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NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE 2006 IBC & 2006 IRC WITH STATE OF TEXAS 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 MATERIAL: ALUMINUM 6063-T6
6. UNITS MUST BE GLAZED PER ASTM E1300-04, SEE SHEET 7 FOR GLASS DETAILS.
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 WOOD FRAMING OR 2X BUCK USE #14 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

10. FOR ANCHORING INTO MASONRY/CONCRETE USE 1/4" TAPCONS 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.
11. FOR ANCHORING INTO METAL STRUCTURE USE #14 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
12. ALL FASTENERS TO BE CORROSION RESISTANT.
13. 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 3,192 PSI.
  - C. MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
  - D. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 1/8" THICK MINIMUM

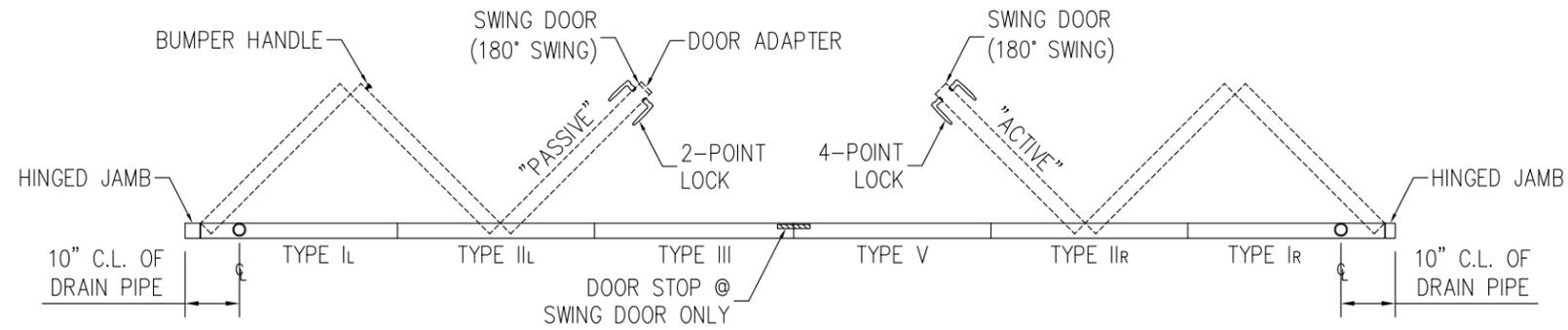
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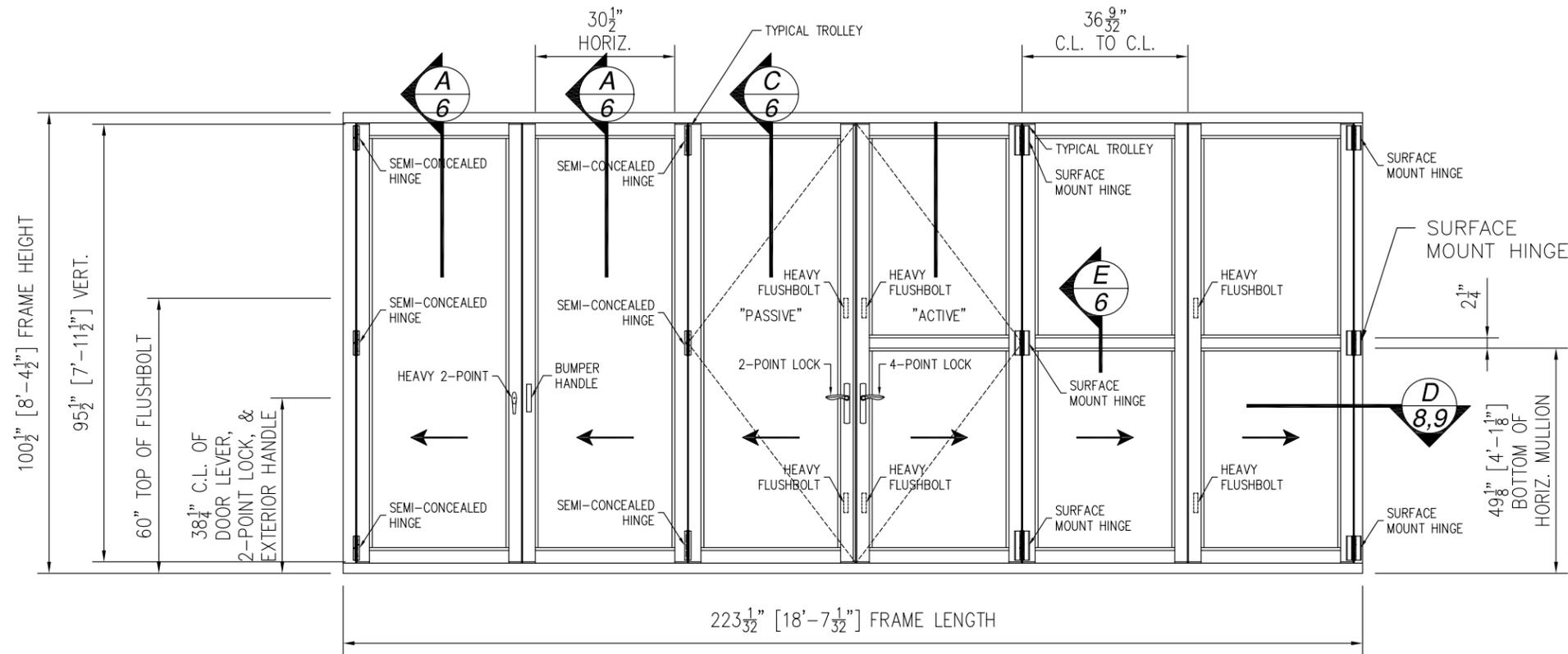
<b>SOLAR INNOVATIONS, INC.</b> 31 ROBERTS RD PINE GROVE, PA 17963		
SI 3350 FGW 3x8 PANEL INFOLD ALUMINUM REINFORCED – IMPACT NOTES		
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DESIGN PRESSURE RATING	IMPACT RATING
<b>±80.0PSF</b>	<b>LARGE AND SMALL MISSILE IMPACT</b>

MISSILE LEVEL D, WIND ZONE 4  
WITH STANDARD SILL

DESIGN PRESSURE RATING	IMPACT RATING
<b>±80.0PSF</b>	<b>LARGE AND SMALL MISSILE IMPACT</b>

MISSILE LEVEL D, WIND ZONE 4  
WITH FLUSH SILL

**SI 3350 FGW 3X8 PANEL INFOLD ALUMINUM REINFORCED**  
EXTERIOR VIEW

**HARDWARE SCHEDULE**

A. SEMI-CONCEALED HINGE BY SOLAR INNOVATIONS
B. 2 POINT HANDLE & LOCK MS000487-XX BY SOLAR INNOVATIONS
C. 4 POINT HANDLE & LOCK BY SOLAR INNOVATIONS
D. HEAVY FLUSH BOLTS MD000442-00-XX BY SOLAR INNOVATIONS
E. SURFACE MOUNT HINGE BY SOLAR INNOVATIONS

