE	REV. #	DESCRIPTION
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	-	-	*
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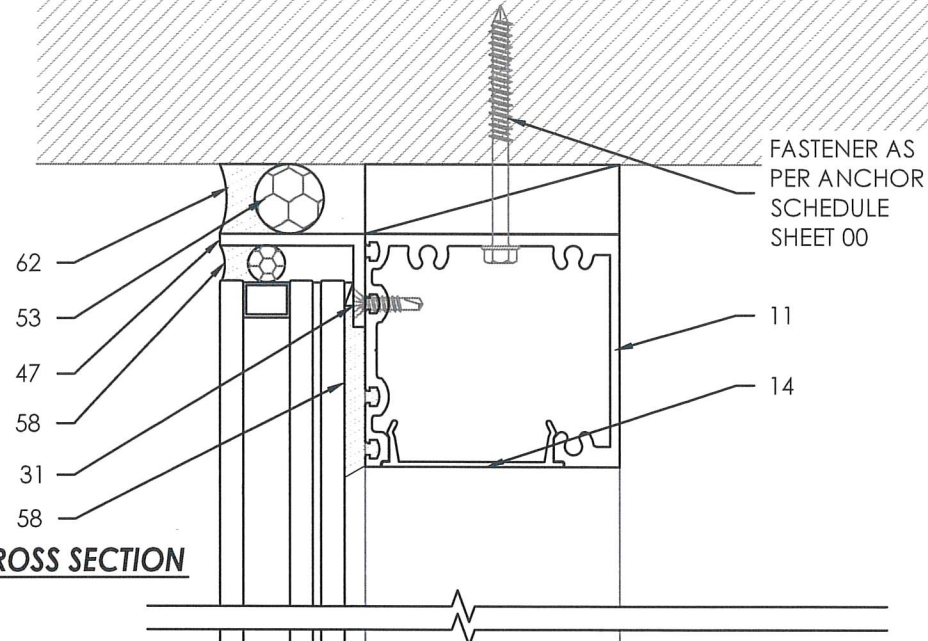
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Wolters Engineering, Inc.
(COA #27198)
15211 97th Road N.
West Palm Beach,
FL 33412
JUL 03 2024

WTG 500 SERIES

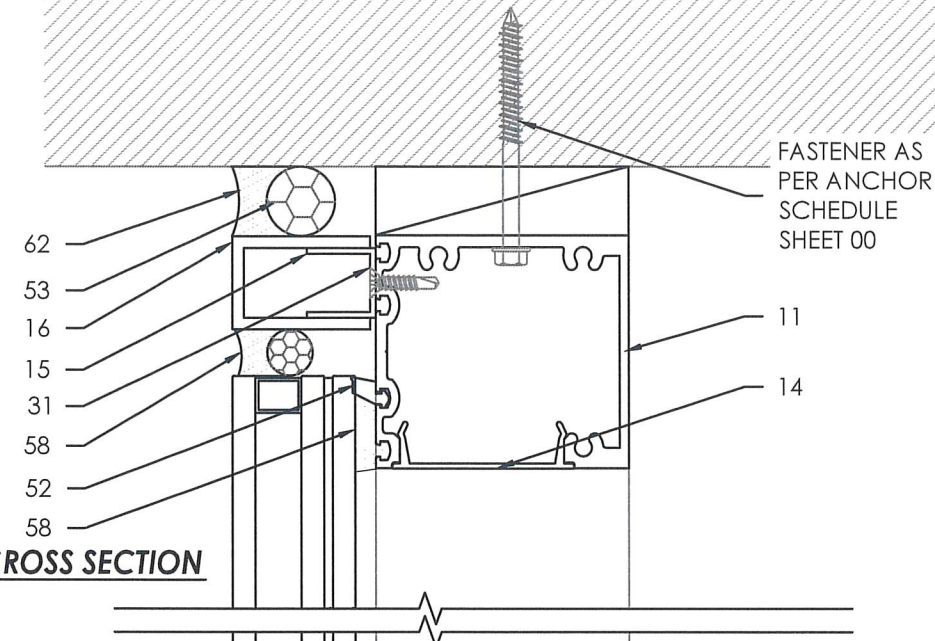
PLOT DATE: 2024-7-3

LAST SAVE: 2024-7-3 KKHA YKHAM

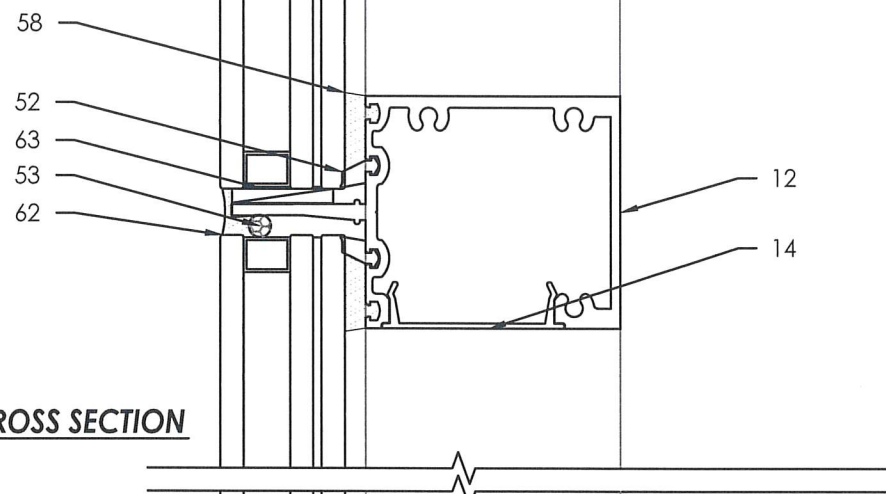
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10 **HORIZONTAL CROSS SECTION**
HEAD



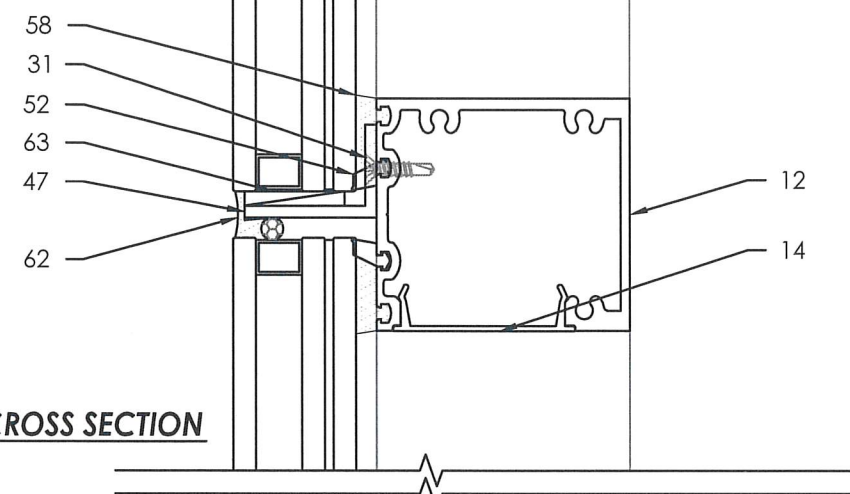
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10 **HORIZONTAL CROSS SECTION**
HEAD



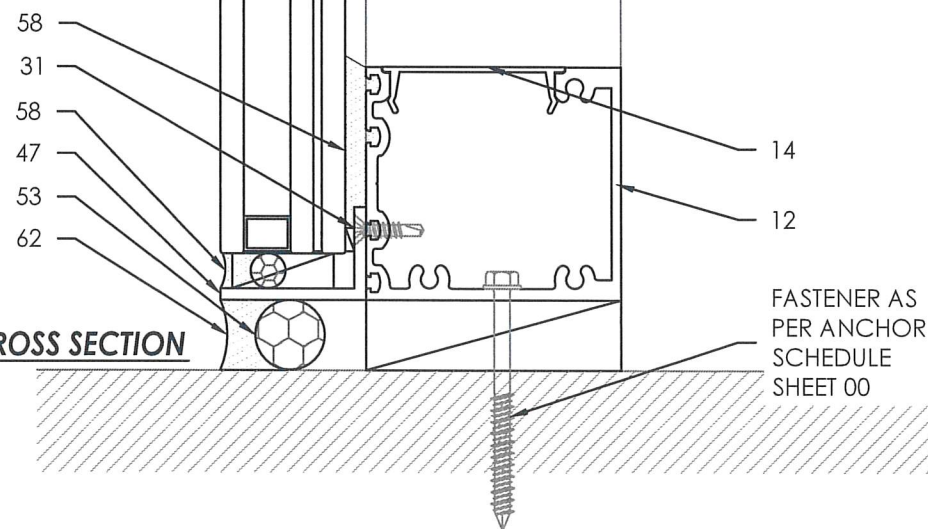
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10 **HORIZONTAL CROSS SECTION**
MULLION



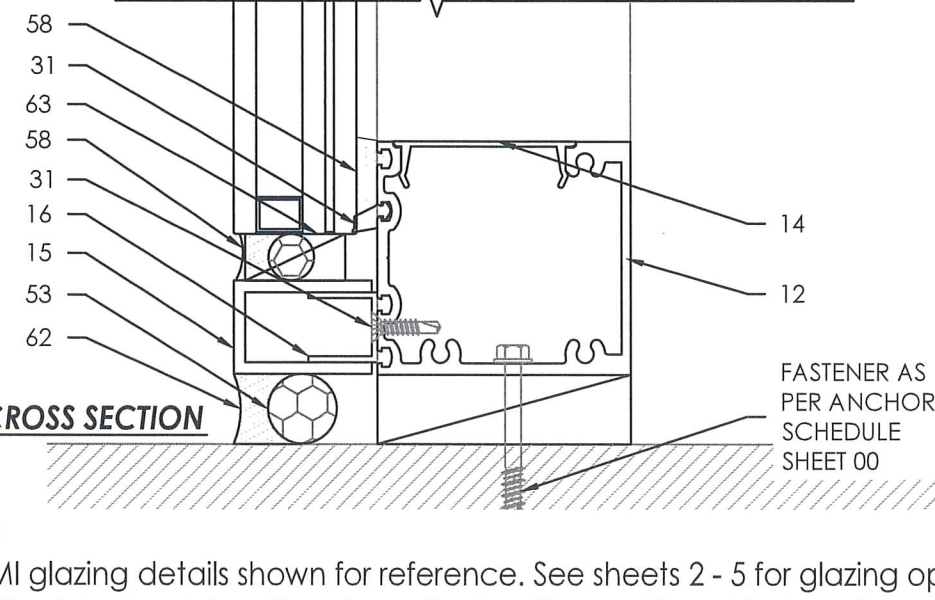
4
10 **HORIZONTAL CROSS SECTION**
MULLION



