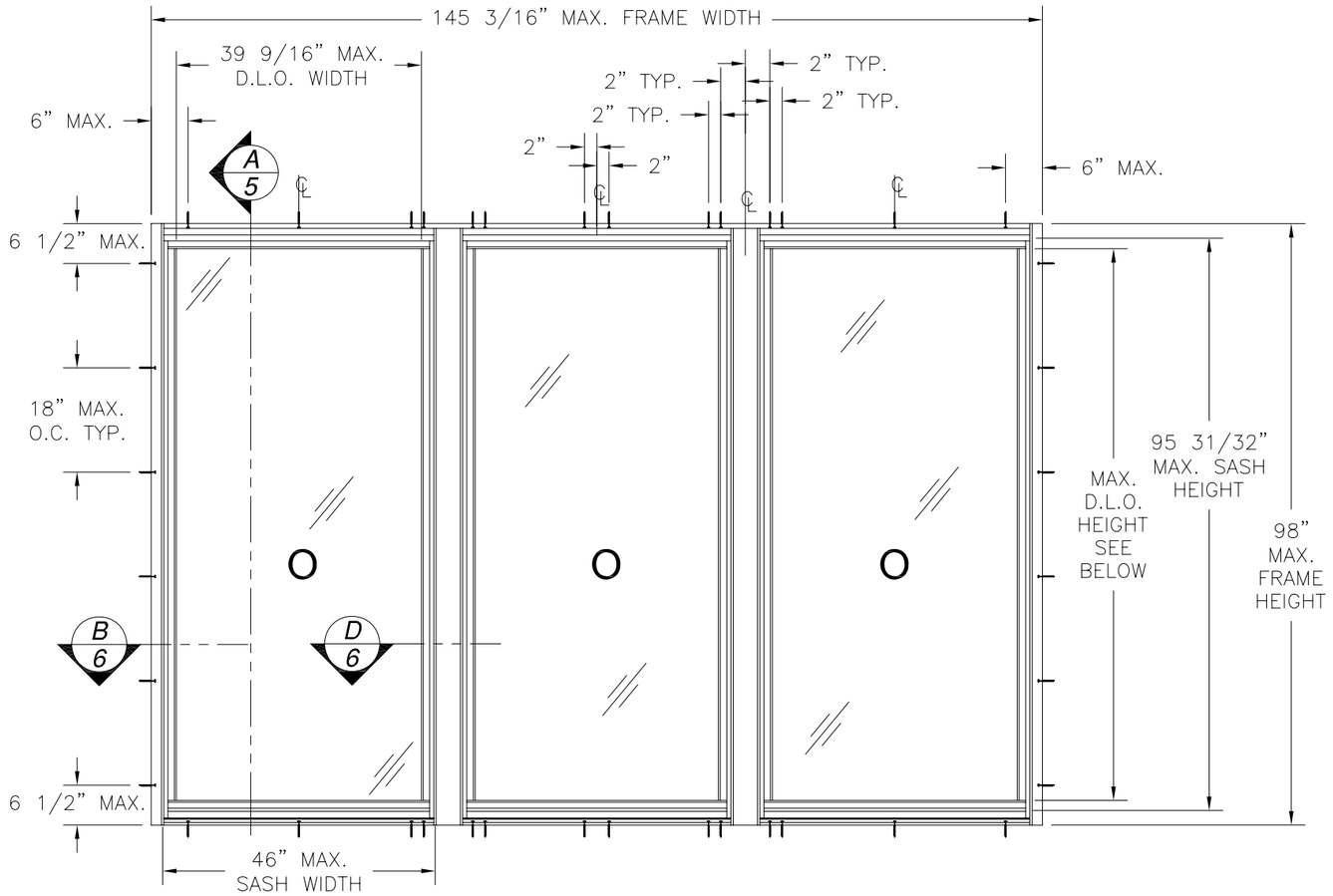

SERIES 9030 MULLED THERMALLY BROKEN REMOVABLE SASH FIXED WINDOW

UNITS MAY BE STACKED VERTICALLY OR HORIZONTALLY
D.L.O. HEIGHT WITH STANDARD BOTTOM RAIL = 89 7/8"
D.L.O. HEIGHT WITH MEDIUM BOTTOM RAIL = 88 1/16"
D.L.O. HEIGHT WITH TALL BOTTOM RAIL = 84 13/16"
EXTERIOR VIEW

DESIGN PRESSURE RATING	*IMPACT RATING*
±90PSF	*LARGE MISSILE IMPACT*

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

NOTES:

1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE 2006 INTERNATIONAL BUILDING CODE AND 2006 INTERNATIONAL RESIDENTIAL CODE WITH TEXAS STATE MODIFICATIONS.
2) WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3) 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4) ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
5) FRAME AND SASH MATERIAL: THERMALLY BROKEN EXTRUDED ALUMINUM 6063–T6.
6) UNITS MUST BE GLAZED PER ASTM E1300. SEE SHEET 4 FOR GLAZING OPTIONS.
7) APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
8) SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
9) FOR ANCHORING INTO MASONRY/CONCRETE USE 1/4" ITW TAPCON WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2'' MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
10) FOR ANCHORING INTO WOOD FRAMING, DOUBLE 2X BUCK OR 2X BACKED 20GA. STEEL FRAMING USE #12 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 5/8" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 3/4" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
11) ALL FASTENERS TO BE CORROSION RESISTANT.
12) INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
    A. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
    B. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
    C. MASONRY – STRENGTH CONFORMANCE TO ASTM C–90, GRADE N, TYPE 1 (OR GREATER).
    D. STEEL FRAMING: 2X BACKED 20GA. (.039" MIN.) STEEL FRAMING.
13) APPROVED MULLED CONFIGURATIONS: UNLIMITED UNITS AS LONG AS SASH SIZE AS SHOWN IS NOT EXCEEDED.

SIGNED: 09/26/2011

TABLE OF CONTENTS

SHEET NO.	DESCRIPTION
1 – 2	MULLED ELEVATION, ANCHORING LAYOUT AND NOTES
3	SINGLE ELEVATIONS AND ANCHORING LAYOUTS
4	BILL OF MATERIALS AND GLAZING DETAILS
5 – 6	CROSS SECTIONS
7 – 9	INSTALLATION DETAILS
10 – 11	COMPONENTS