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PINE GROVE, PA 17963

SI 3350 FGW 3x8 PANEL INFOLD  
ALUMINUM REINFORCED - IMPACT  
ELEVATION

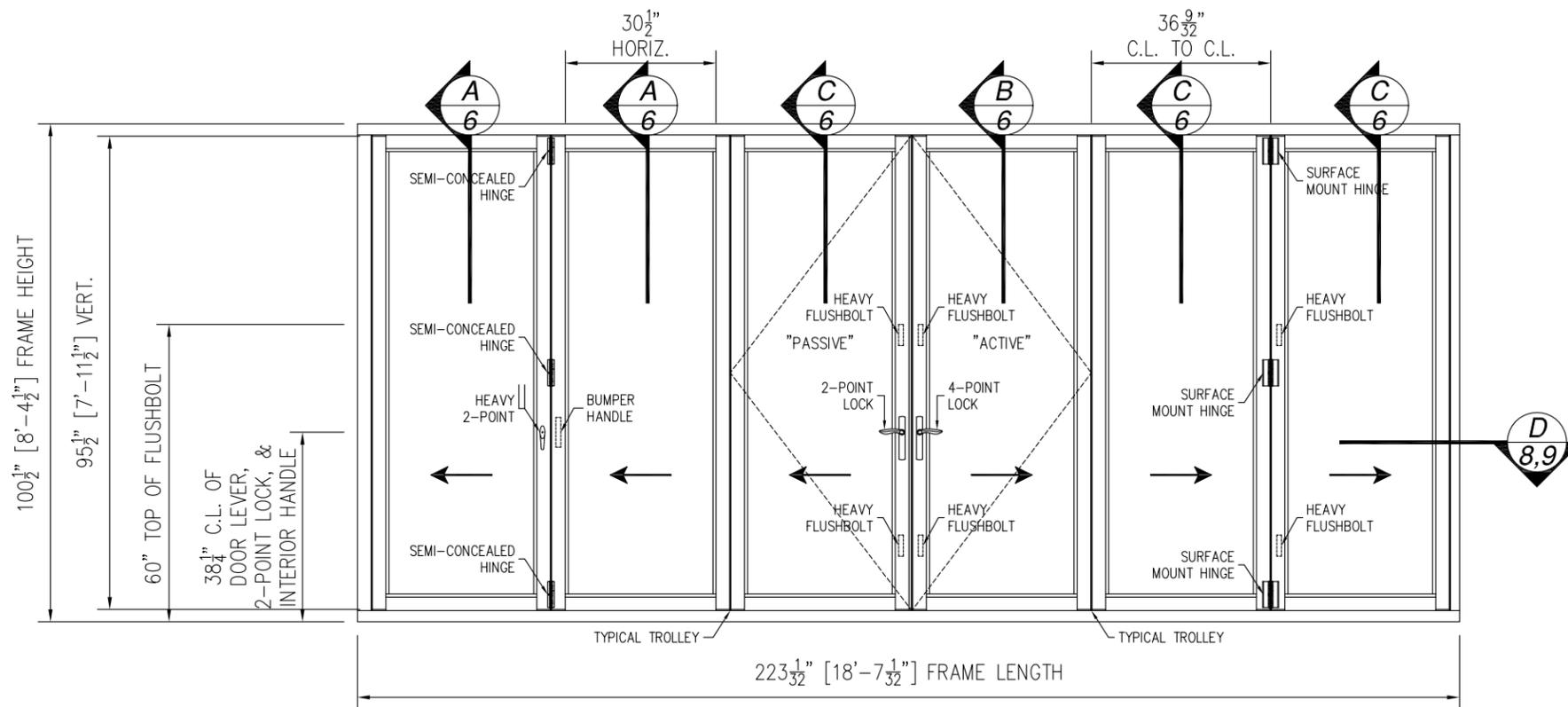
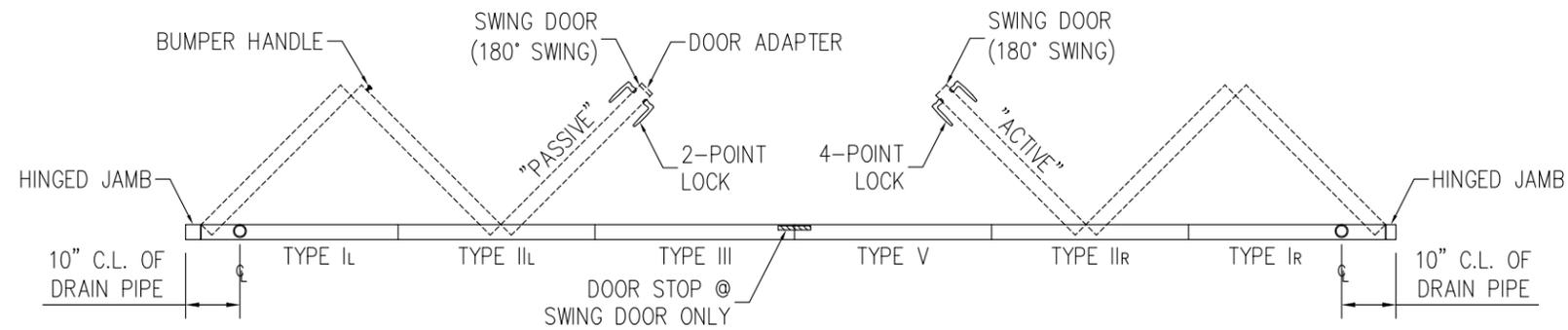
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DESIGN PRESSURE RATING	IMPACT RATING
±80.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 WITH STANDARD SILL

DESIGN PRESSURE RATING	IMPACT RATING
±80.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 WITH FLUSH SILL

**SI 3350 FGW 3x8 PANEL INFOLD ALUMINUM REINFORCED**  
EXTERIOR VIEW

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SI 3350 FGW 3x8 PANEL INFOLD  
ALUMINUM REINFORCED - IMPACT  
ELEVATION

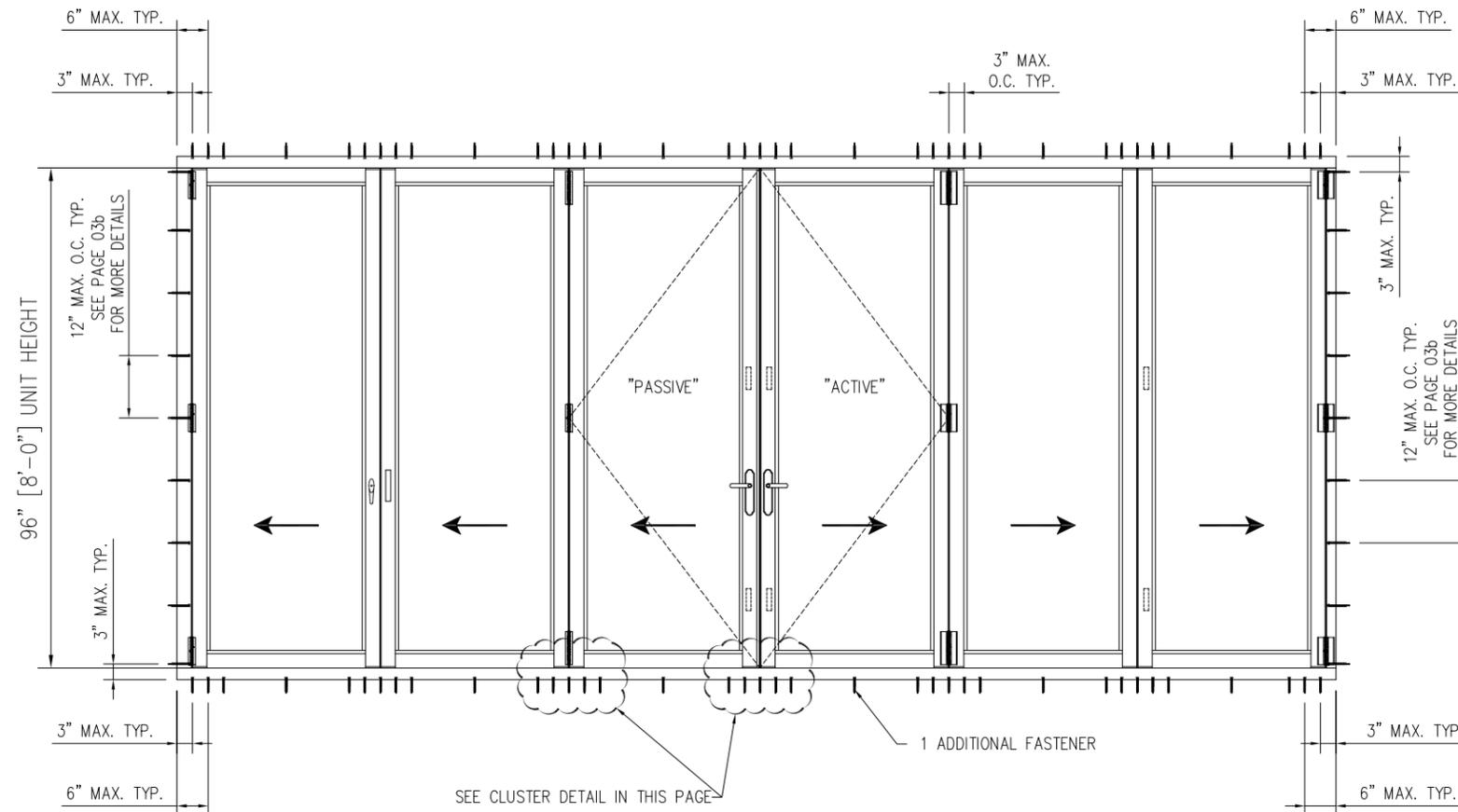
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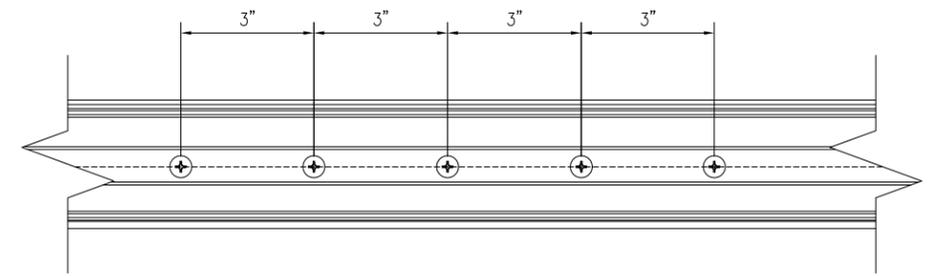


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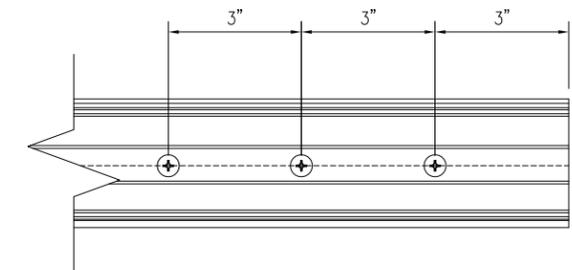
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**ANCHOR LAYOUT**  
 APPLICABLE TO ALL CONFIGURATIONS.