5
10 **HORIZONTAL CROSS SECTION**
SILL



6
10 **HORIZONTAL CROSS SECTION**
SILL



NOTES:

1. LMI glazing details shown for reference. See sheets 2 - 5 for glazing option details.
2. Attach horizontal mullions to vertical mullions w/ item 32 at each end.
3. Setting blocks are (2) per lite and meet the requirements of FBC Section 2411.3.3.1

WTG 500 SERIES

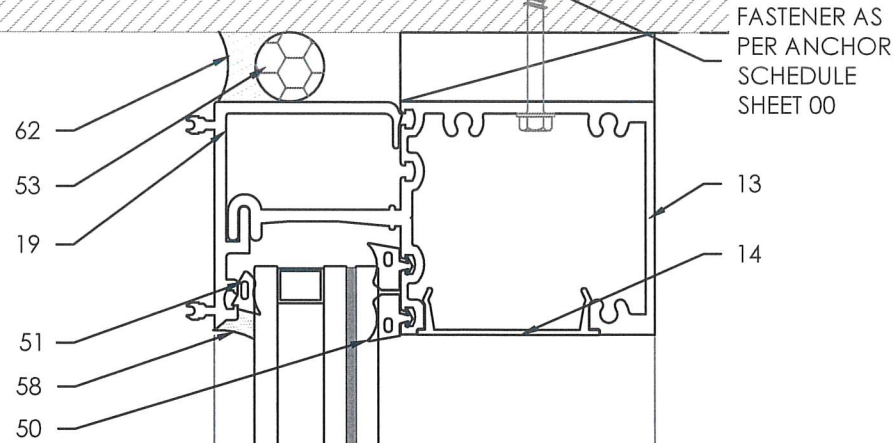
ENGINEER
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FL 33412-0601
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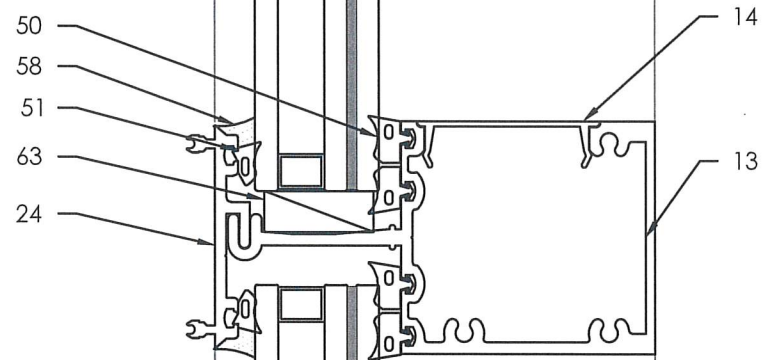
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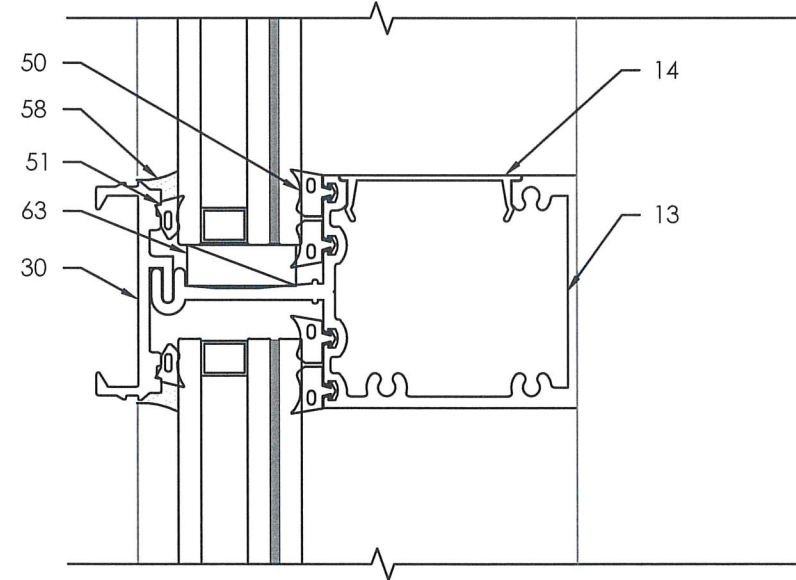
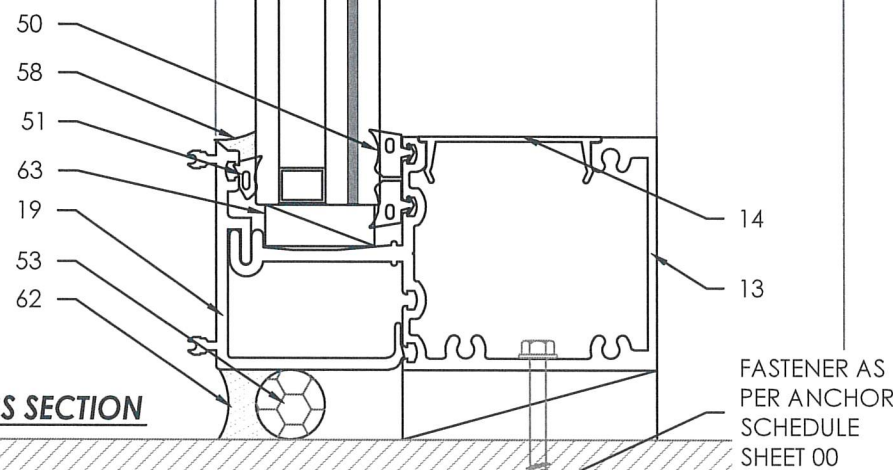
1
11 **HORIZONTAL CROSS SECTION**
HEAD



2
11 **HORIZONTAL CROSS SECTION**
MULLION



3
11 **HORIZONTAL CROSS SECTION**
SILL



4
11 **HORIZONTAL CROSS SECTION**
MULLION

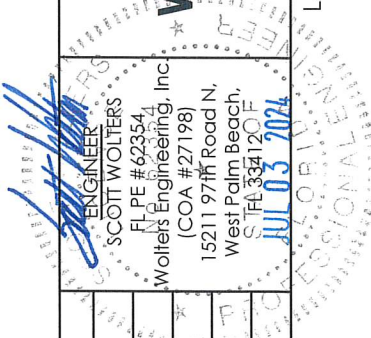
- NOTES:
1. LMI glazing details shown for reference. See sheets 2 - 5 for glazing option details.
 2. Attach horizontal mullions to vertical mullions w/ item 32 at each end.
 3. Setting blocks are (2) per lite and meet the requirements of FBC Section 2411.3.3.1