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MULLED ELEVATION, ANCHORING LAYOUT AND NOTES

DRAWN:	DWG NO.	REV
THJ	08–01090	–
SCALE NTS	DATE 05/10/11	SHEET 1 OF 11

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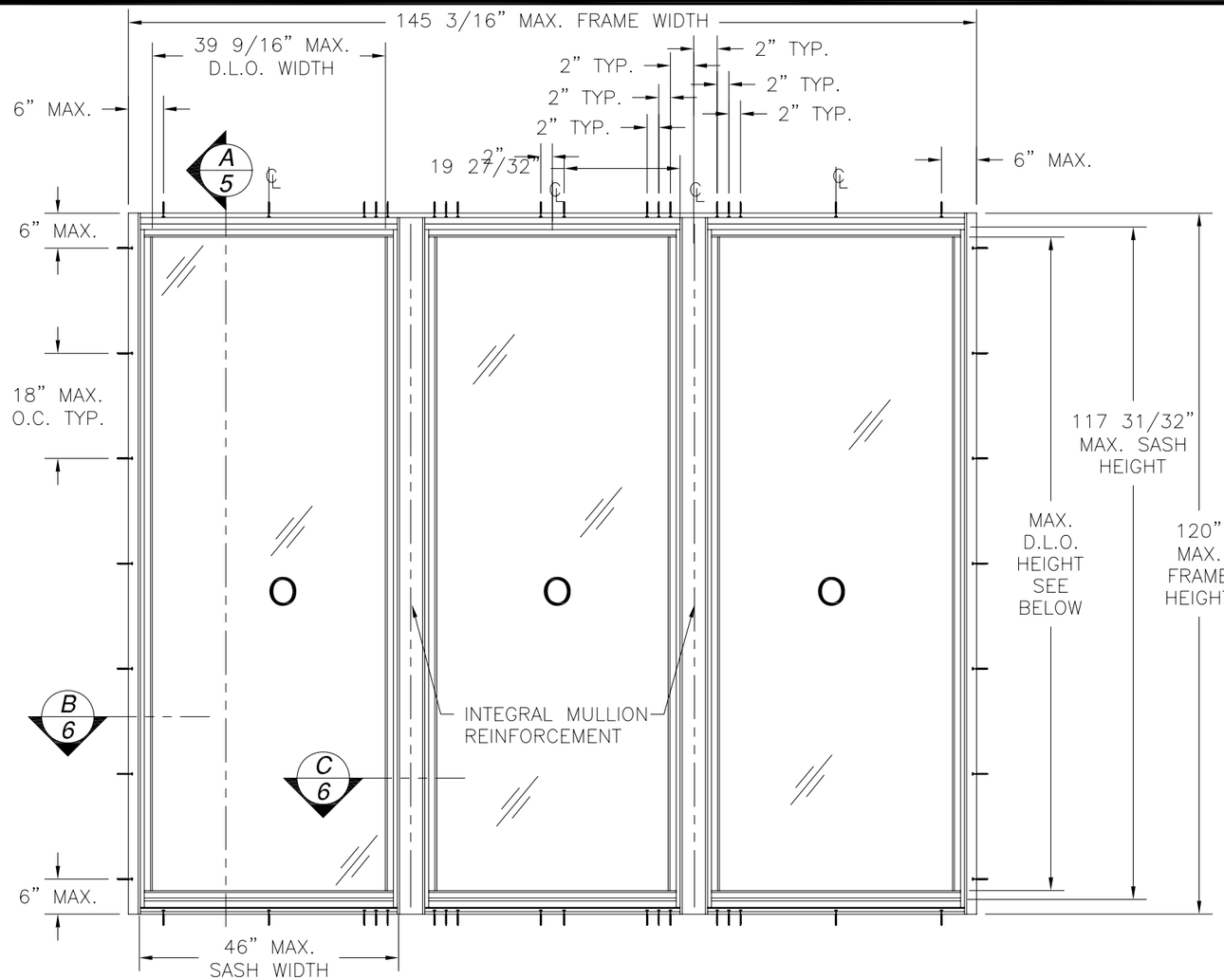

SERIES 9030 MULLED THERMALLY BROKEN REMOVABLE SASH FIXED WINDOW

UNITS MAY BE STACKED VERTICALLY OR HORIZONTALLY
D.L.O. HEIGHT WITH STANDARD BOTTOM RAIL = 111 7/8"
D.L.O. HEIGHT WITH MEDIUM BOTTOM RAIL = 110 1/16"
D.L.O. HEIGHT WITH TALL BOTTOM RAIL = 106 7/16"
EXTERIOR VIEW

DESIGN PRESSURE RATING	*IMPACT RATING*
±90PSF	*LARGE MISSILE IMPACT*

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

FRAME CONSTRUCTION:
FRAME JAMBS ARE COPED AND BUTTED TO HEAD AND SILL AND ATTACHED WITH (4) #8 x 1 1/2" PH SMS AT EACH CORNER. INTEGRAL MULLION IS NOTCHED BUTTED TO HEAD AND SILL AND ATTACHED THROUGH HEAD AND SILL WITH (8) #8 x 1 1/2" PH SMS.

SASH CONSTRUCTION:
SASH STILES ARE COPED AND BUTTED TO TOP AND BOTTOM RAILS. STANDARD BOTTOM RAIL AND TOP RAIL ARE ATTACHED WITH (4) #8 x 1 1/2" PH SMS AT EACH CORNER. STILES ARE ATTACHED TO TALL BOTTOM RAIL WITH (6) #8 x 1 1/2" PH SMS AT EACH CORNER.

SASH TO FIXED FRAME ATTACHMENT:
SASH IS ATTACHED TO FIXED FRAME WITH #10 x 5/8" SELF DRILLING SCREWS. SCREWS ARE LOCATED 5" FROM ALL CORNERS AND 10" O.C. THEREAFTER.

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DRAWN:	DWG NO.	REV
THJ	08–01090	–
SCALE NTS	DATE 05/10/11	SHEET 2 OF 11

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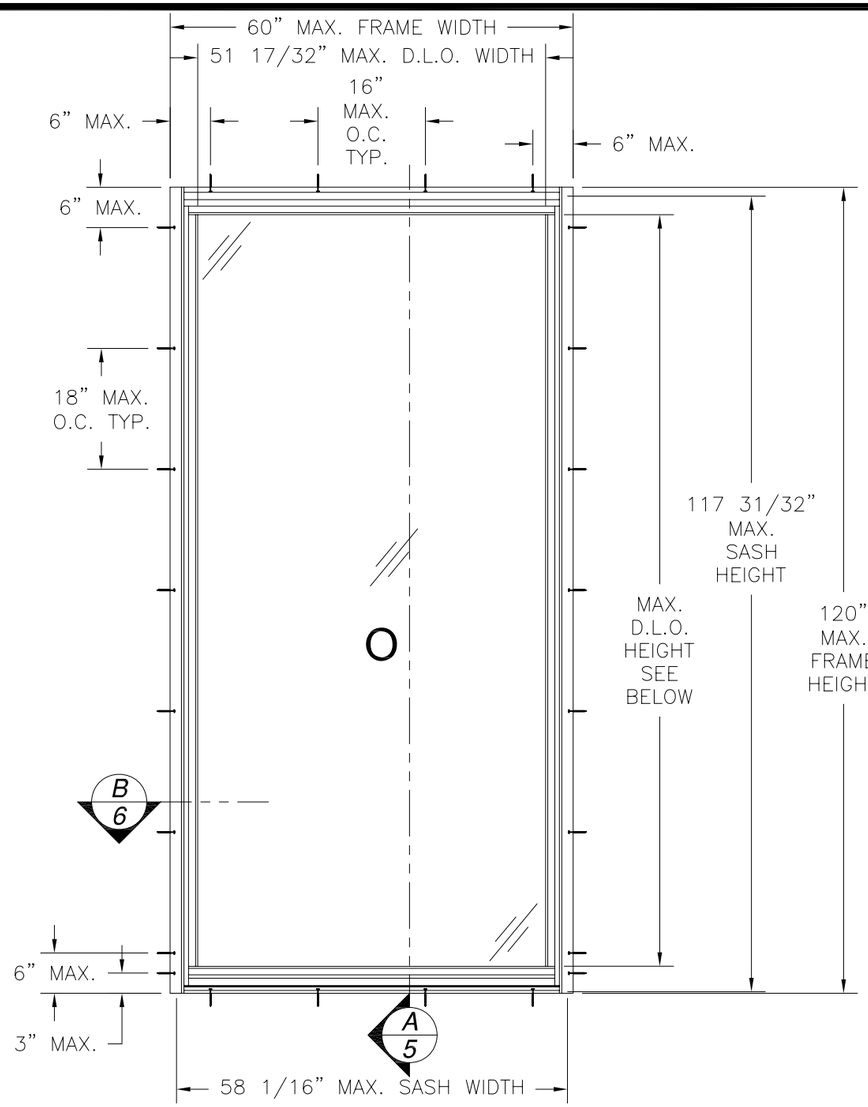
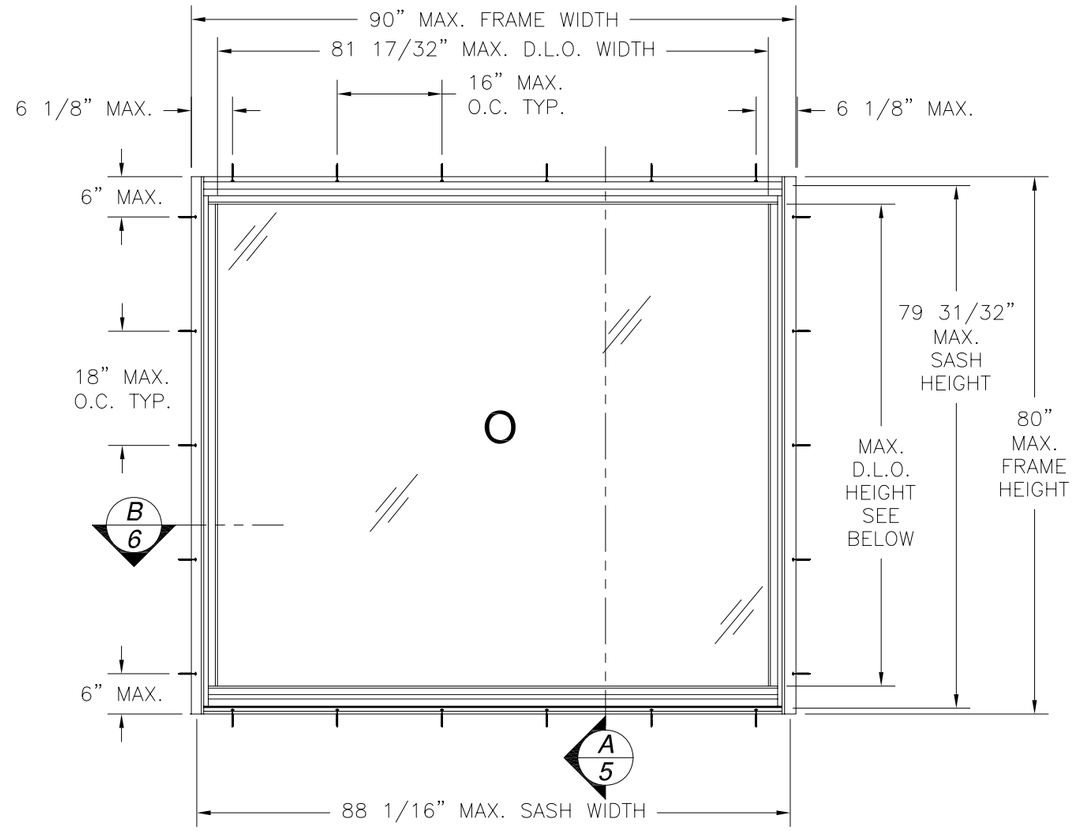