**SILL AND HEAD CLUSTER DETAIL**



**SILL AND HEAD END DETAIL**

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SI 3350 FGW 3x8 PANEL INFOLD  
 ALUMINUM REINFORCED - IMPACT  
 ANCHORING LAYOUTS

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PARTS LIST				
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	H-12498-A	DUAL WHEEL HEAD/SILL ASSY	KEYMARK	ALUMINUM 6063-T5
2	S45004	FRAME	KEYMARK	ALUMINUM 6063-T5
3	S347112	FRAME CAP	KEYMARK	ALUMINUM 6063-T5
4	H07559	FRAME LUG	KEYMARK	ALUMINUM 6063-T5
5	NOT USED			
6	47086	HANDLE - LOW PROFILE	KEYMARK	ALUMINUM 6063-T5
7		HANDLE - RECESSED/FLUSH	KEYMARK	ALUMINUM 6063-T5
8	34713	GLASS STOP 1"	KEYMARK	ALUMINUM 6063-T5
9	34715	GLASS STOP 9/16"	KEYMARK	ALUMINUM 6063-T5
10		JAMB REINFORCEMENT	SOLAR	STEEL
11	H10686	HINGE EXTENSION	KEYMARK	ALUMINUM 6063-T5
12	S50311	TROLLEY BODY	KEYMARK	ALUMINUM 6063-T6
13	34717	IDLER BODY	KEYMARK	ALUMINUM 6063-T5
14	H07606	HINGE	KEYMARK	ALUMINUM 6063-T5
15	S34841	HINGE COVER	KEYMARK	ALUMINUM 6063-T5
16	H07562	HINGE BARREL	KEYMARK	ALUMINUM 6063-T5
17		HINGE SEMI CONOEALD	KEYMARK	ALUMINUM 6063-T5
18	S47543	FRAME LOW PROFILE	KEYMARK	ALUMINUM 6063-T5
19	4498-02-00	MULTIFIN GASKET	EPG	EPDM 70 SHORE A
20		#10-32 X 1/2" FH SS SCREW		
21		#6 X 1/2" FH SELF DRILLING SCREW		
22		1/8" SETTING BLOCK		
23		FLASHING		
24		#8 X 1/2" PH SELF DRILLING SCREW		
25		TROLLEY COVER	KEYMARK	ALUMINUM 6063-T5
26		#8-32 X 3/8" FH SMS		
27		3/4" ARROW SHIM		
28		1/8" HARD SHIM		
29		SIKA 552	SIKA	
30		TROLLEY ASSY BOTTOM LOAD		ALUMINUM 6063-T5
31	34720	DOOR STOP	KEYMARK	ALUMINUM 6063-T5

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REV	DESCRIPTION	DATE	APPROVED

PARTS LIST				
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
32		#10-24 X 1/2" FH SMS		
33		#12 X 1 FH SELF DRILLING SCREW		
34	GA000247-00-02	GASKET		
35		2 POINT LOCK		
36		#10-32 X 1" FH SMS		
37	49050	SLIDE-IN DOOR STOP	KEYMARK	ALUMINUM 6063-T5
38	GA000022-00-02	BULB GASKET		
39	40921	DOOR ADAPTER	KEYMARK	ALUMINUM 6063-T5
40		FLUSH BOLT		
41		DOOR SWEEP GASKET		
42		DOOR LEVER "MILAN" 4-POINT LOCK		
43	44793	MULLION	KEYMARK	ALUMINUM 6063-T5
44		SURFACE MOUNT HINGE	KEYMARK	ALUMINUM 6063-T5
45		#10-32 X 3/8 FH SMS		
46		DOOR LEVER "TORONTO" 4-POINT LOCK		
47		REINFORCEMENT	KEYMARK	ALUMINUM 6063-T5
48	12497/12498	FLUSH SILL	KEYMARK	ALUMINUM 6063-T5

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SI 3350 FGW 3x8 PANEL INFOLD ALUMINUM REINFORCED - IMPACT B.O.M.		
DRAWN: N.G.	DWG NO. 08-02656	REV -
SCALE NTS	DATE 03/23/15	SHEET 5 OF 15