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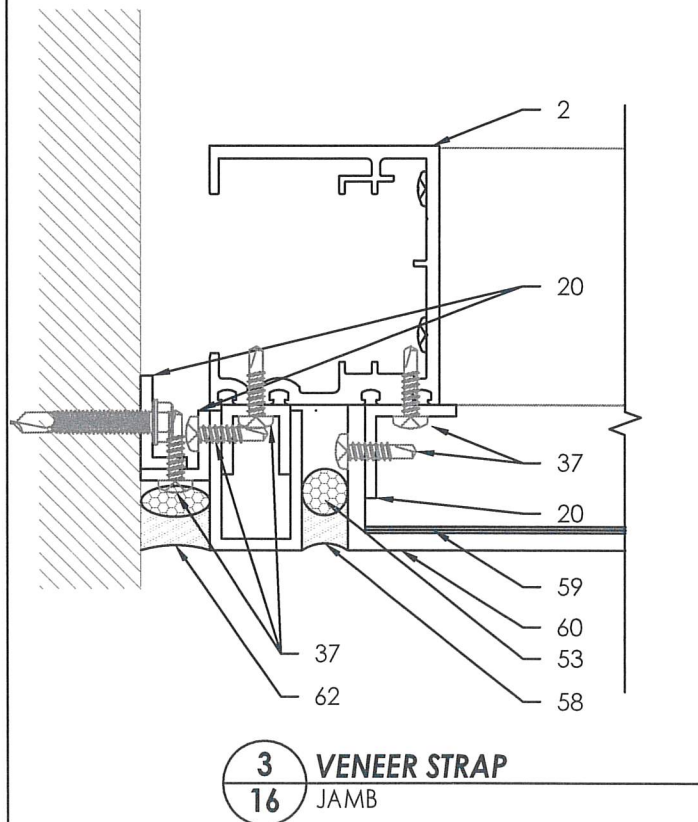
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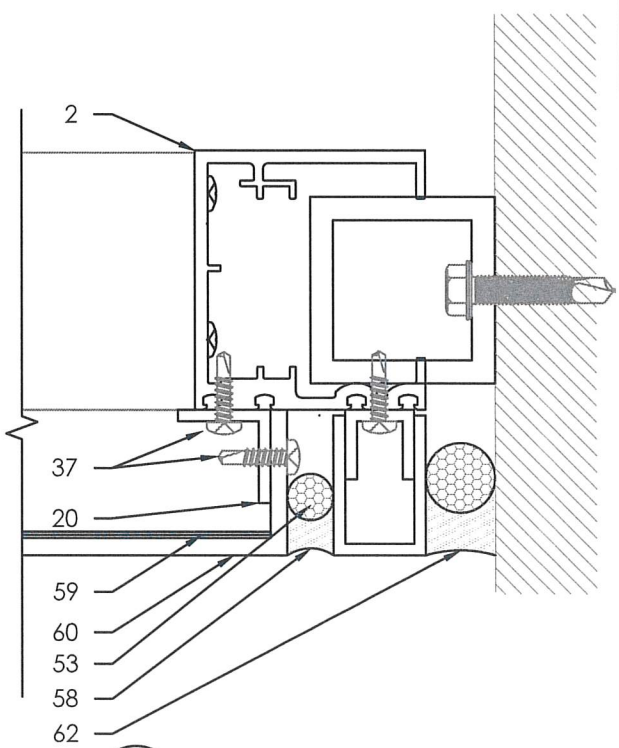
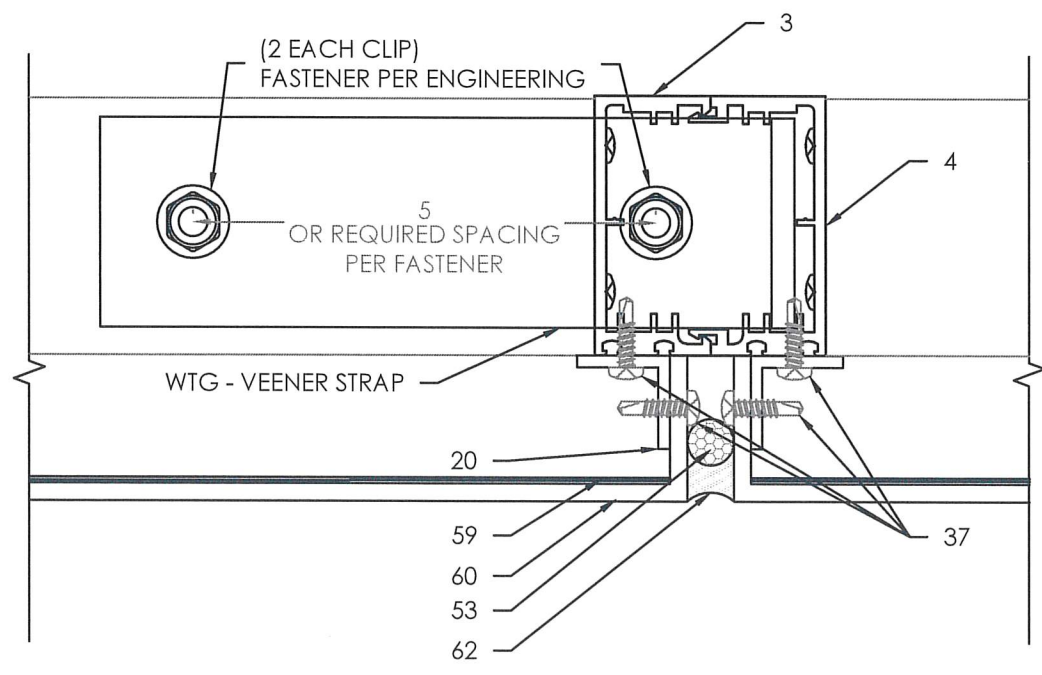
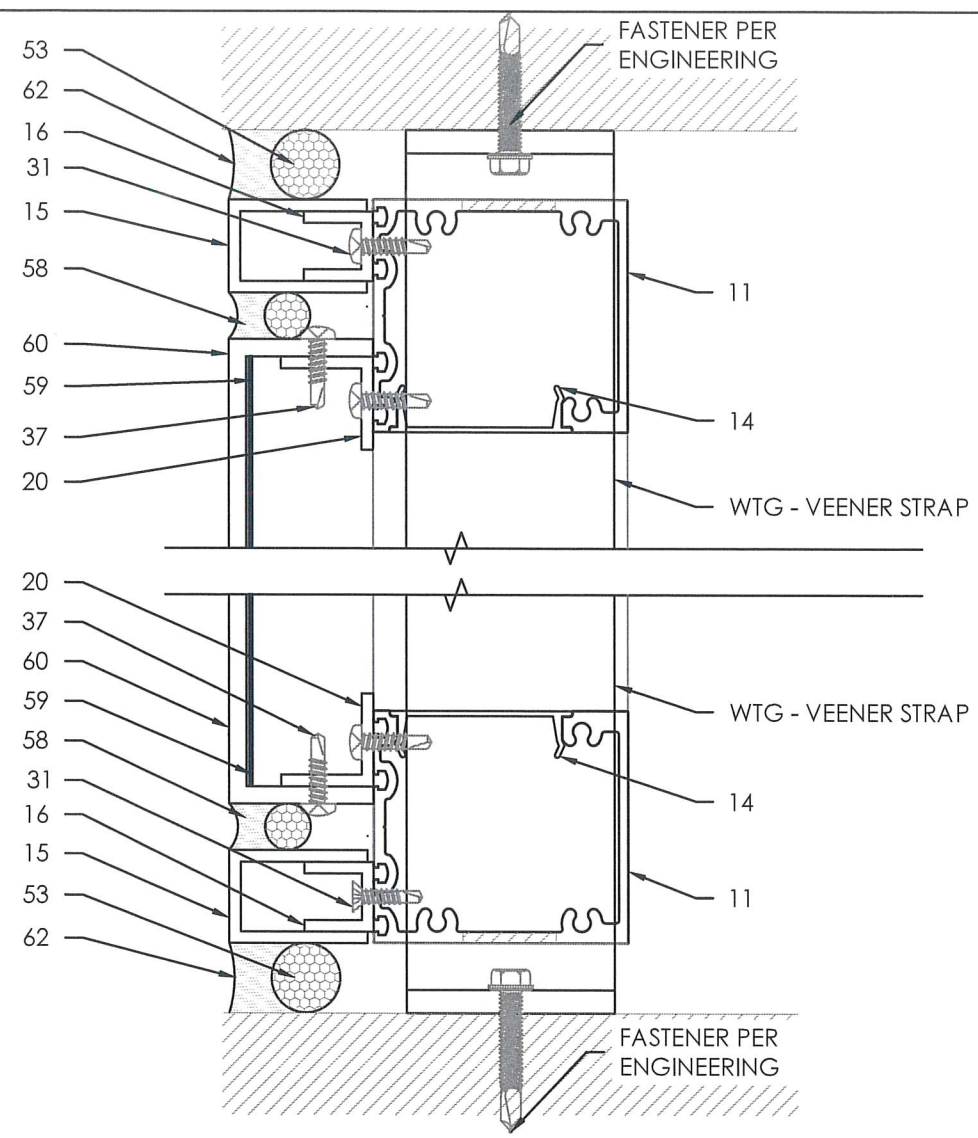
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(COA #27198)
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1/16 VENEER STRAP HEAD

2/16 VENEER STRAP SILL



5/16 VENEER STRAP JAMB

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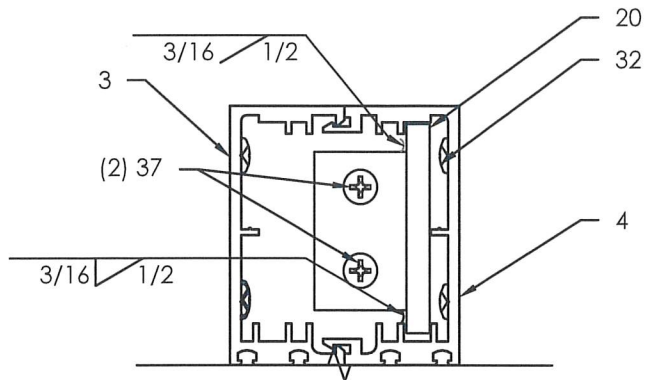
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 15211 97th Road N.
 West Palm Beach,
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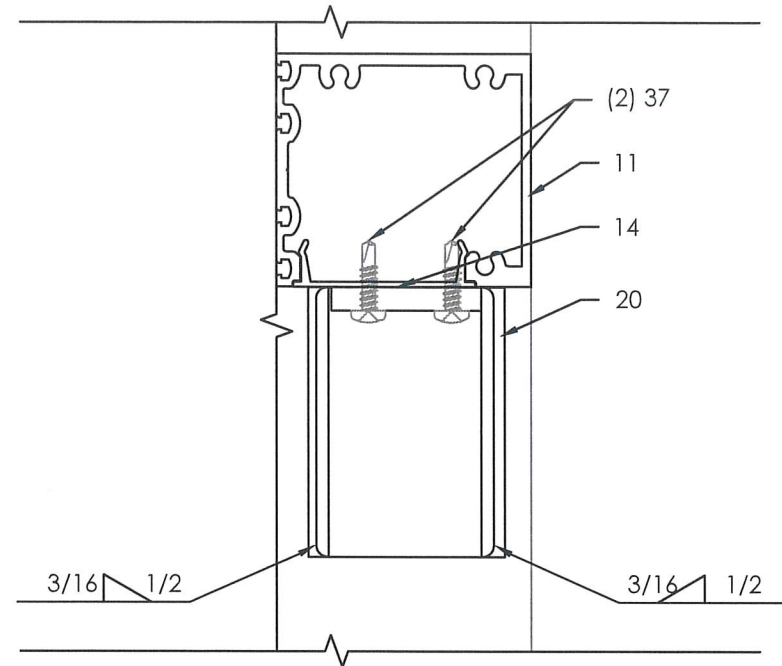
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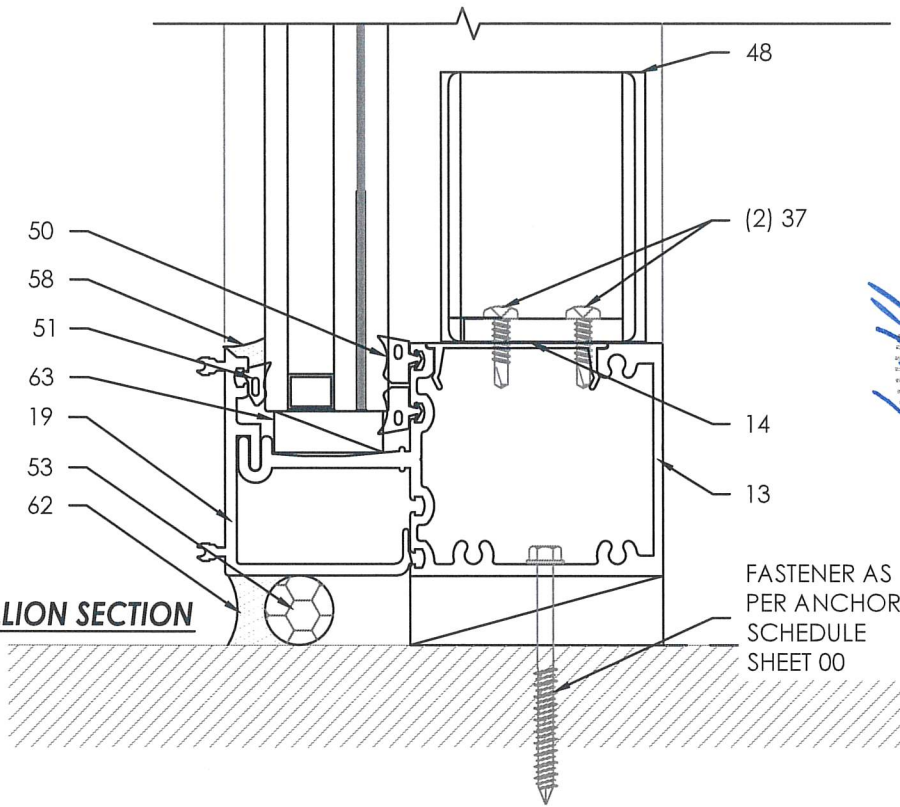
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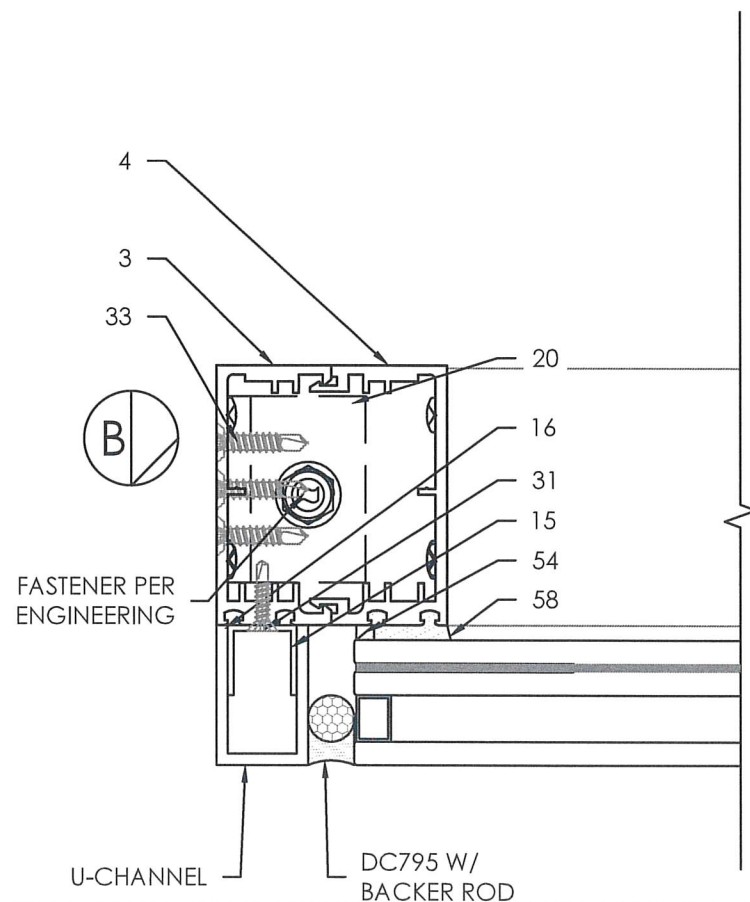
1
16 CRIPPLED MULLION PLAN