SERIES 9030 THERMALLY BROKEN REMOVABLE SASH FIXED WINDOW

D.L.O. HEIGHT WITH STANDARD BOTTOM RAIL = 111 7/8"
D.L.O. HEIGHT WITH MEDIUM BOTTOM RAIL = 110 1/16"
D.L.O. HEIGHT WITH TALL BOTTOM RAIL = 106 7/16"
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±100PSF	LARGE MISSILE IMPACT



SERIES 9030 THERMALLY BROKEN REMOVABLE SASH FIXED WINDOW

D.L.O. HEIGHT WITH STANDARD BOTTOM RAIL = 71 7/8"
D.L.O. HEIGHT WITH MEDIUM BOTTOM RAIL = 70 1/16"
D.L.O. HEIGHT WITH TALL BOTTOM RAIL = 66 7/16"
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±110PSF	LARGE MISSILE IMPACT

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DRAWN:	DWG NO.	REV
THJ	08–01090	–
SCALE NTS	DATE 05/10/11	SHEET 3 OF 11

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PARTS LIST

NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	903A-FR-1.2	FRAME HEAD ASSEMBLY	BONNELL	ALUMINUM 6063-T6
2	903A-FR-3.4	FRAME SILL ASSEMBLY	BONNELL	ALUMINUM 6063-T6
3	903A-FR-7.8	FRAME JAMB ASSEMBLY	BONNELL	ALUMINUM 6063-T6
4	903A-PN-1.2	PANEL TOP RAIL ASSEMBLY	BONNELL	ALUMINUM 6063-T6
5	903A-PN-3.4	PANEL BOTTOM RAIL ASSEMBLY	BONNELL	ALUMINUM 6063-T6
6	903A-PN-7.8	PANEL MEDIUM BOTTOM RAIL ASS'Y	BONNELL	ALUMINUM 6063-T6
7	903A-PN-9.10	PANEL TALL BOTTOM RAIL ASSEMBLY	BONNELL	ALUMINUM 6063-T6
8	903A-PN-5.6	PANEL SIDE RAIL ASSEMBLY	BONNELL	ALUMINUM 6063-T6
9	903A-FR-12.13	INTEGRAL MULLION ASSEMBLY	BONNELL	ALUMINUM 6063-T6
10	903X-FR-10	FRAME HEAD EXTERIOR COVER	BONNELL	ALUMINUM 6063-T6
11	903X-FR-11	FRAME SILL COVER	BONNELL	ALUMINUM 6063-T6
12	903X-FR-06	FRAME SILL SEAT	BONNELL	ALUMINUM 6063-T6
13	903X-FR-09	FRAME HEAD/JAMB COVER	BONNELL	ALUMINUM 6063-T6
14	903X-FR-05	SILL ANCHOR COVER EXTERIOR	BONNELL	ALUMINUM 6063-T6
15	903X-FR-14	INTEGRAL MULLION COVER	BONNELL	ALUMINUM 6063-T6
16	903X-FR-15	INTEGRAL MULLION INTERIOR REINF.	BONNELL	ALUMINUM 6005-T5
17	903X-FR-16	INTEGRAL MULLION EXTERIOR REINF.	BONNELL	ALUMINUM 6005-T5
18	903X-AC-01	FRAME JAMB BACK PLATE	BONNELL	ALUMINUM 6063-T6
19	903X-AC-17	PANEL ASS'Y SCREW BACK UP PLATE	BONNELL	ALUMINUM 6063-T6
20	905X-AC-8	GLAZING BEAD 7/16" - 9/16"	KEYMARK	ALUMINUM 6063-T6
21	905X-AC-6	GLAZING BEAD 1 5/8"	KEYMARK	ALUMINUM 6063-T6
22	905X-AC-7	GLAZING BEAD 1 1/4"	KEYMARK	ALUMINUM 6063-T6
23		LMI GLASS SEE SHT. 4 FOR OPTIONS		
24	TP-875	1/4" GLAZING VINYL		RUBBER
25	TP-1051	1" GLAZING VINYL		RUBBER
26	E-207	BOTTOM RAIL BULB VINYL SEAL		POLYPROPYLENE
27	1-DEA	SPONGE FRAME & PANEL BULD SEAL		EDPM
28		SPONGE JAMB BULD FLAP SEAL		EDPM
29	13018730	FIN SEAL ULTRA HI DENSITY	ULTRA FAB	
30		#8 x 3/8" PH SMS		STAINLESS STEEL
31		#8 x 1 1/2" PH SMS		STAINLESS STEEL
32		#10 x 5/8" SELF DRILLING SCREW		
33		SETTING BLOCK		RUBBER
34	SIKAFLEX 552	GLAZING COMPOUND	SIKA CORP.	URETHANE
35	279500	20mm STRUT	TECHNOFORM US	POLYMIDE 66
36	279700	24mm STRUT	TECHNOFORM US	POLYMIDE 66
37	948600	14mm STRUT	TECHNOFORM US	POLYMIDE 66
38		#8 x 3/4" PH SELF DRILLING SCREW		STAINLESS STEEL

REVISIONS

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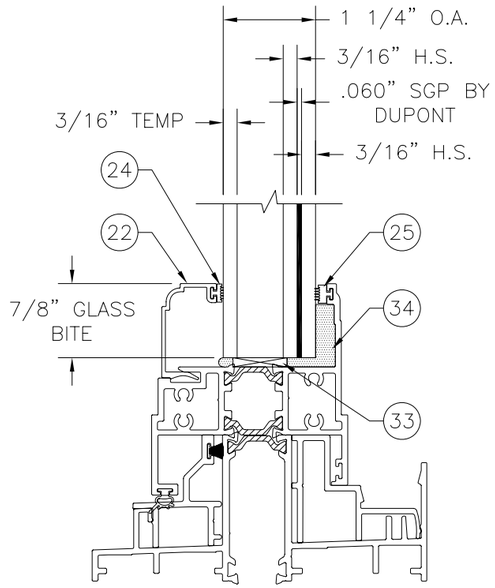
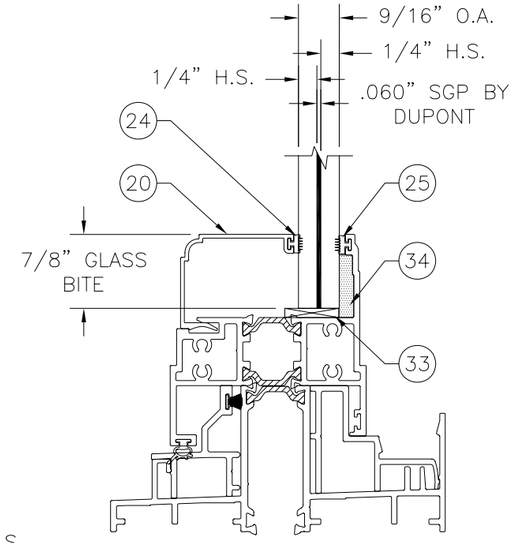
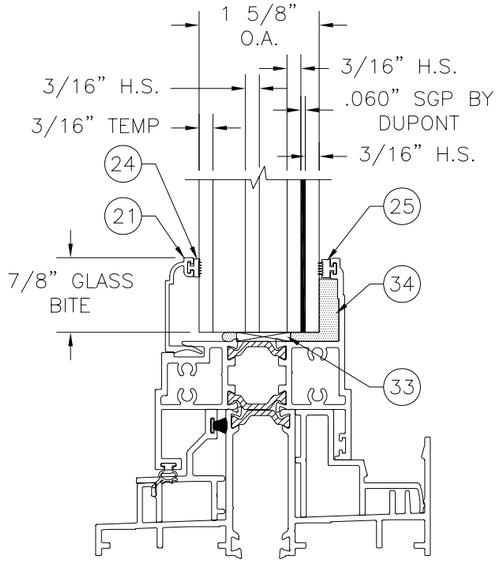