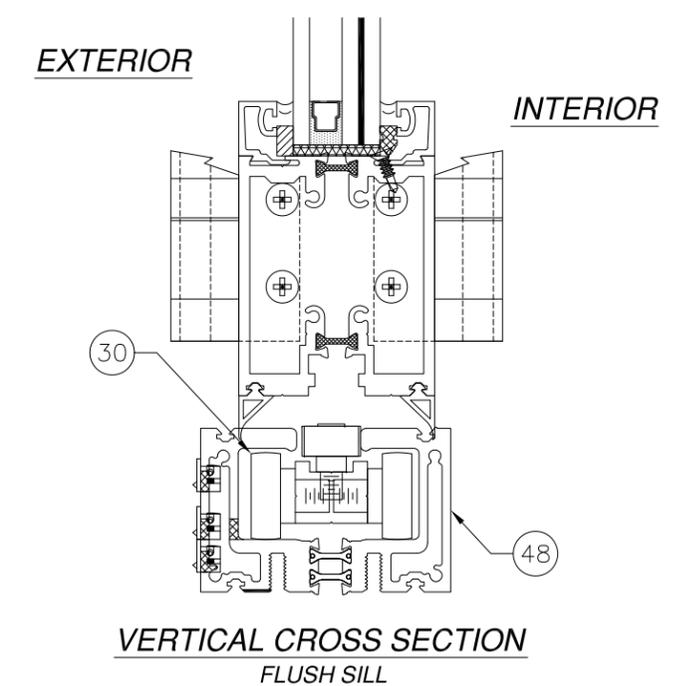
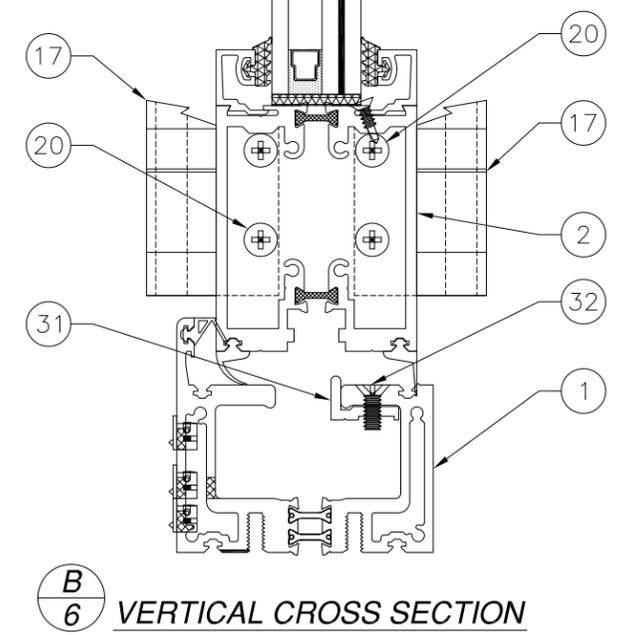
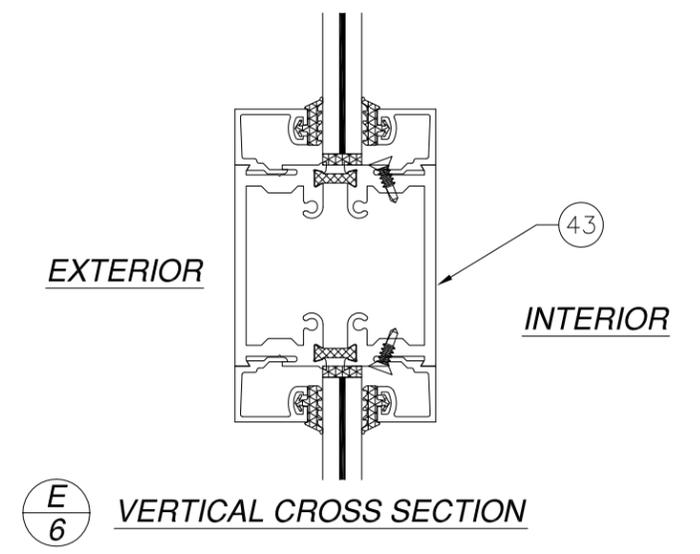
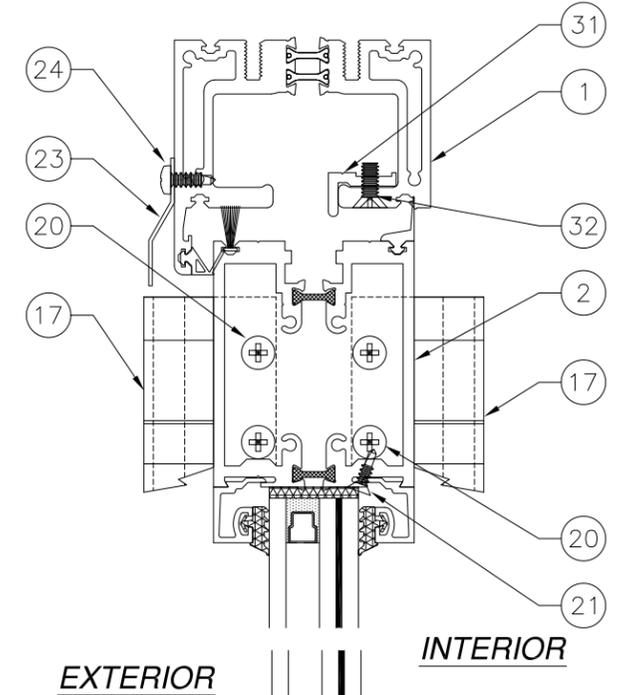
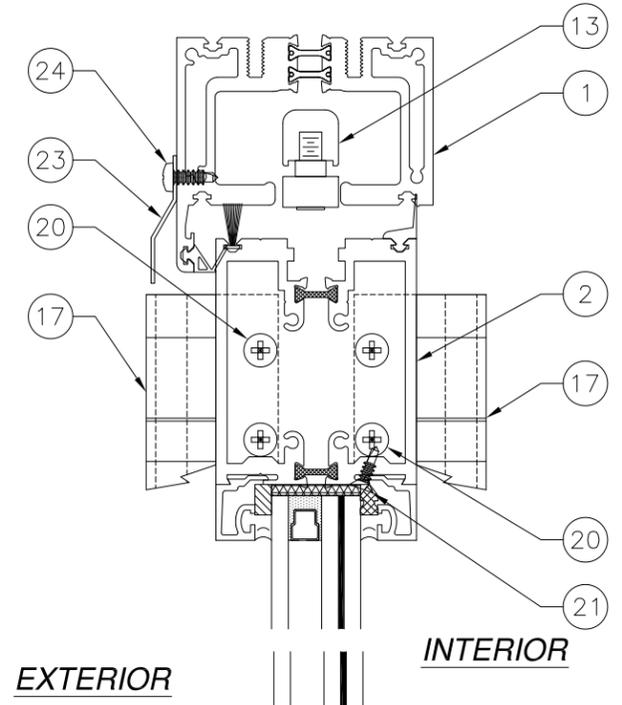
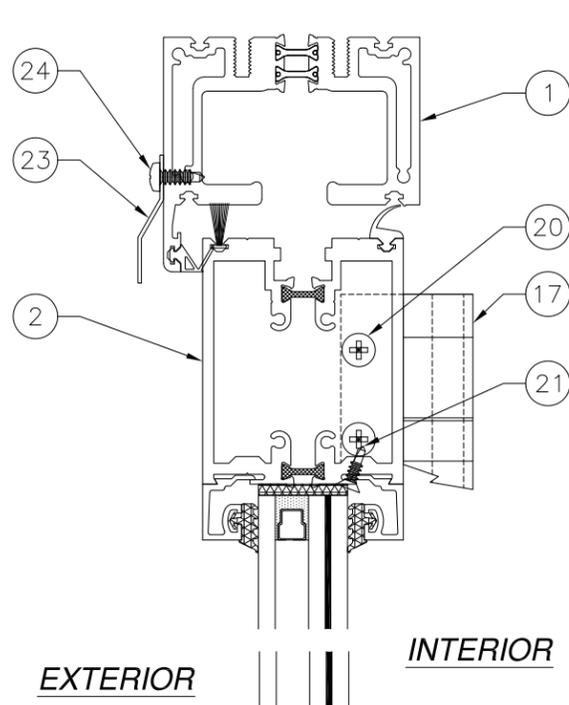
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31 ROBERTS RD  
PINE GROVE, PA 17963

SI 3350 FGW 3x8 PANEL INFOLD  
ALUMINUM REINFORCED - IMPACT  
VERTICAL CROSS SECTIONS

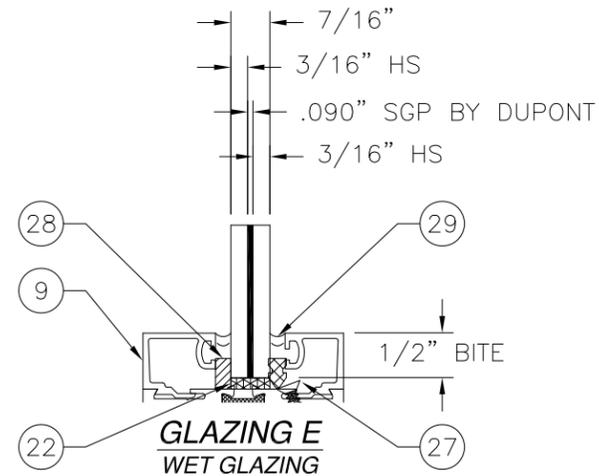
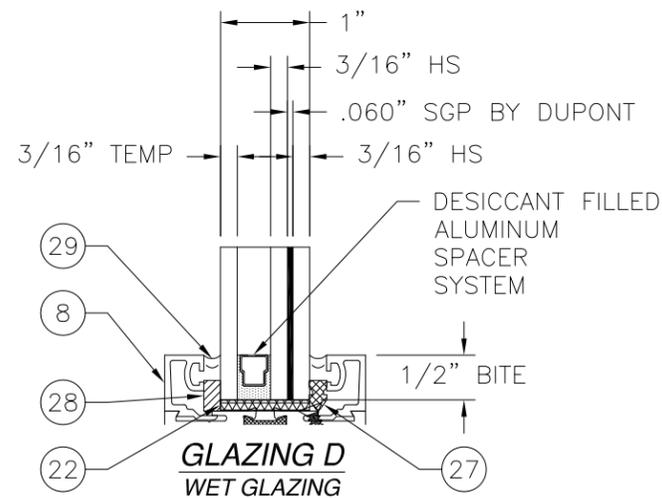
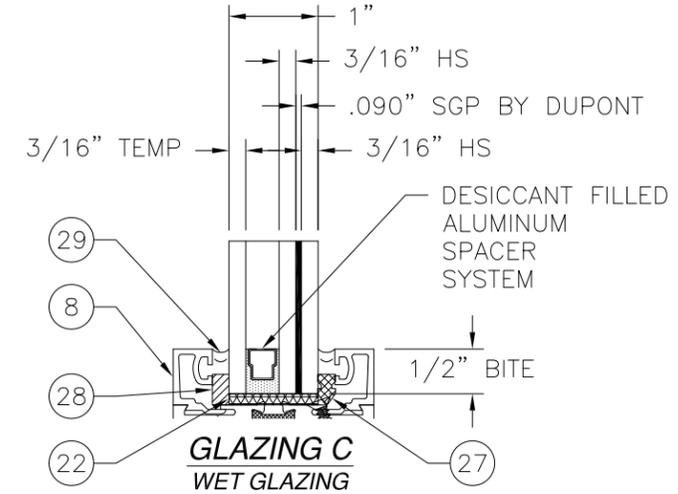
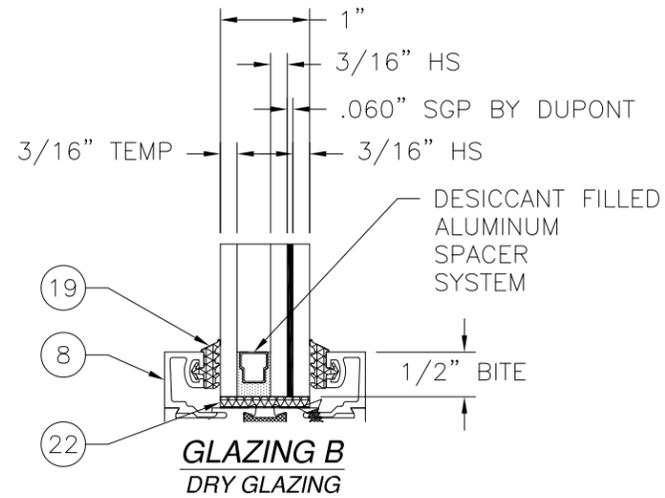
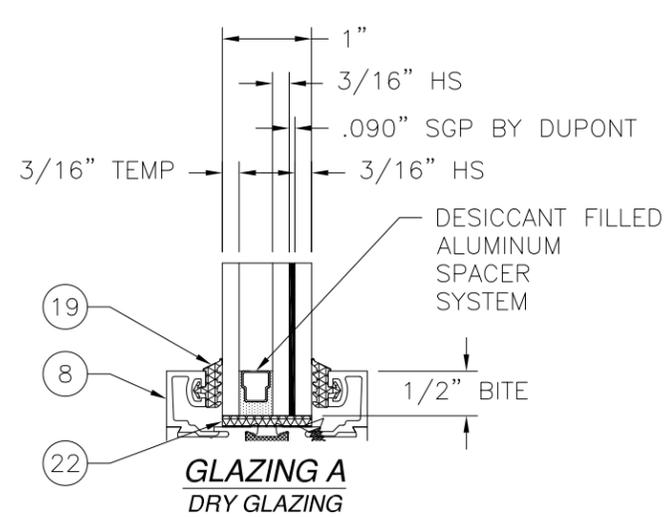
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SI 3350 FGW 3x8 PANEL INFOLD  
ALUMINUM REINFORCED – IMPACT  
GLAZING DETAILS