2
16 CRIPPLED MULLION SECTION

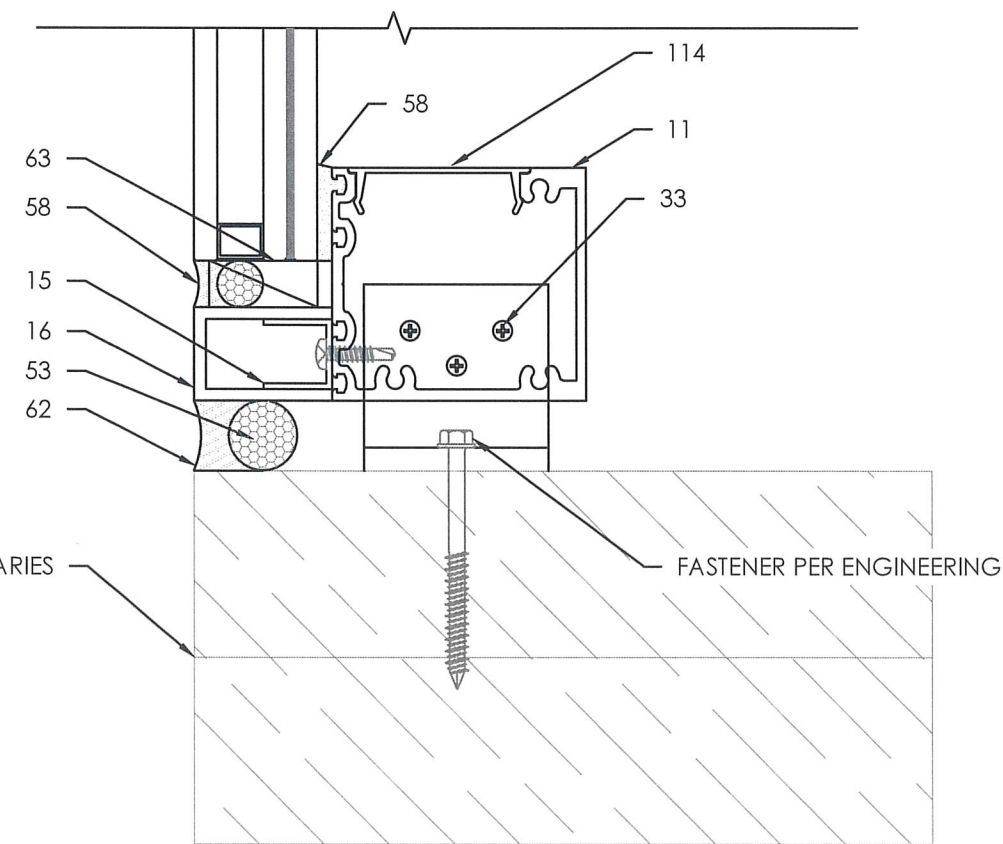


3
16 CRIPPLED MULLION SECTION



4
16A DOOR JAMB/SILL

MAX. WINDLOAD REACTION = 3483 LB (STEEL)
2040 LB (CONCRETE)



VIEW B

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TAMPA, FLORIDA 33605
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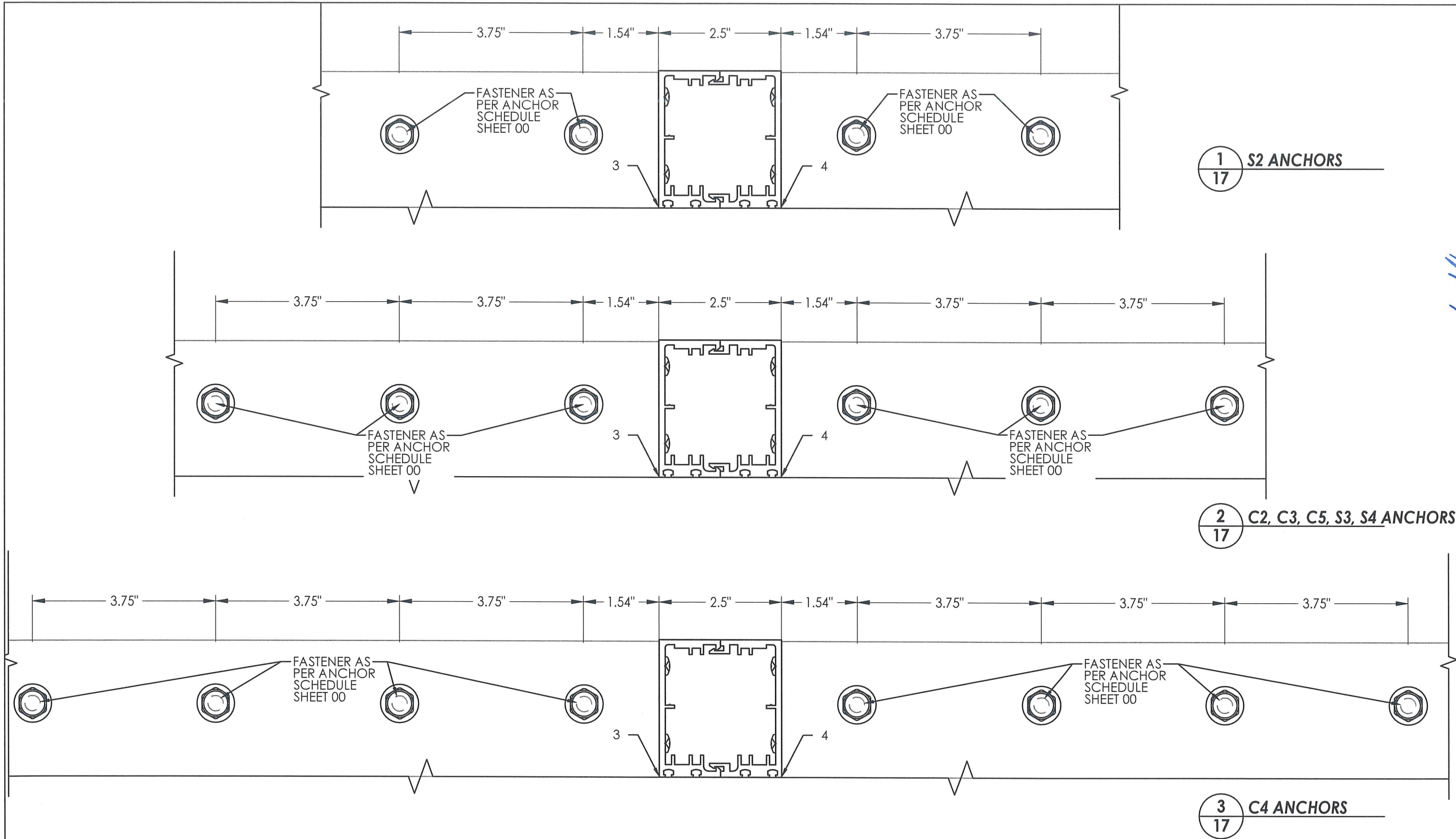
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Wolters Engineering, Inc.
(COA # 27198)
15211 97th Road N.
West Palm Beach,
FL 33412
JUL 03 2024

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DRAWN BY: KK

SHT: 16A

Plot Date: 2024-7-3



NOTES:

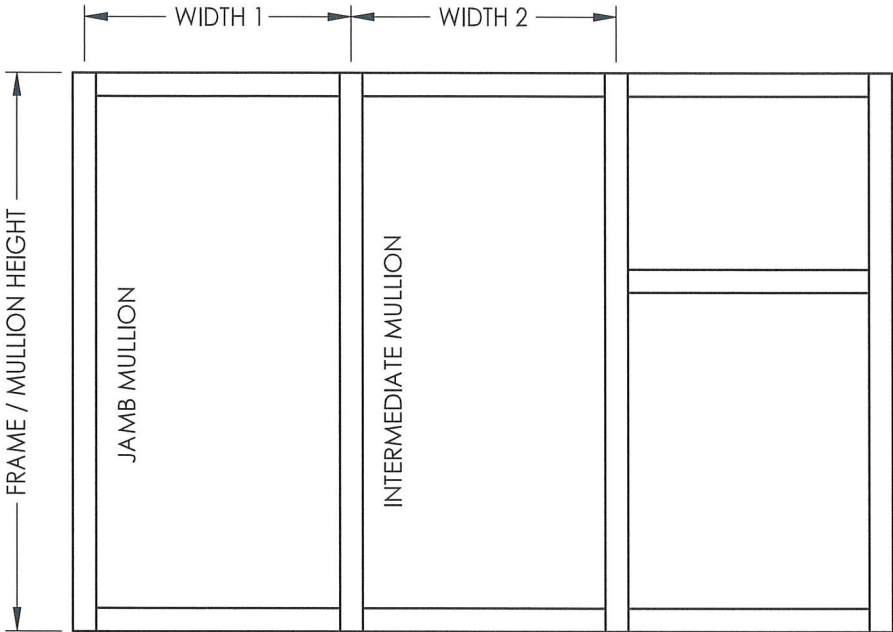
1. SEE ANCHOR CHART, COVER SHEET, FOR FASTENER TYPES, EMBEDMENT, EDGE DISTANCE REQUIREMENT.
2. ANCHORING OF CURTAIN WALL SYSTEM TO SUPPORTING STRUCTURE IS THE RESPONSIBILITY OF THE DELEGATED FL LICENSED ENGINEER FOR EACH PROJECT.
3. DIMENSIONS SHOWN AS TESTED AND MAY BE MODIFIED AS SPECIFIED BY FL LICENSED ENGINEER.