GLAZING OPTION 1



GLAZING OPTION 2



GLAZING OPTION 3

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BILL OF MATERIALS AND GLAZING DETAILS

DRAWN:	DWG NO.	REV
THJ	08-01090	-
SCALE NTS	DATE 05/10/11	SHEET 4 OF 11

STATE OF TEXAS
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REVISIONS			
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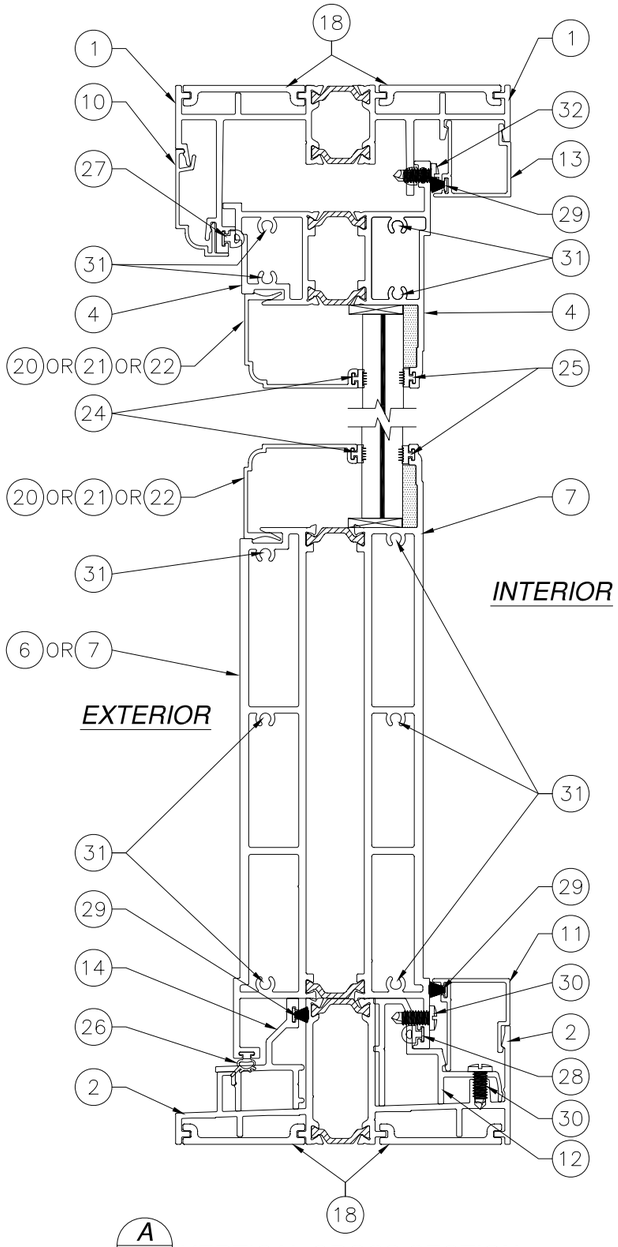
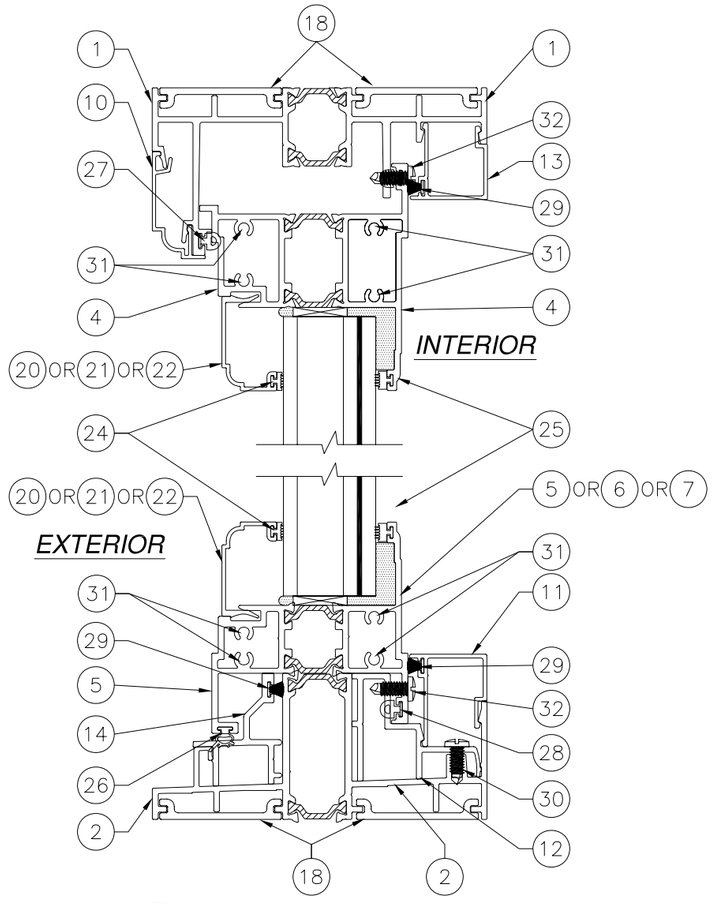