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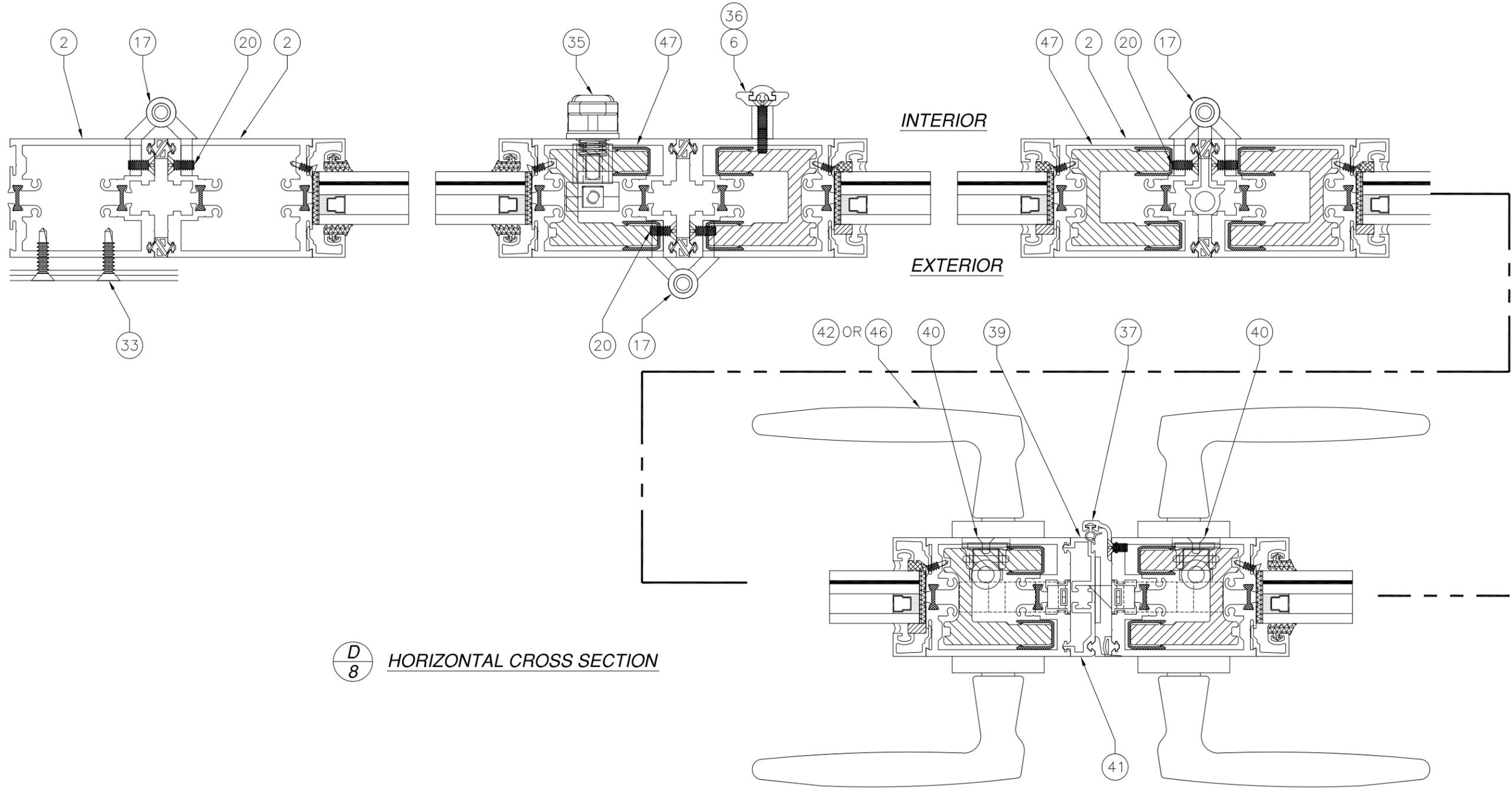
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$\frac{D}{8}$  HORIZONTAL CROSS SECTION

CONTINUED  
 IN SHEET 9

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SI 3350 FGW 3x8 PANEL INFOLD  
 ALUMINUM REINFORCED – IMPACT  
 HORIZONTAL CROSS SECTIONS

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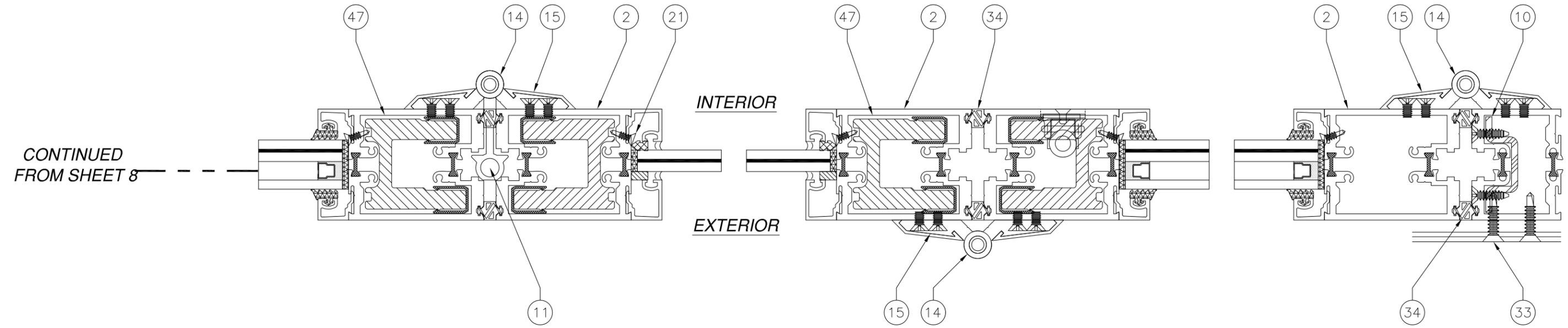
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$\frac{D}{9}$  HORIZONTAL CROSS SECTION