 WEST TAMPA GLASS CO. 2705 N. 35TH STREET TAMPA, FLORIDA 33605 PH. 813-247-5528 FAX. 813-247-6468				WTG 500 SERIES SCOTT WOLTERS FL PE #62354 Walters Engineering, Inc. (COA #27198) 15211 97th Road N. West Palm Beach, FL 33412 QF JUL 03 2024			
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WTG-500 MULLION CHART											
		ALLOWABLE DESIGN PRESSURE (psf)									
		CAPTURED MULLIONS						SSG MULLION	JAMB MULLION CAULK JOINT WIDTH		
HEIGHT (in)	WIDTH (in)	M0 (+/-)	M2 (+/-)	M4 (+/-)	M6 (+/-)	M8 (+/-)	M10 (+/-)	S10 (+/-)	1/2" - 3/4"	3/4" - 1"	
72	48	75	82	90	90	90	90	70	90	90	
	51	75	82	90	90	90	90	70	90	90	
	63	-	-	77.5	85.9	90	90	70	90	90	
	66	-	-	73.9	82	90	90	-	90	90	
	72	-	-	67.8	75.2	82.6	90	-	90	90	
84	36	75	82	90	90	90	90	70	90	90	
	44	75	82	90	90	90	90	70	90	90	
	54 1/2	-	-	83.9	90	90	90	70	90	90	
	65	-	-	69.2	76.1	83	90	-	90	90	
90	36	75	82	90	90	90	90	70	90	90	
	41	75	82	90	90	90	90	70	90	90	
	47 1/2	-	-	84.2	90	90	90	70	90	90	
	51	-	-	78.5	87.5	90	90	70	90	90	
	56	-	-	71.4	79.7	90	90	-	90	90	
96	60	-	-	66.7	74.4	82.2	90	-	90	90	
	32 1/2	75	82	90	90	90	90	70	90	90	
	38 1/2	70	80	90	90	90	90	70	90	90	
	47 1/2	-	-	76.4	86.3	90	90	70	90	90	
	51	-	-	71.2	80.4	89.6	90	-	90	90	
102	56	-	-	64.8	73.2	81.6	90	-	90	90	
	32 1/2	-	-	-	-	-	90	70	90	90	
	38 1/2	-	-	-	-	-	90	70	90	90	
	45	-	-	-	-	-	90	70	90	90	
108	53	-	-	-	-	-	80	-	83	90	
	32 1/2	-	-	-	-	-	90	70	90	90	
	38 1/2	-	-	-	-	-	90	70	90	90	
	42 1/2	-	-	-	-	-	89.1	64	82	90	
	50 1/2	-	-	-	-	-	75	-	69	90	

SEE SHEET 18B
FOR MULLION/REINFORCING
CONFIGURATIONS

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



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

REINFORCEMENT LEGEND	
	NO REINFORCEMENT
	(2) 1/8" STEEL BARS
	(2) 1/4" STEEL BARS
	(2) 1/8" + (2) 1/4" STEEL BARS
	(4) 1/4" STEEL BARS
	(2) 1/8" + (4) 1/4" STEEL BARS
NOTE: STEEL DEPTH DETERMINED BY SYSTEM. 2-1/4"	

ENGINEER

SCOTT WOLTERS

FL PE #62354

Wolters Engineering, Inc.

(COA #27198)

15211 97th Road N.

West Palm Beach, FL 33412

JUL 03 2024

REVISION

DESCRIPTION	REV. #	DATE
FOR APPROVAL	00	06/07/24
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	-	-
	-	-

2705 N. 35TH STREET

TAMPA, FLORIDA 33605

PH. 813-247-5528

FAX. 813-247-6468

WEST TAMPA GLASS CO.

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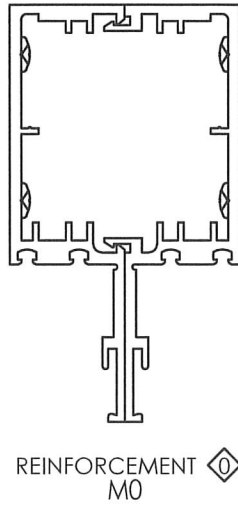
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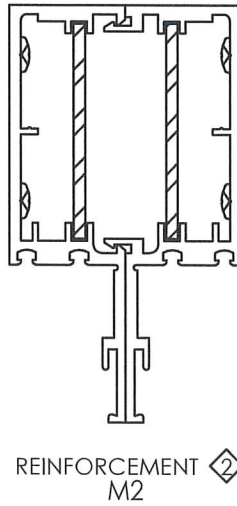
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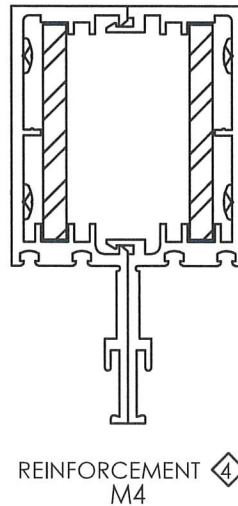
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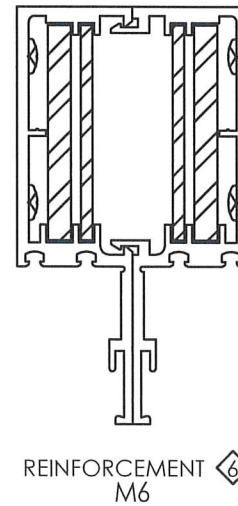
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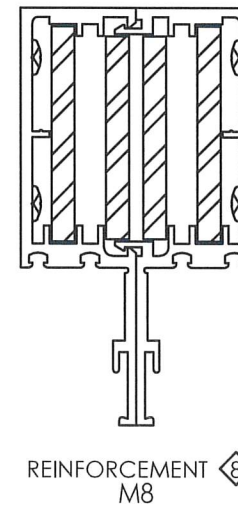
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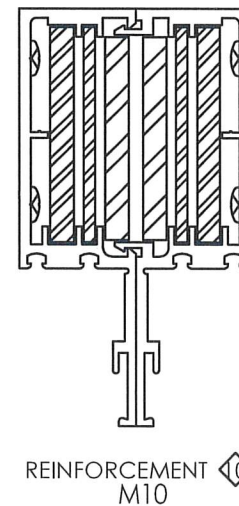
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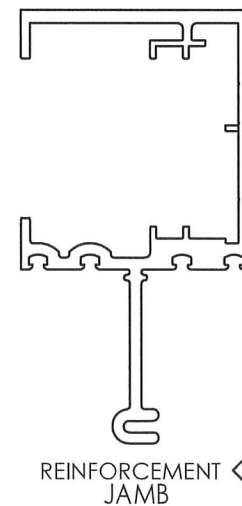
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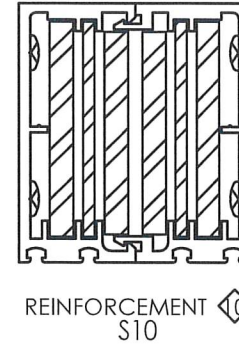
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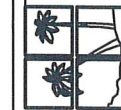
REINFORCEMENT M10