A/5 VERTICAL CROSS SECTION
WITH OPTIONAL TALL BOTTOM RAIL SHOWN,
OPTIONAL MEDIUM BOTTOM RAIL SIMILAR



A/5 VERTICAL CROSS SECTION
WITH STANDARD BOTTOM RAIL

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CROSS SECTIONS

DRAWN:	DWG NO.	REV
THJ	08–01090	–
SCALE NTS	DATE 05/10/11	SHEET 5 OF 11

STATE OF TEXAS
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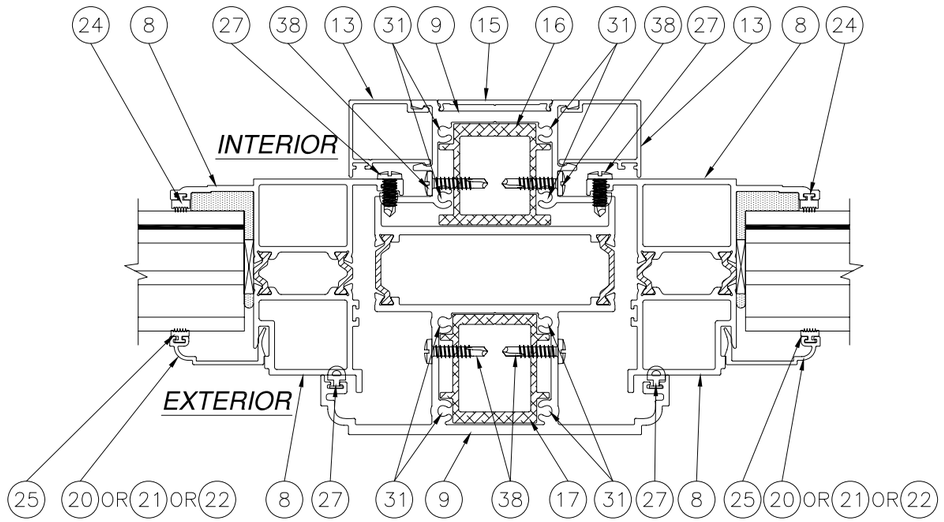
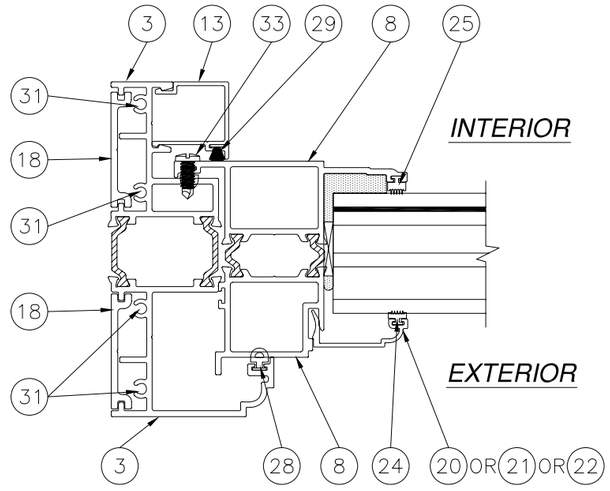
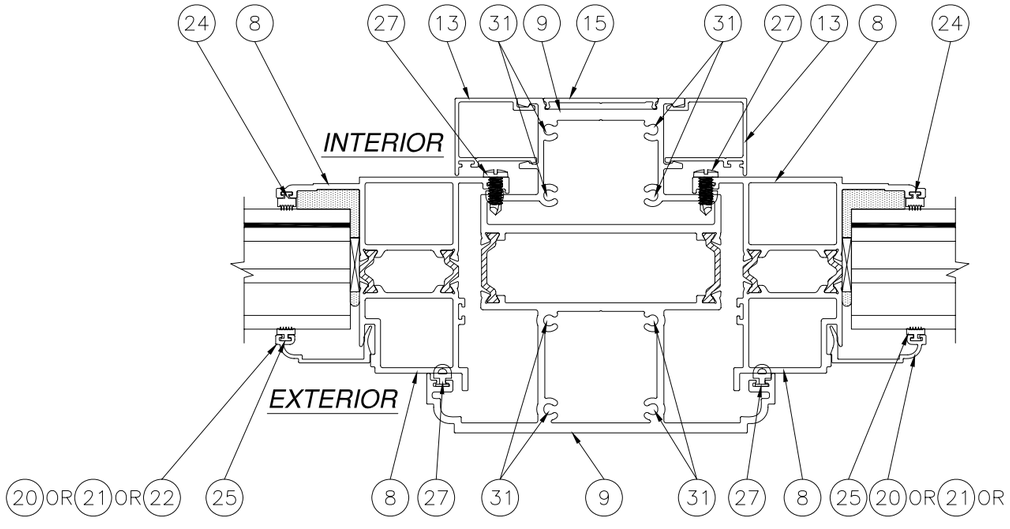


C/6 HORIZONTAL CROSS SECTION



B/6 HORIZONTAL CROSS SECTION



D/6 HORIZONTAL CROSS SECTION

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CROSS SECTIONS

DRAWN:	DWG NO.	REV
THJ	08–01090	–
SCALE NTS	DATE 05/10/11	SHEET 6 OF 11

STATE OF TEXAS
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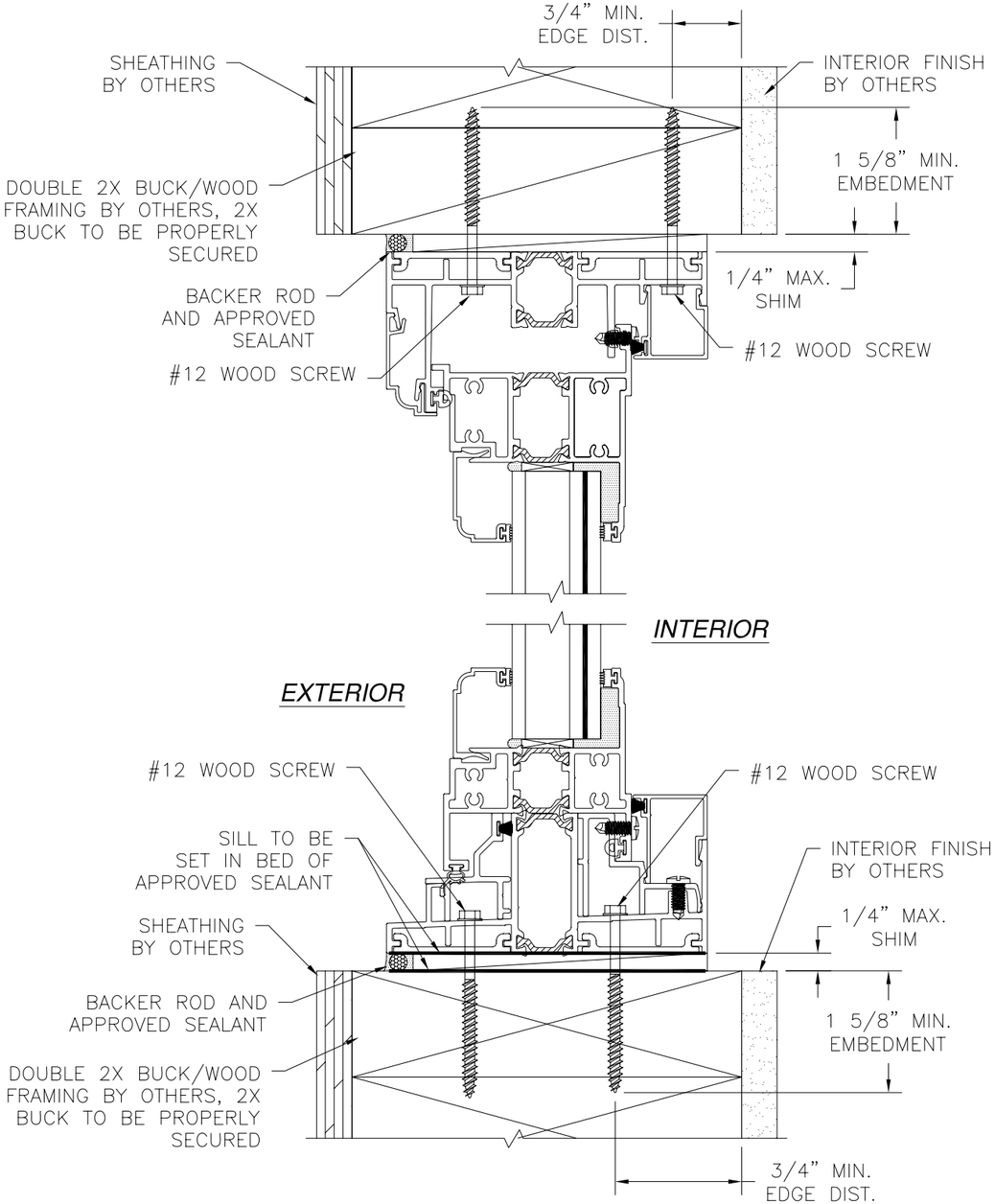
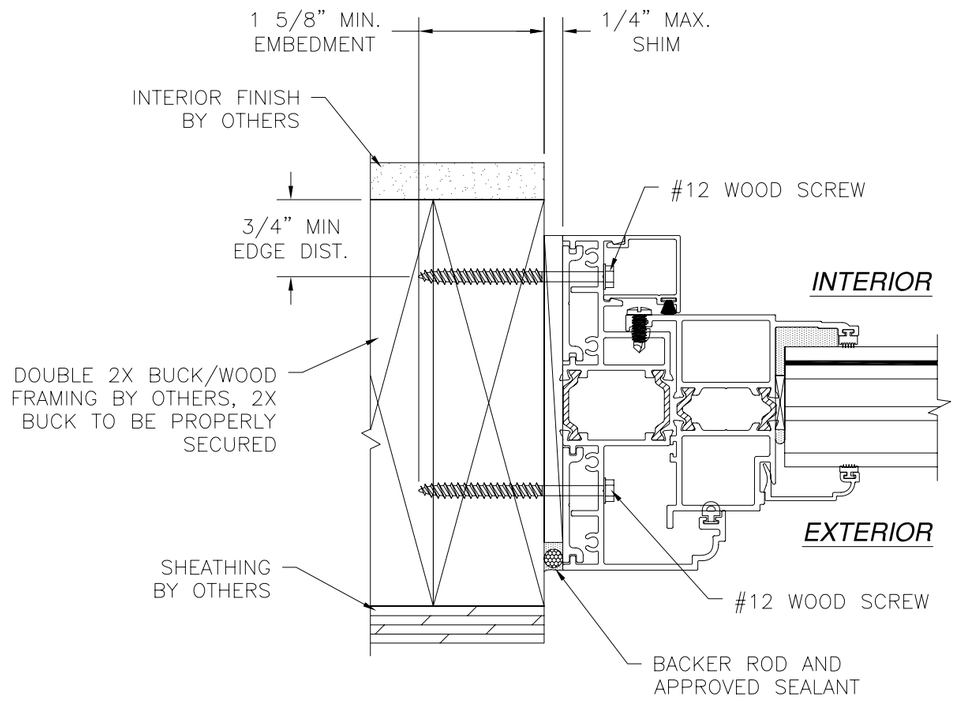