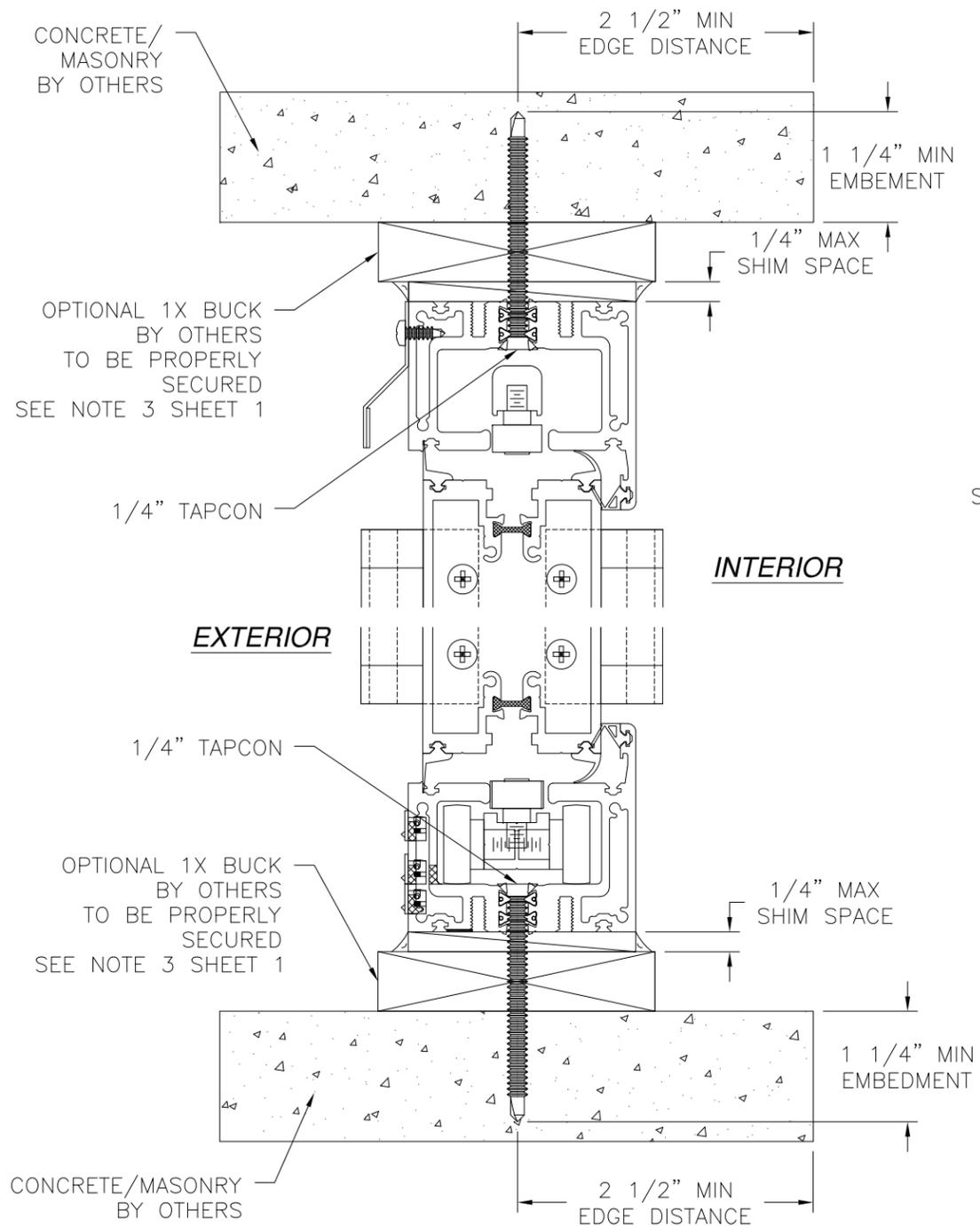
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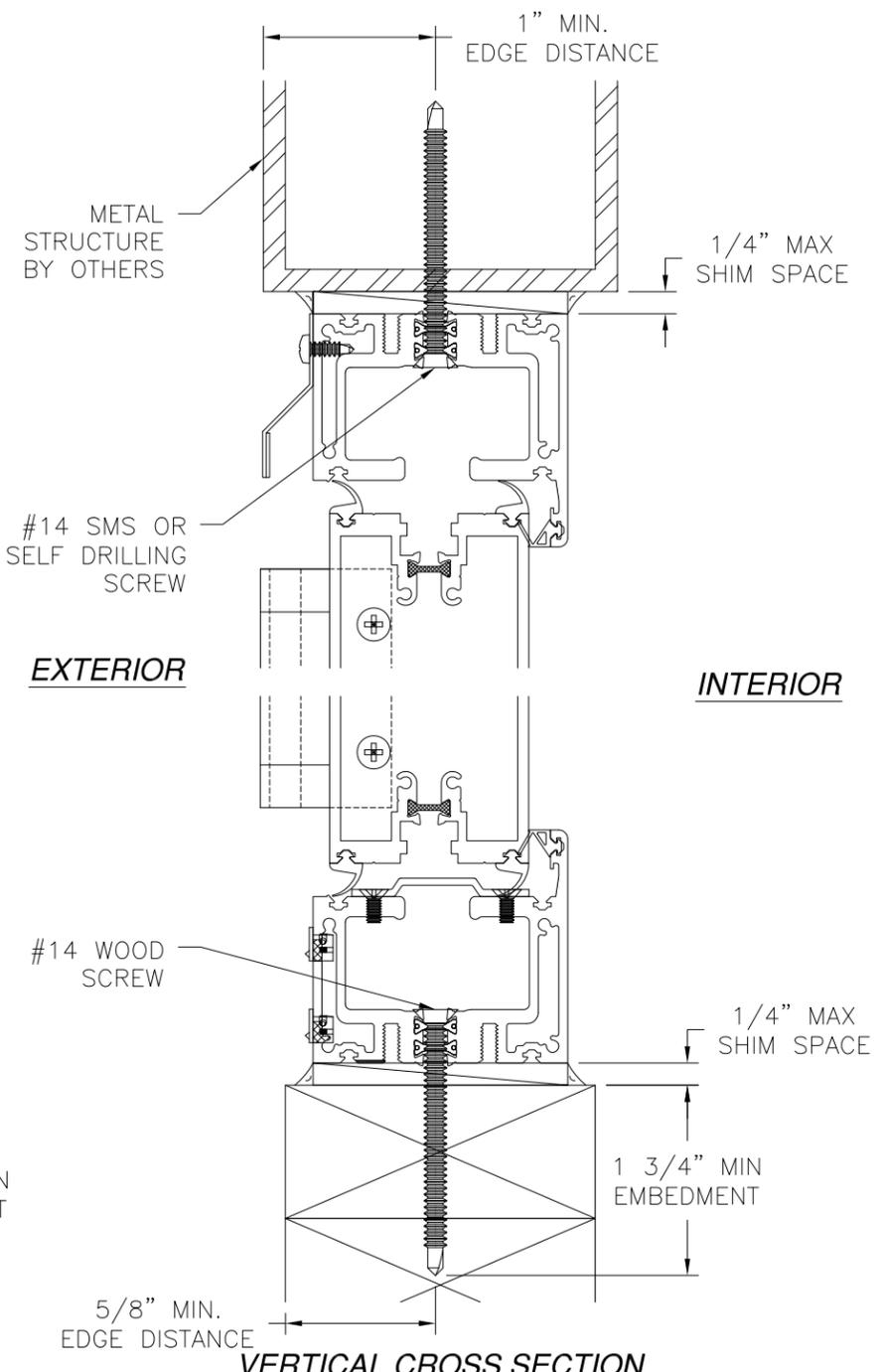
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SI 3350 FGW 3x8 PANEL INFOLD ALUMINUM REINFORCED – IMPACT HORIZONTAL CROSS SECTIONS		
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**VERTICAL CROSS SECTION**  
**CONCRETE/MASONRY INSTALLATION**  
**STANDARD SILL, FLUSH SILL SIMILAR**



**VERTICAL CROSS SECTION**  
**WOOD FRAMING OR 2X BUCK**  
**OR METAL STRUCTURE INSTALLATION**  
**STANDARD SILL, FLUSH SILL SIMILAR**

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

**NOTES:**  
 1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.  
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

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SI 3350 FGW 3x8 PANEL INFOLD  
 ALUMINUM REINFORCED – IMPACT  
 INSTALLATION DETAILS