REINFORCEMENT JAMB



REINFORCEMENT S10



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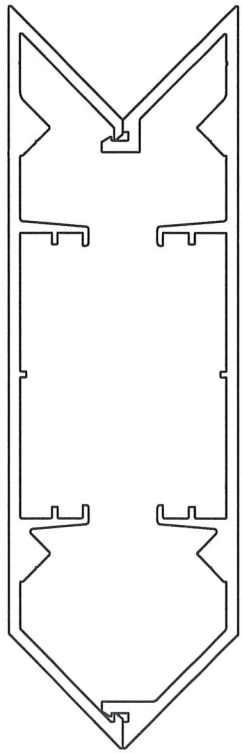
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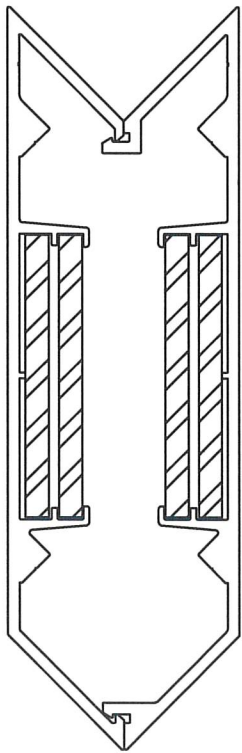
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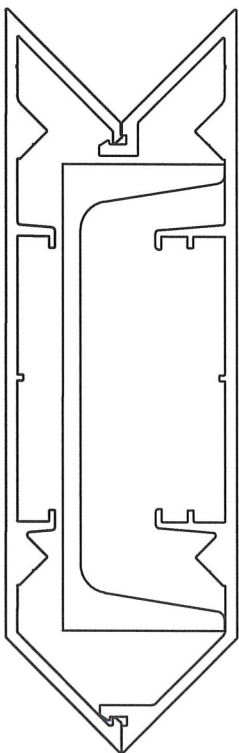
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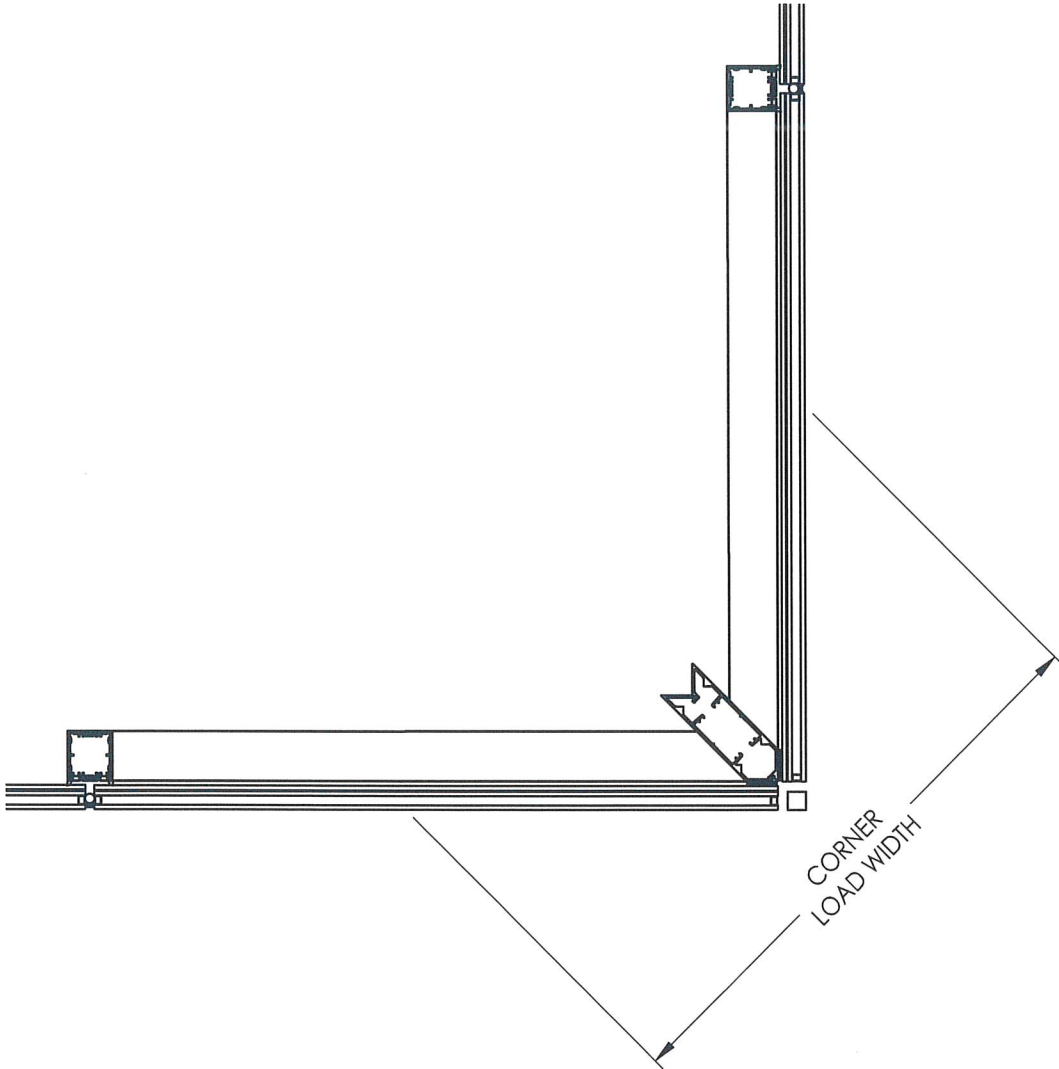
REINFORCEMENT 8



REINFORCEMENT C

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

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



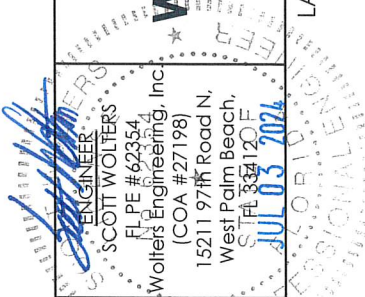
CORNER MULLION
REINFORCEMENT STEEL
3" x 1/4" STEEL BARS



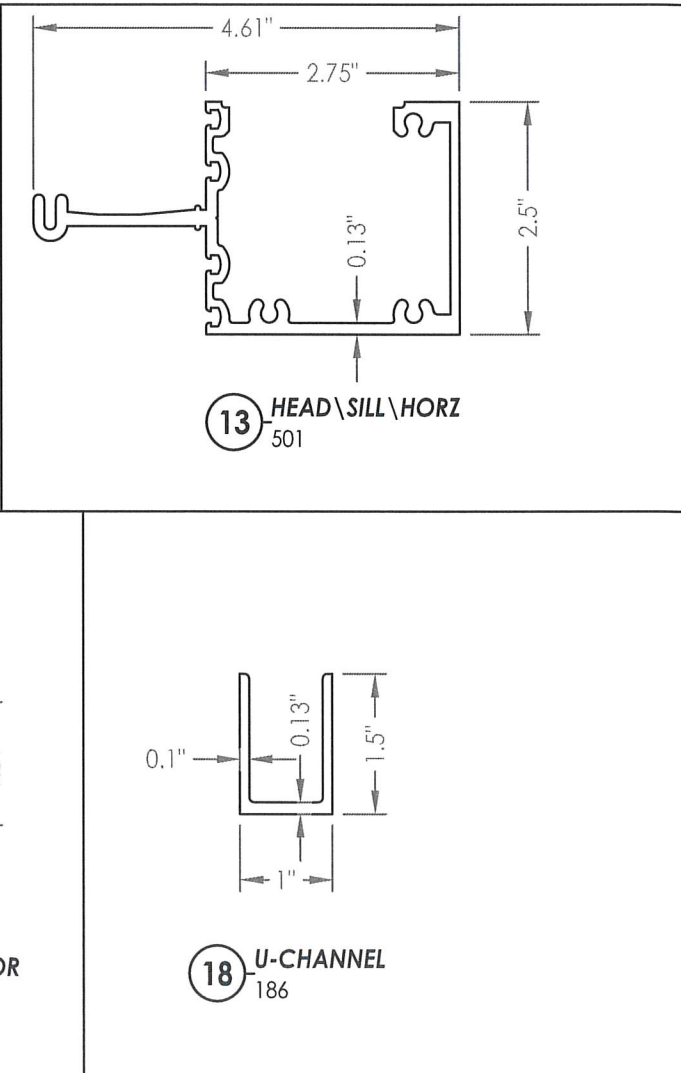
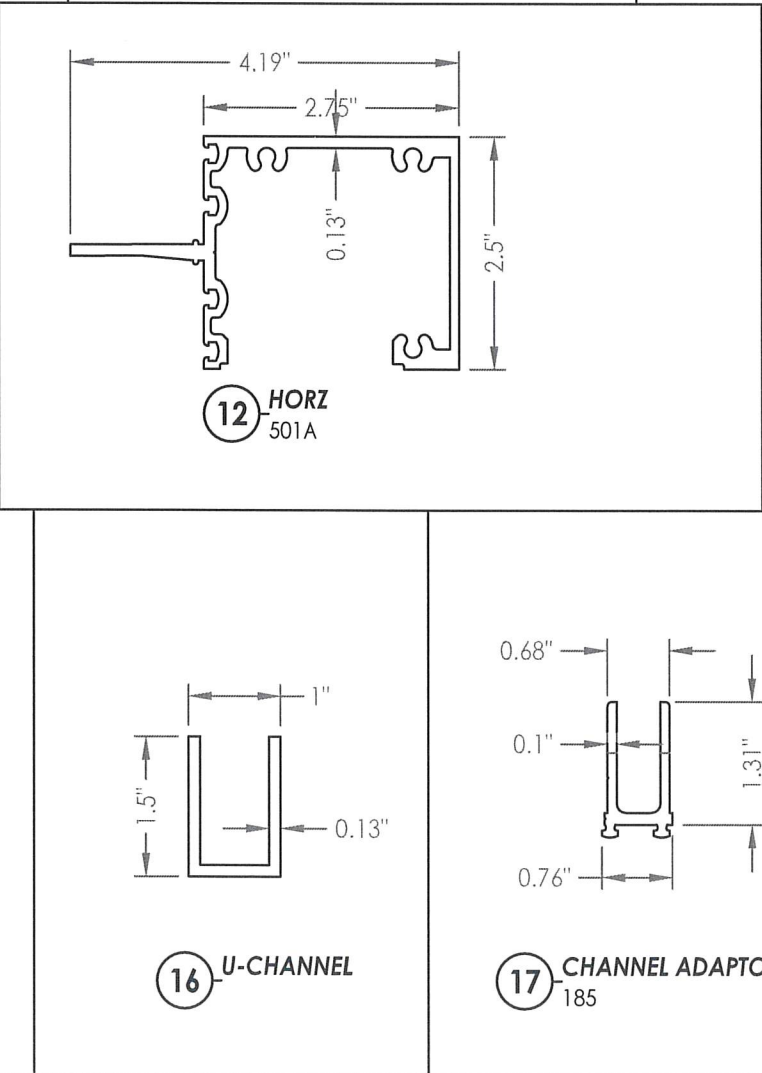
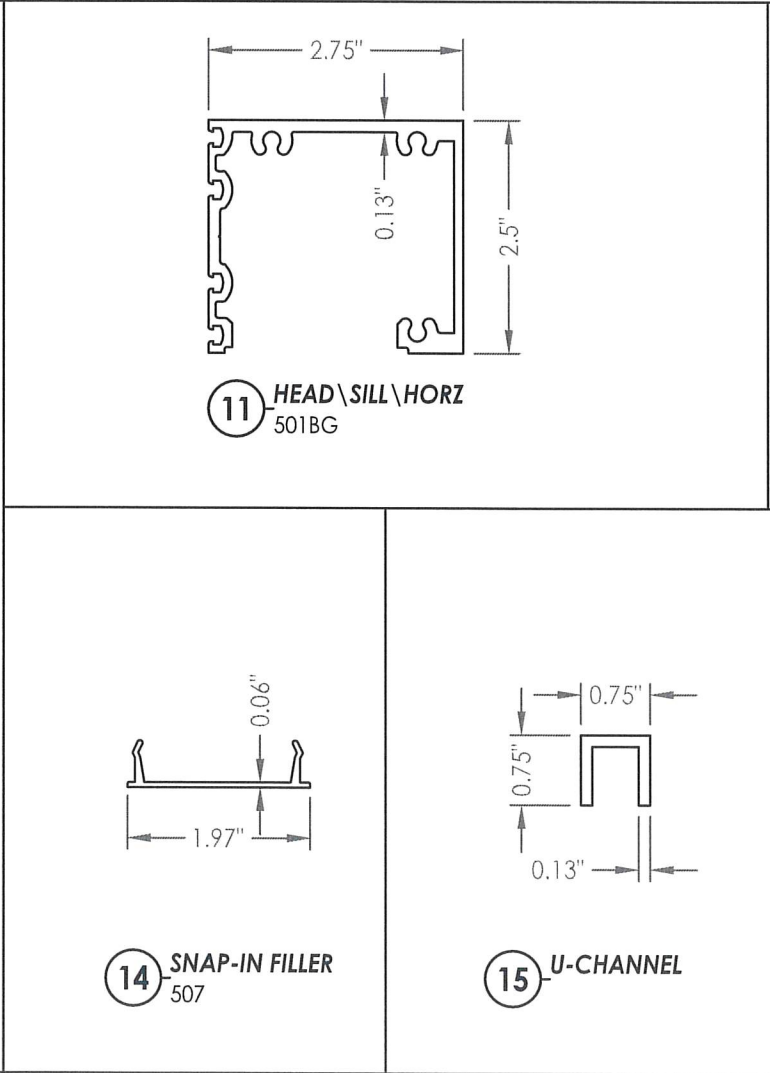
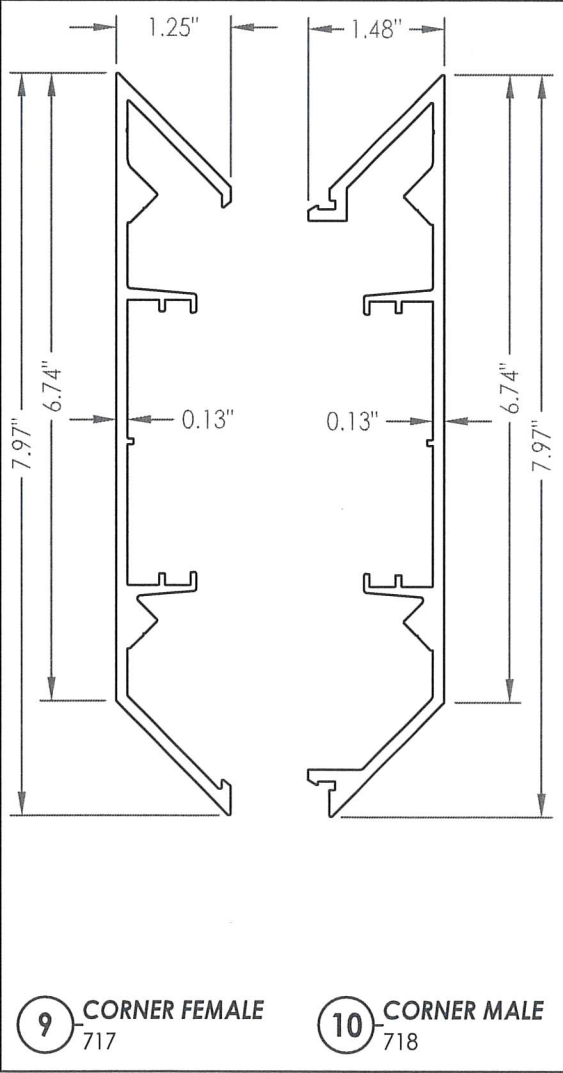
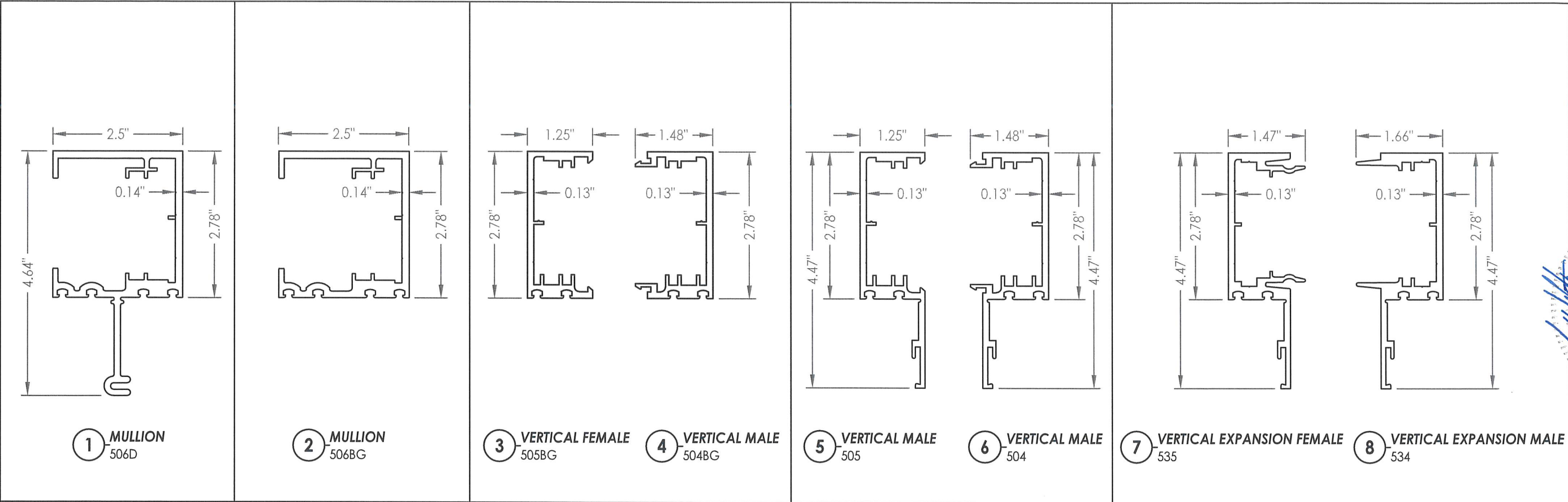
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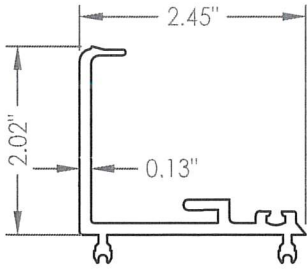
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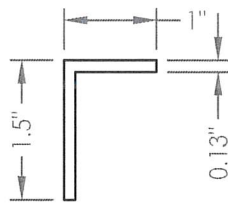
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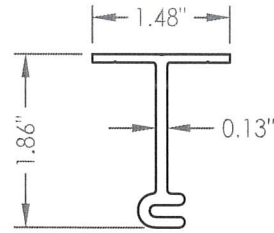
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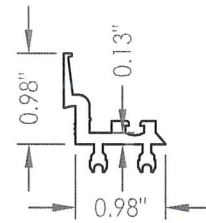
19 PRESSURE BAR
709D