VERTICAL CROSS SECTION

2X BUCK/WOOD FRAMING INSTALLATION
STANDARD BOTTOM RAIL SHOWN, MEDIUM
AND TALL BOTTOM RAIL SIMILAR



HORIZONTAL CROSS SECTION

2X BUCK/WOOD FRAMING INSTALLATION

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DRAWN:	DWG NO.	REV
THJ	08–01090	–
SCALE NTS	DATE 05/10/11	SHEET 7 OF 11

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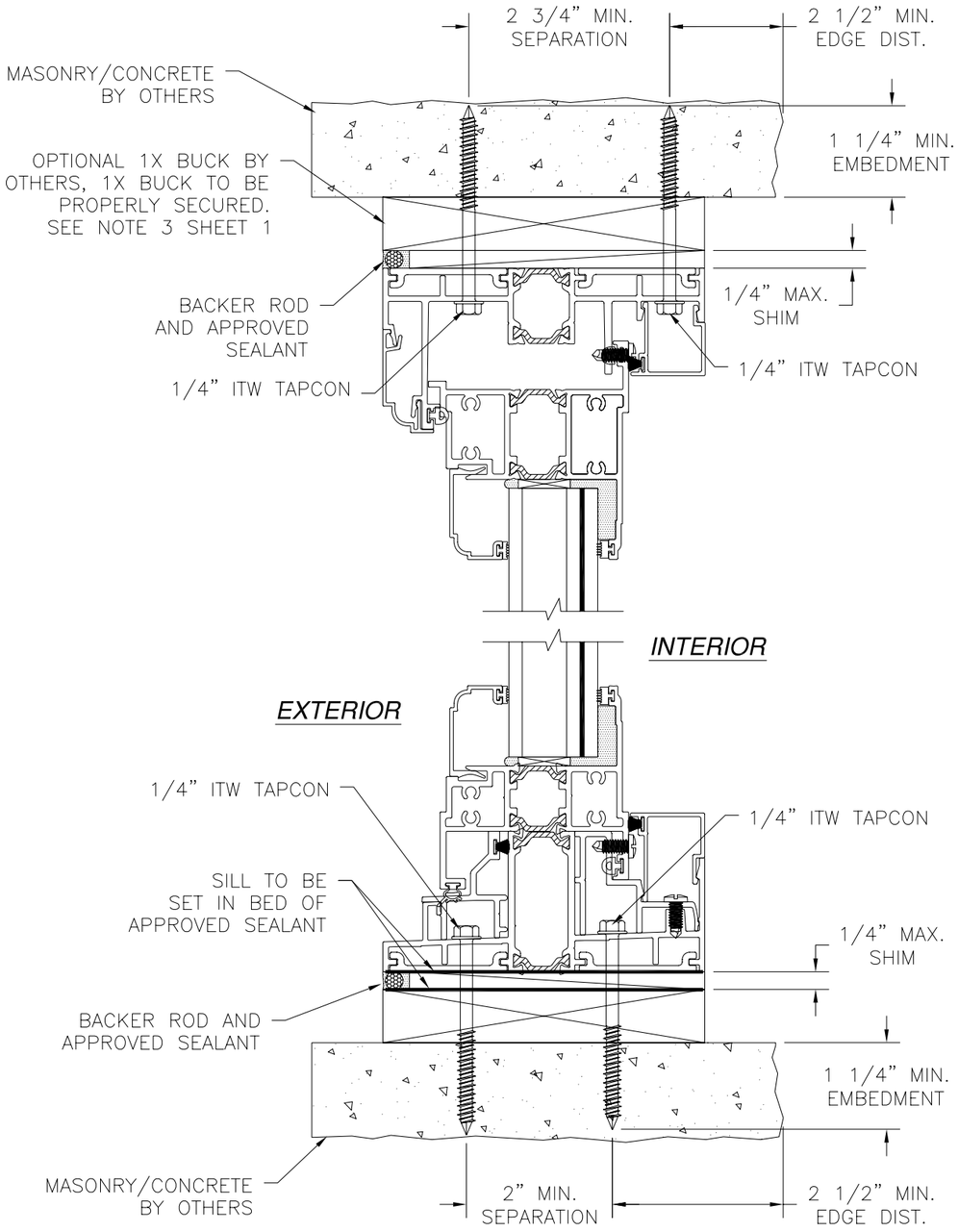
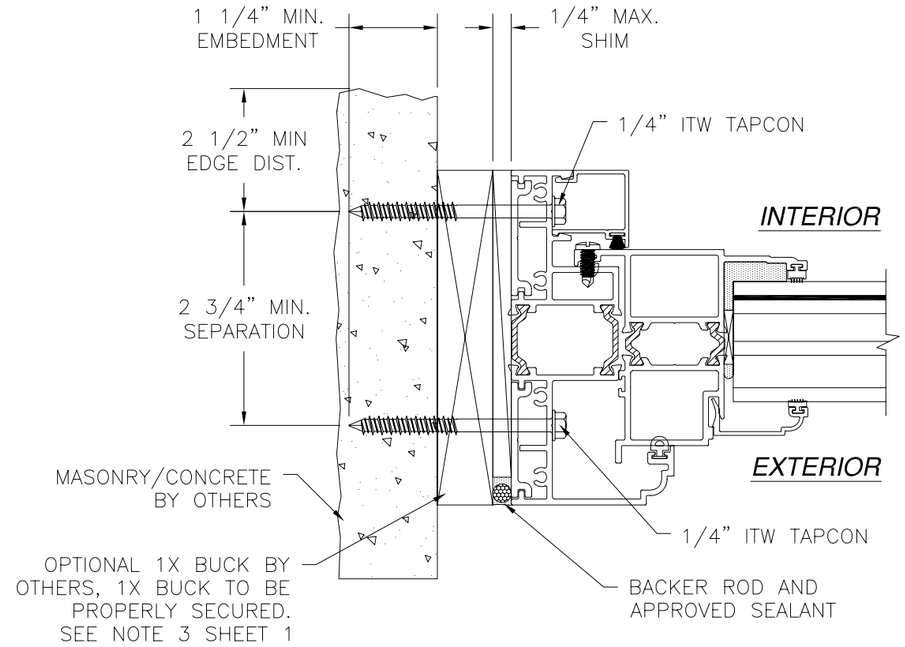


VERTICAL CROSS SECTION

MASONRY/CONCRETE INSTALLATION
STANDARD BOTTOM RAIL SHOWN, MEDIUM AND TALL BOTTOM RAIL SIMILAR



HORIZONTAL CROSS SECTION

MASONRY/CONCRETE INSTALLATION

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THJ	08–01090	–
SCALE NTS	DATE 05/10/11	SHEET 8 OF 11