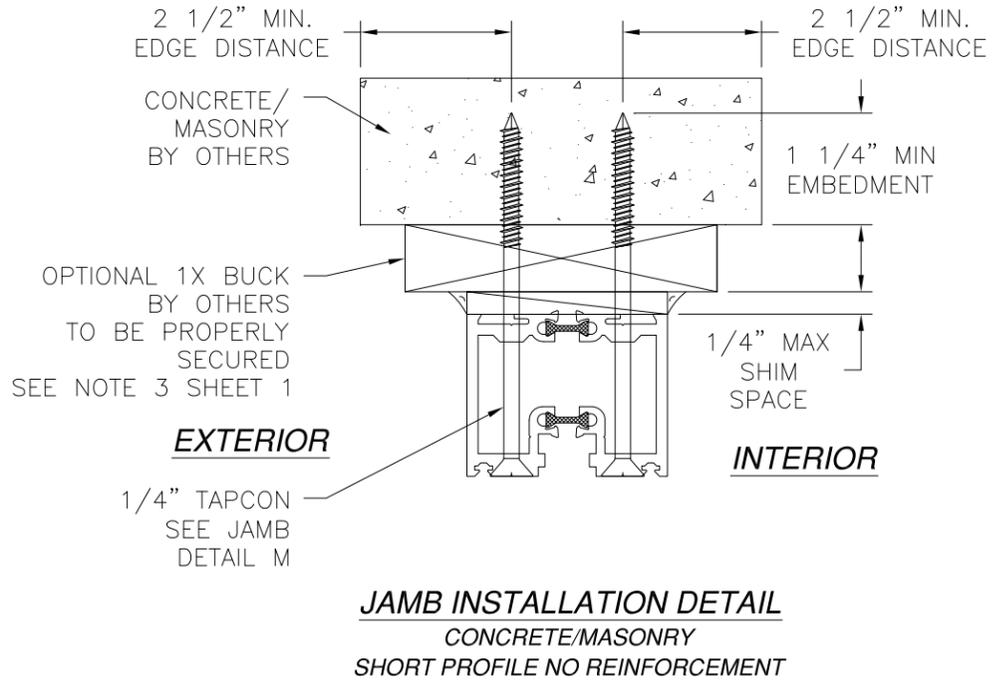
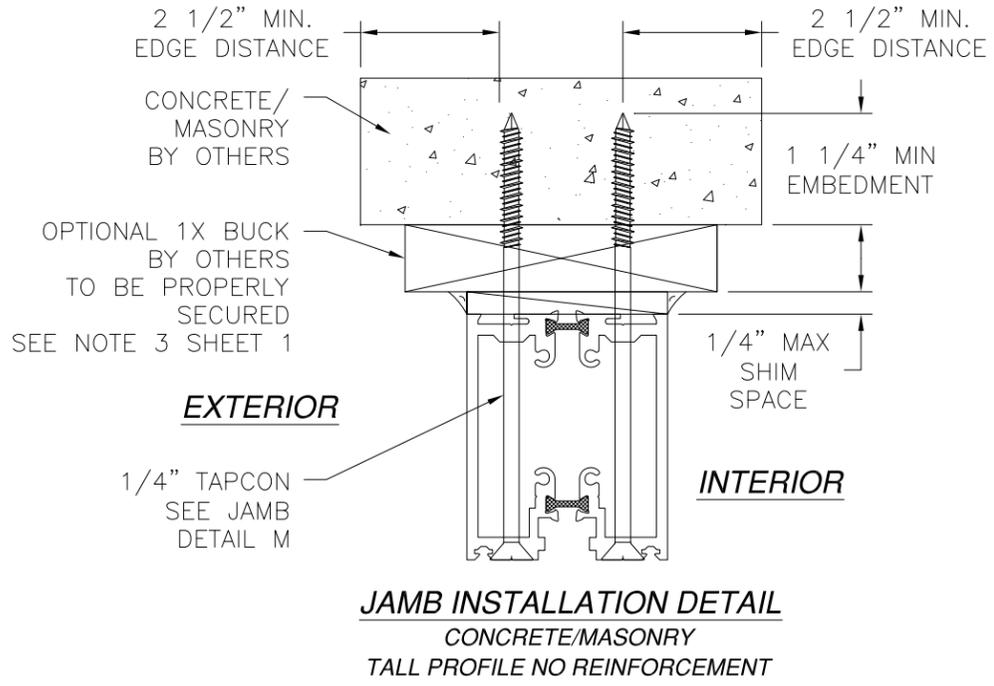
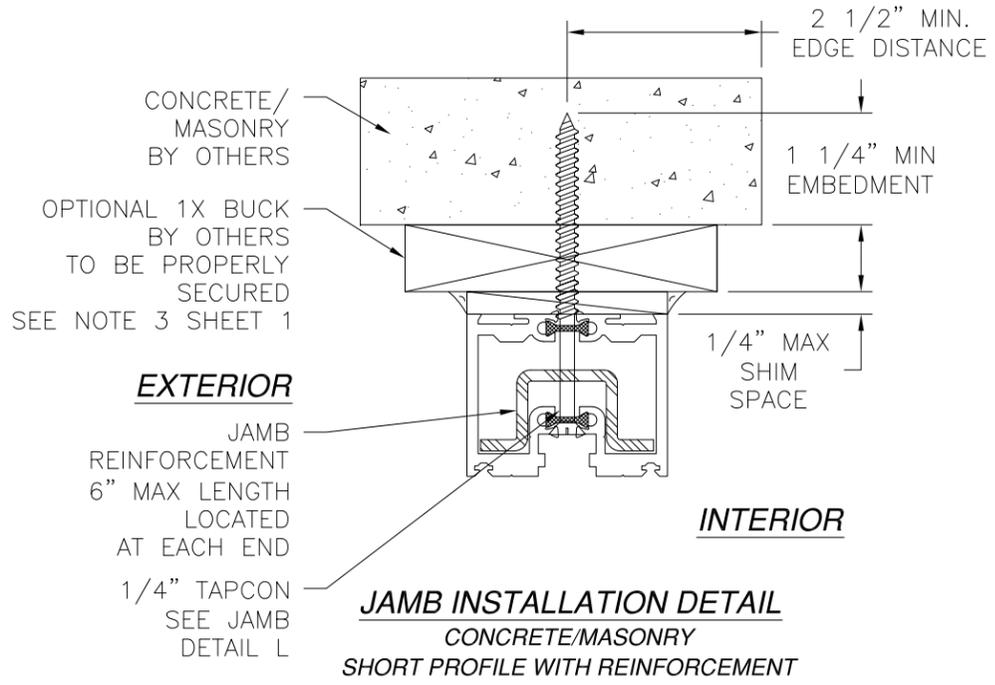
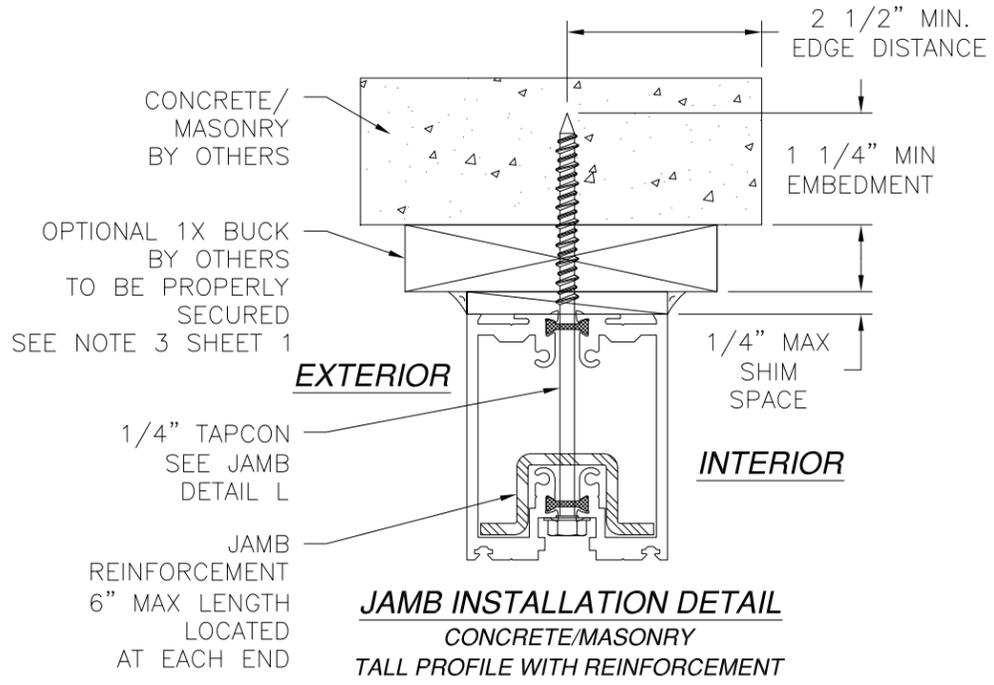
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SI 3350 FGW 3x8 PANEL INFOLD  
 ALUMINUM REINFORCED – IMPACT  
 INSTALLATION DETAILS

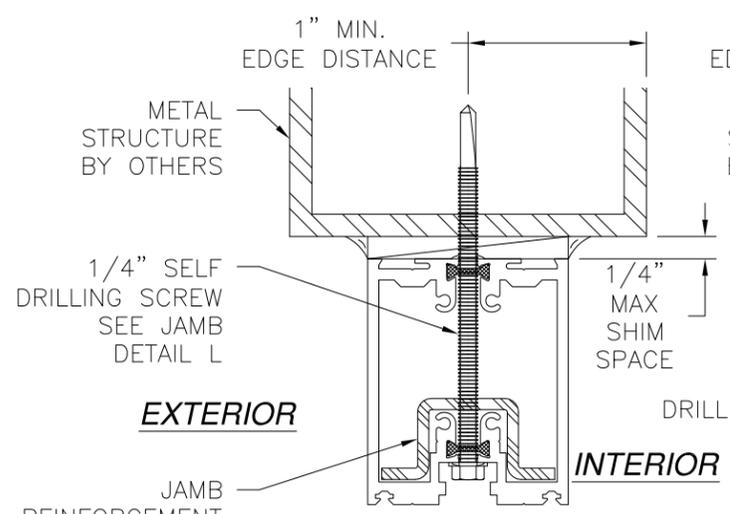
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SCALE NTS	DATE 03/23/15	SHEET 11 OF 15