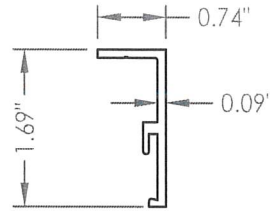
20 ALUMINUM ANGLE
702A



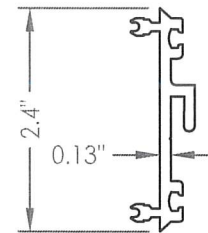
21 TONGUE ADAPTOR
165



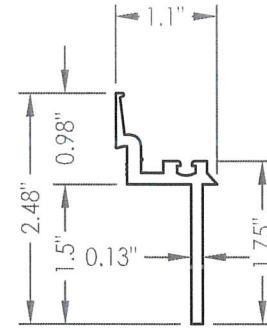
22 GLASS RETAINER
703A



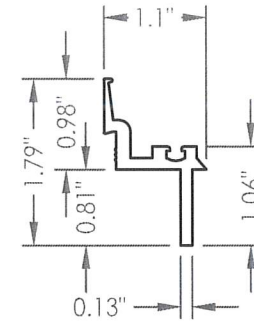
23 TONGUE ADAPTER
163



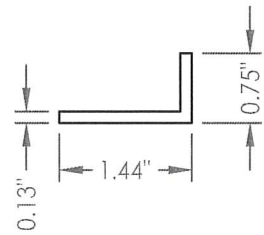
24 PRESSURE BAR
709A



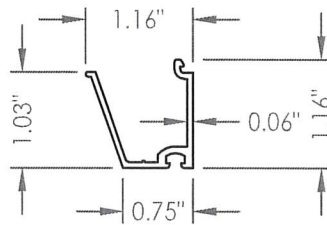
25 PRESSURE BAR
W/ SINGLE WING
703B



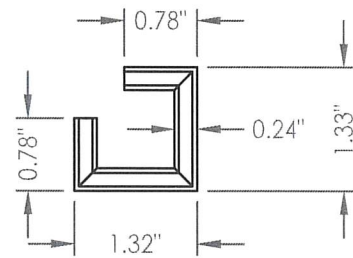
26 PRESSURE BAR
W/ SINGLE WING
703F



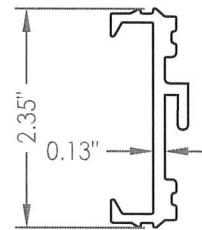
27 ALUMINUM L-ANGLE
702A



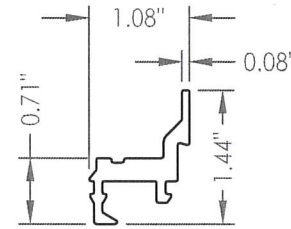
28 GLAZING ADAPTOR
702A



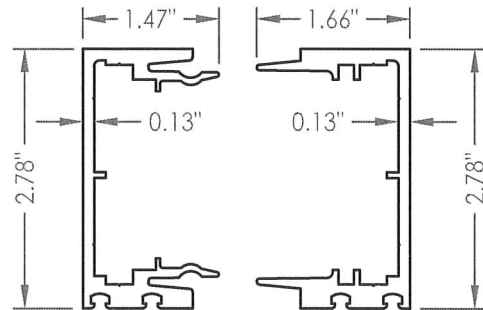
29 CORNER CLOSURE
MATERIAL VARIES
709P



30 THERMOPLASTIC PRESSURE BAR
709P



67 PRESSURE BAR
W/ WINGS
703P



65 VERTICAL EXPANSION FEMALE
535BG

66 VERTICAL EXPANSION MALE
534BG



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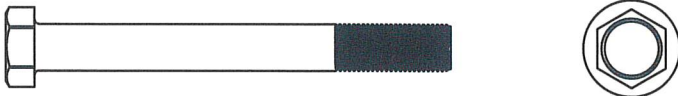
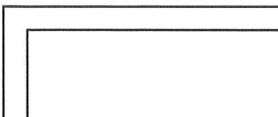
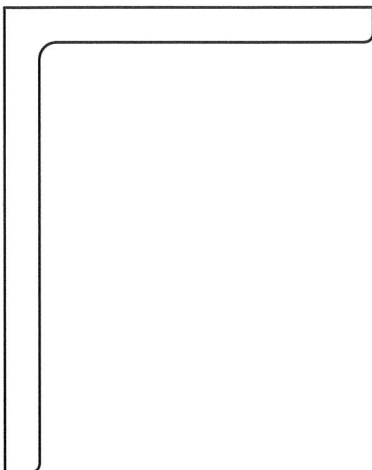
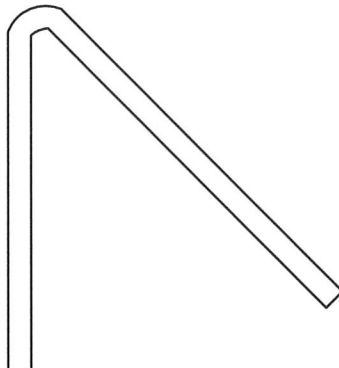
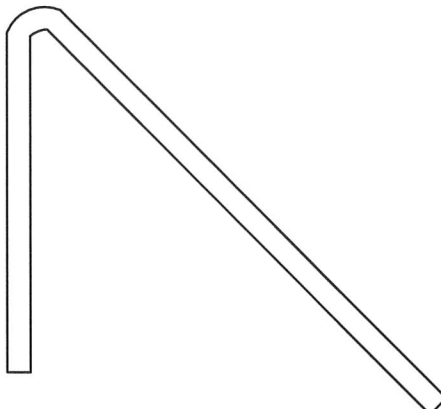
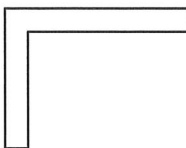
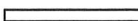