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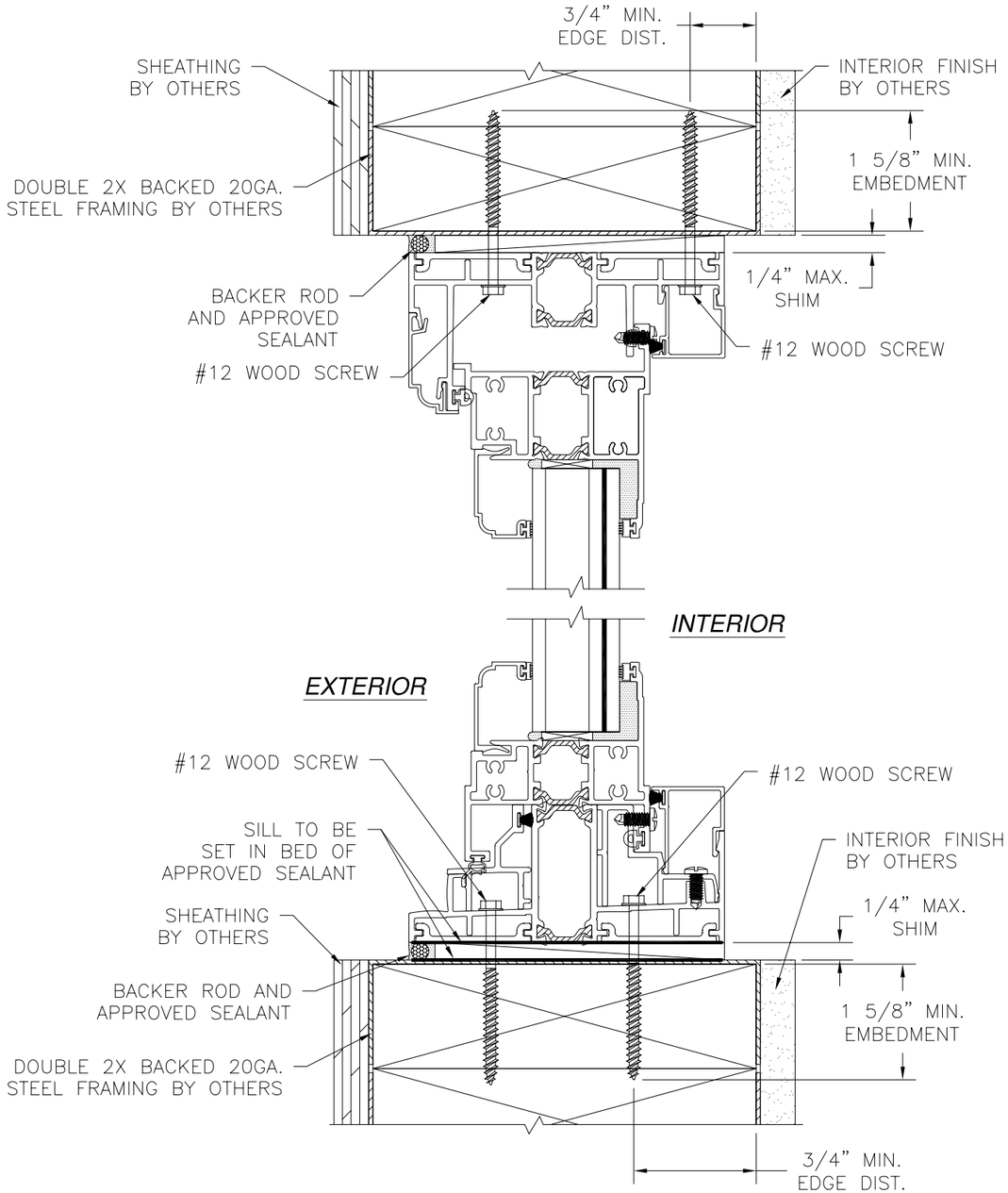
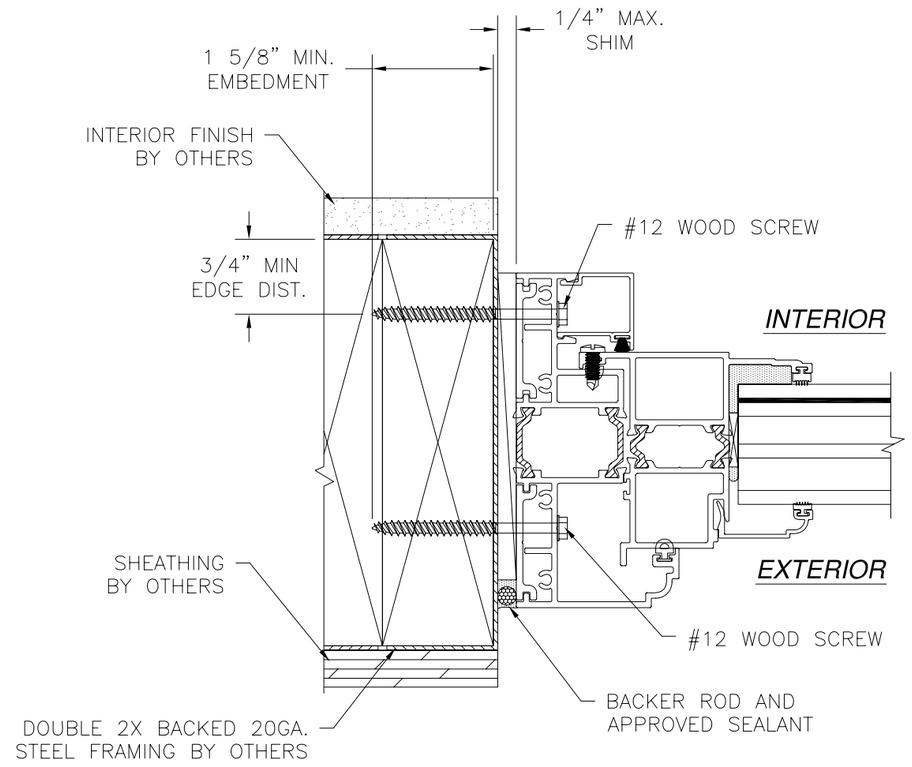


VERTICAL CROSS SECTION

DOUBLE 2X BACKED STEEL FRAMING INSTALLATION
STANDARD BOTTOM RAIL SHOWN, MEDIUM
AND TALL BOTTOM RAIL SIMILAR



HORIZONTAL CROSS SECTION

DOUBLE 2X BACKED STEEL FRAMING INSTALLATION

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INSTALLATION DETAILS

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THJ	08–01090	–
SCALE NTS	DATE 05/10/11	SHEET 9 OF 11

STATE OF TEXAS
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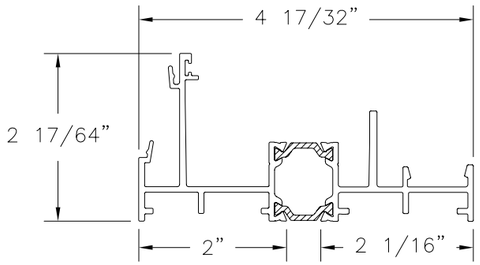
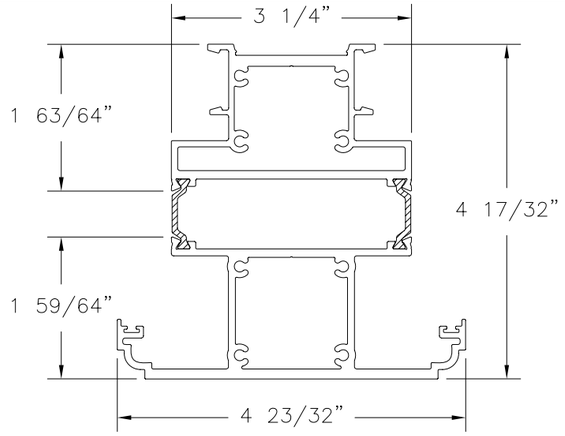
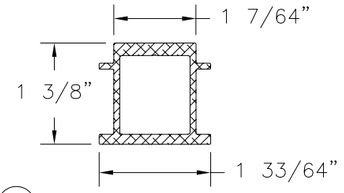


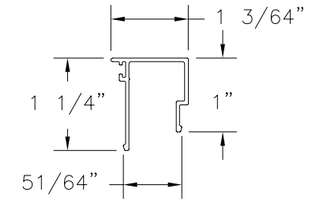
1 FRAME HEAD ASSEMBLY
EXTRUDED ALUMINUM 6063-T6 .075" THICK



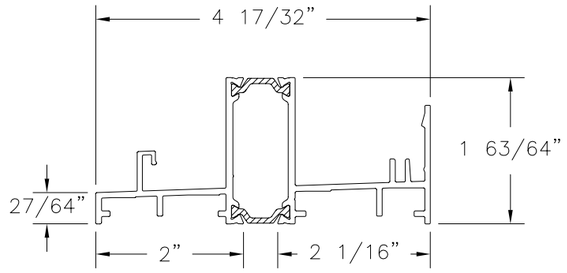
9 INTEGRAL MULLION ASSEMBLY
EXTRUDED ALUMINUM 6063-T6 .085" THICK



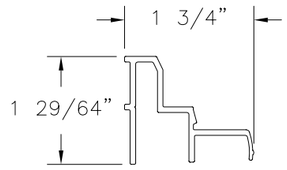
16 INTEGRAL MULLION INTERIOR REINFORCEMENT
EXTRUDED ALUMINUM 6063-T5 .080" THICK



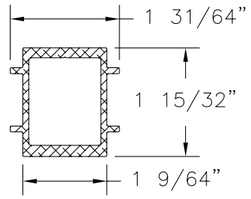
11 FRAME SILL COVER
EXTRUDED ALUMINUM 6063-T6 .050" THICK



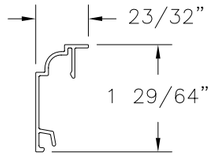
2 FRAME SILL ASSEMBLY
EXTRUDED ALUMINUM 6063-T6 .075" THICK



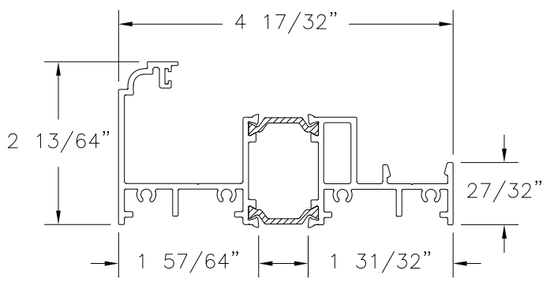
12 FRAME SILL SEAT
EXTRUDED ALUMINUM 6063-T6 .075" THICK



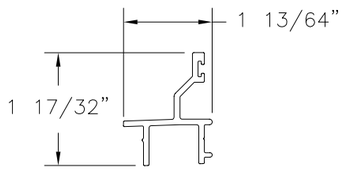
17 INTEGRAL MULLION EXTERIOR REINFORCEMENT
EXTRUDED ALUMINUM 6063-T5 .080" THICK



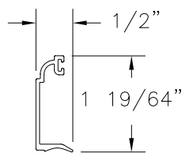
10 FRAME HEAD EXTERIOR COVER
EXTRUDED ALUMINUM 6063-T6 .045" THICK



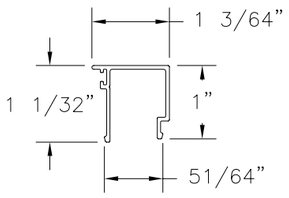
3 FRAME JAMB ASSEMBLY
EXTRUDED ALUMINUM 6063-T6 .075" THICK



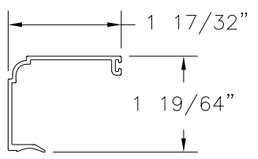
14 SILL ANCHOR COVER EXTERIOR
EXTRUDED ALUMINUM 6063-T6 .080" THICK



21 GLAZING BEAD 1 5/8"
EXTRUDED ALUMINUM 6063-T6 .050" THICK



13 FRAME HEAD/JAMB COVER
EXTRUDED ALUMINUM 6063-T6 .050" THICK



20 GLAZING BEAD 7/16" - 9/16"
EXTRUDED ALUMINUM 6063-T6 .050" THICK

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www.windoorinc.com

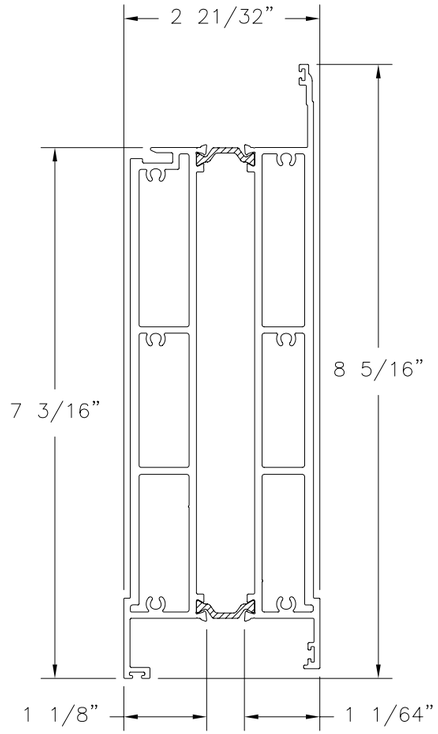
SERIES 9030 THERMALLY BROKEN ALUMINUM REMOVABLE SASH FIXED WINDOW – LMI COMPONENTS

DRAWN:	DWG NO.	REV
THJ	08–01090	–
SCALE NTS	DATE 05/10/11	SHEET 10 OF 11

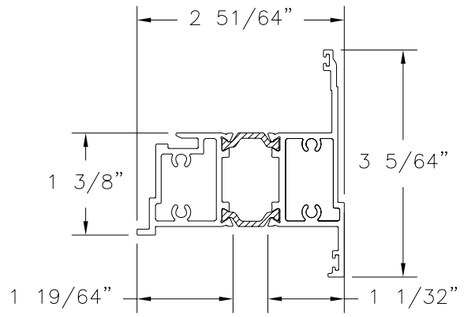
STATE OF TEXAS · LUIS R. LOMAS · 101889 · LICENSED PROFESSIONAL ENGINEER

Luis R. Lomas P.E.
Texas No. 101889

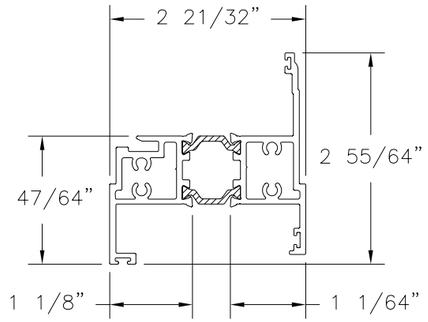
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



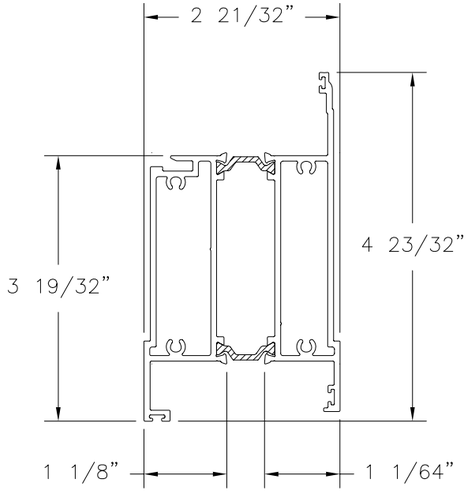
(7) *PANEL TALL BOTTOM ASSEMBLY*
EXTRUDED ALUMINUM 6063-T6 .120" THICK



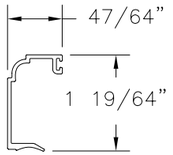
(4) *PANEL TOP RAIL ASSEMBLY*
EXTRUDED ALUMINUM 6063-T6 .075" THICK



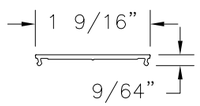
(5) *PANEL BOTTOM RAIL ASSEMBLY*
EXTRUDED ALUMINUM 6063-T6 .078" THICK



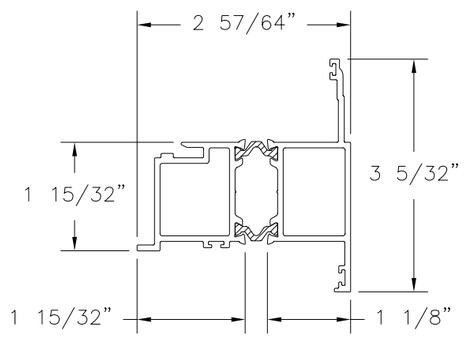
(6) *PANEL MEDIUM BOTTOM ASSEMBLY*



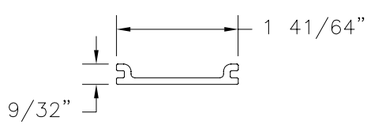
(22) *GLAZING BEAD 1 1/4"*
EXTRUDED ALUMINUM 6063-T6 .050" THICK



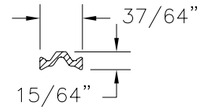
(15) *INTEGRAL MULLION COVER*
EXTRUDED ALUMINUM 6063-T6 .062" THICK



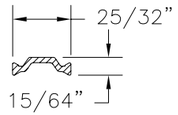
(8) *PANEL SIDE RAIL ASSEMBLY*
EXTRUDED ALUMINUM 6063-T6 .075" THICK



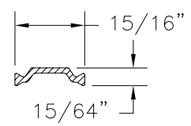
(18) *FRAME JAMB BACK PLATE*
EXTRUDED ALUMINUM 6063-T6 .090" THICK



(37) *14mm STRUT*
POLYMIDE 66 .071" THICK



(35) *20mm STRUT*
POLYMIDE 66 .071" THICK



(36) *24mm STRUT*
POLYMIDE 66 .071" THICK

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