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PLOT DATE: 2024-7-3

LAST SAVE: 2024-7-3 KKHYKHAM

 31 #8-18 PL-PH-SMS ZC TEK/2	 32 #12-14 PH ZINC OR SS SMS	 33 SDR2 #12-14 PL-FH-SMS SG DRIL-FLEX	 34 3/8"-16 X 1 1/2" GR 5 BOLT OR TAP-FLEX	 35 5/16-18 HWH S.S. TEK SCREW STEEL ANCHOR	 36 5/16 HWH CONCRETE ANCHOR	 37 STK5 #10-16 PL-PH OR HWH-SMS 410 TEK/3			
 38 3/8"X16 OR 1/2"X13 OR 5/8"X11 GR 5 BOLT - 1" LENGTH SIZE AS NEEDED	 39 3/8"X16 OR 1/2"X13 OR 5/8"X11 GR 5 BOLT - 2" LENGTH SIZE AS NEEDED	 40 3/8"X16 OR 1/2"X13 OR 5/8"X11 GR 5 BOLT - 5" LENGTH SIZE AS NEEDED		 41 1 1/4" X 3" X 1/4" ALUMINUM ANGLE - 4" LENGTH	 42 3/8"X16 OR 1/2"X13 OR 5/8"X11 ZINC OR SS NUT SIZE AS NEEDED				
 43 1/4" X 4" FORMED STEEL ANGLE		 44 1/4" X 4" FORMED STEEL ANGLE		 45 1/4" X 4" FORMED STEEL ANGLE		 46 1/8" X 4" STEEL FLAT BAR (ASTM A588/ASTM 36) LENGTH AS NEEDED	 47 1 1/2" X 2" X 1/4" ALUMINUM ANGLE - 3 1/2" LENGTH		
				 48 1/4" X 4" STEEL FLAT BAR (ASTM A588/ASTM 36) LENGTH AS NEEDED	 49 1/4" X 4" ALUMINUM FLAT BAR (6063 ALLOY) 9" LENGTH FOR TWIN-SPAN SPLICE				
 50 SPACER GASKET GK004	 51 WEDGE GASKET GK005	 52 SPACER GASKET GK003	 53 BACKER ROD	 54 SPACER TAPE	 55 SPACER GASKET GK006	 56 SPACER GASKET GK007	 64 BREAK METAL LENGTH AS NEEDED		
 57 HALFEN WASHER ALUMINUM (6063)		 58 DOWSIL SILCONE 983 OR 795 OR 995 OR GE SSG4600	 59 26 GA GALVALUME WIDTH & LENGTH AS NEEDED		 60 4 MM ACM PANEL WIDTH & LENGTH AS NEEDED		 61 1/8" X 1 1/2" ALUMINUM FLAT BAR (6063 ALLOY) LENGTH AS NEEDED	 62 SILICONE SEALANT	 63 SETTING BLOCK



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BILL OF MATERIALS			BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL	ITEM	DESCRIPTION	MATERIAL
1	MULLION (#506D)	6005A-T61 OR 6005-T5 ALUM.	41	1-1/4" x 3" x 1/4" ALUMINUM ANGLE 4" LENGTH	6063 ALUM.
2	MULLION (#506BG)	6005A-T61 OR 6005-T5 ALUM.	42	ZINC OR SS NUT OR LOCK NUT	STEEL
3	VERTICAL FEMALE - (#505BG)	6005A-T61 OR 6005-T5 ALUM.	43	1/4 x 4 x 5" FORMED STEEL ANGLE - 4" LONG	STEEL
4	VERTICAL MALE - (#504BG)	6005A-T61 OR 6005-T5 ALUM.	44	1/4 x 4 x 4-1/2" STEEL ANGLE - 8" LONG - 45° CLIP AT CORNER	STEEL
5	VERTICAL FEMALE - (#505)	6005A-T61 OR 6005-T5 ALUM.	45	1/4" x 4" x 6" FORMED STEEL ANGLE 4" LONG	STEEL
6	VERTICAL MALE - (#504)	6005A-T61 OR 6005-T5 ALUM.	46	1/8" X 4" STEEL HOT ROLLED FLAT BAR PRIMER FINISH (ASTM A588) /ASTM 36	STEEL
7	VERTICAL EXPANSION - FEMALE (#535)	6005A-T61 OR 6005-T5 ALUM.	47	ANGLE - 2 x 1 1/2 x 1/4" x 3 1/2" LONG - ALUM.	6063 ALUM.
8	VERTICAL EXPANSION - MALE (#534)	6005A-T61 OR 6005-T5 ALUM.	48	1/4" x 4" STEEL HOT ROLLED FLAT BAR PRIMER FINISH (ASTM A588) /ASTM 36	STEEL
9	CORNER FEMALE (#717)	6005A-T61 OR 6005-T5 ALUM.	49	SPLICE PLATES (QTY. 2) 1/4" x 4" FLAT BAR 9" LONG	6063 ALUM.
10	CORNER MALE (#718)	6005A-T61 OR 6005-T5 ALUM.	50	GK004 - EPDM OR SILICONE	SILICONE
11	HORZ (#50BG)	6063 ALUM.	51	GK005 - SCR OR SILICONE	SILICONE
12	HORZ (#501A)	6063 ALUM.	52	GK003 - SPACER GASKET INTERIOR SCR OR SILICONE	SILICONE
13	HEAD\SILL\HORZ (#501)	6063 ALUM.	53	BACKER ROD CLOSED CELL EXTRUDED FOAM/TUNDRA FOAM OPEN CELL	FOAM
14	SNAP-IN FILLER (#507)	6063 ALUM.	54	SPACER TAPE - 1/4" x 3/8" THERMALBOND	EPDM
15	3/4 x 3/4 1/16 ALUM. U-CHANNEL	6063 ALUM.	55	GK006 - EPDM OR SILICONE	SILICONE
16	1 x 1 1/2 1/8 ALUM. U-CHANNEL	6063 ALUM.	56	GK007 - SCR OR SILICONE	SILICONE
17	CHANNEL ADAPTOR (#185)	6063 ALUM.	57	HALFEN WASHER	6063 ALUM.
18	1 x 1 1/2 1/8 ALUM. U-CHANNEL (#186)	6063 ALUM.	58	SEALANT DOW 983 OR DOW 795 OR GE SSG 4600	SILICONE
19	PRESSURE BAR (#709D)	6063 ALUM.	59	GALVALUME	METAL
20	1" x 1 1/2" 1/8 ALUM. ANGLE (QTY. 2) EA LITE @ QTR POINTS OF GLASS WIDTH	6063 ALUM.	60	ACM - 4mm PE COR / FR CORE	MCM
21	TONGUE ADAPTOR (#165)	6063 ALUM.	61	1/8" x 1-1/2" ALUMINUM FLAT BAR (AT INSIDE CORNER)	SILICONE
22	GLASS RETAINER (#703A)	6063 ALUM.	62	SILICONE SEALANT	SILICONE
23	TONGUE ADAPTOR (#163)	6063 ALUM.	63	SETTING BLOCK	SILICONE
24	PRESSURE BAR (#709A)	6063 ALUM.	64	BREAK METAL	ALUM.
25	PRESSURE BAR W/ SINGLE WING (#703B)	6063 ALUM.	65	VERTICAL EXPANSION - FEMALE (#535BG)	6063 ALUM.
26	PRESSURE BAR W/ SINGLE WING (#703F)	6063 ALUM.	66	VERTICAL EXPANSION - MALE (#534BG)	6063 ALUM.
27	3/4" x 1 1/2" 1/8 ALUM. ANGLE (QTY. 2) EA LITE @ QTR POINTS OF GLASS WIDTH	6063 ALUM.	67	WTG-703P THERMOPLASTIC BAR	PLASTIC
28	GLAZING ADAPTOR (#702A)	6063 ALUM.	68		
29	CORNER CLOSURE	VARIES	69		
30	WTG-709P HORZ THERMOPLASTIC BAR	PLASTIC	70		
31	#8-18 FH TEK SCREW	STEEL	71		
32	#12 PH ZINC OR SS SCREW	STEEL	72		
33	# 1/4" x 20 FH TEK SCREW	STEEL	73		
34	3/8" X 16 X 1 1/2" GR 5 BOLT OR TAP-FLEX BOLT	STEEL	74		
35	5/16" HWH SELF DRILLING SCREW OR ELCO DRILL-FLEX SCREW	STEEL	75		
36	5/16 " HWH CONCRETE ANCHORS	STEEL	76		
37	STK5 #10-16 PL-PH-SMS 410 TEK/3	STEEL	77		
38	GR 5 BOLT - 1" LENGTH - DIAMETER VARIES AS NEEDED	STEEL	78		
39	GR 5 BOLT - 2" LENGTH - DIAMETER VARIES AS NEEDED	STEEL	79		
40	GR 5 BOLT - 5" LENGTH - DIAMETER VARIES AS NEEDED	STEEL	80		

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SCOTT WOLTERS

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(COA # 27198)

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03/03/2024

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