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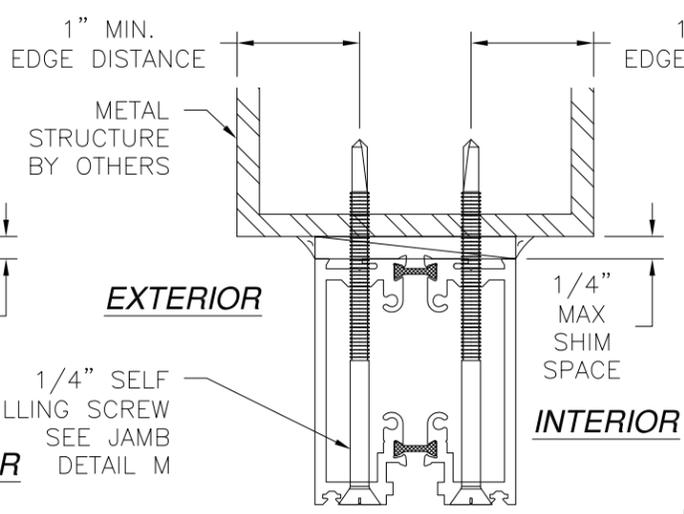


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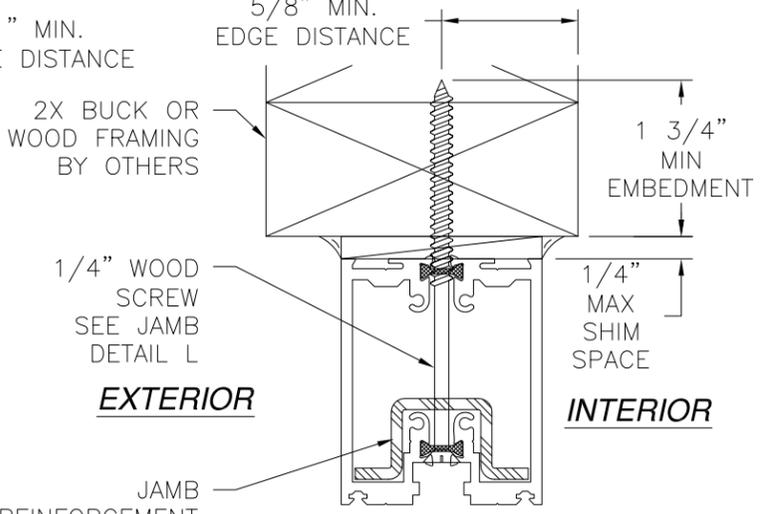
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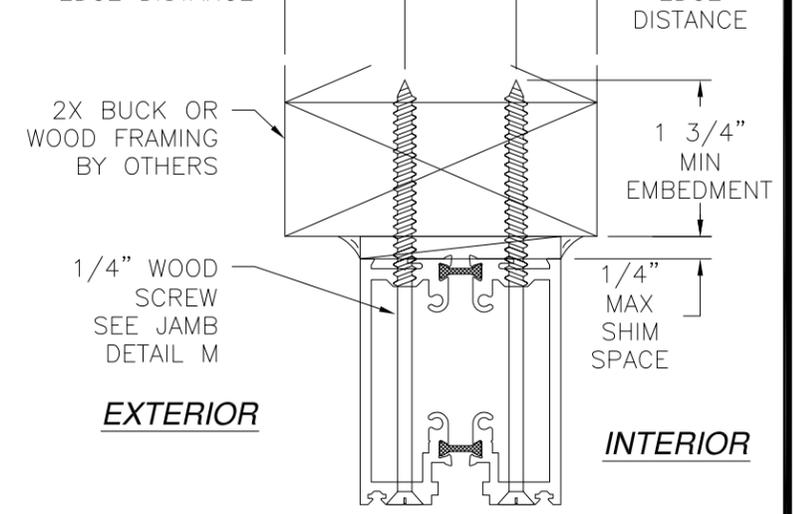
**JAMB INSTALLATION DETAIL**  
METAL STRUCTURE  
TALL PROFILE WITH REINFORCEMENT



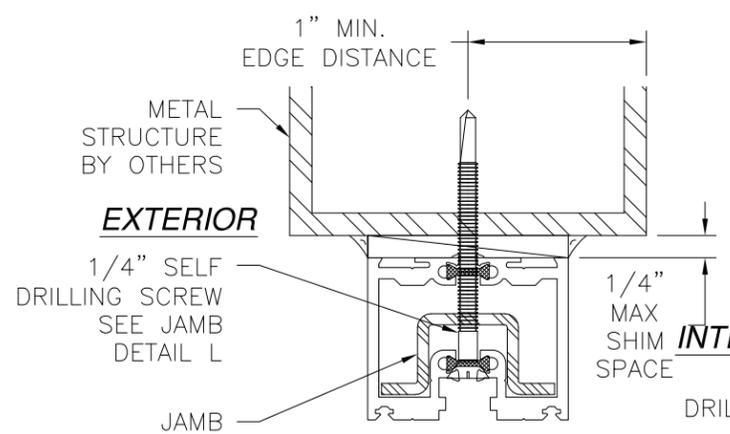
**JAMB INSTALLATION DETAIL**  
METAL STRUCTURE  
TALL PROFILE NO REINFORCEMENT



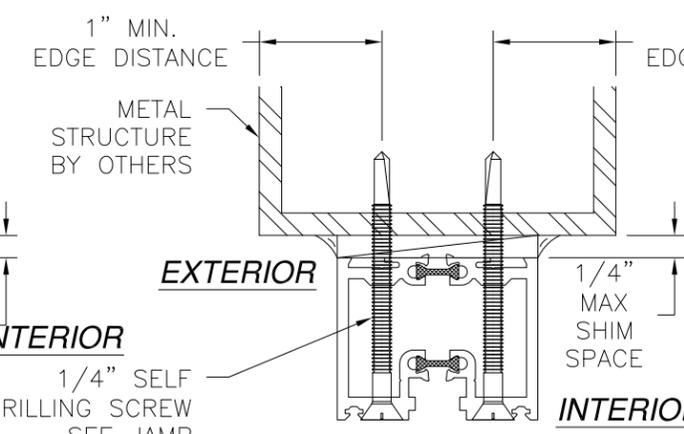
**JAMB INSTALLATION DETAIL**  
2X BUCK OR WOOD FRAMING  
TALL PROFILE WITH REINFORCEMENT



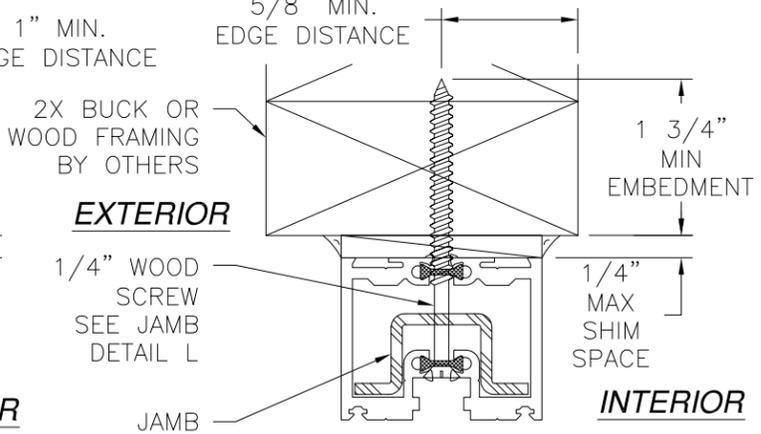
**JAMB INSTALLATION DETAIL**  
2X BUCK OR WOOD FRAMING  
TALL PROFILE NO REINFORCEMENT



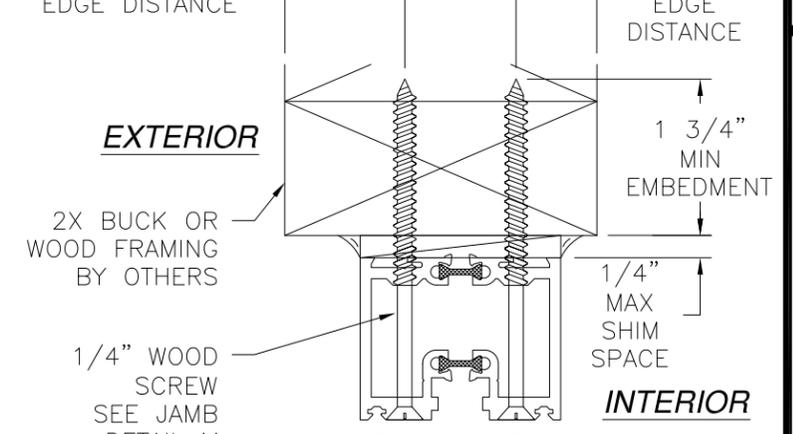
**JAMB INSTALLATION DETAIL**  
METAL STRUCTURE  
TALL PROFILE WITH REINFORCEMENT



**JAMB INSTALLATION DETAIL**  
METAL STRUCTURE  
SHORT PROFILE NO REINFORCEMENT



**JAMB INSTALLATION DETAIL**  
2X BUCK OR WOOD FRAMING  
SHORT PROFILE WITH REINFORCEMENT



**JAMB INSTALLATION DETAIL**  
2X BUCK OR WOOD FRAMING  
SHORT PROFILE NO REINFORCEMENT

SIGNED: 03/24/2015

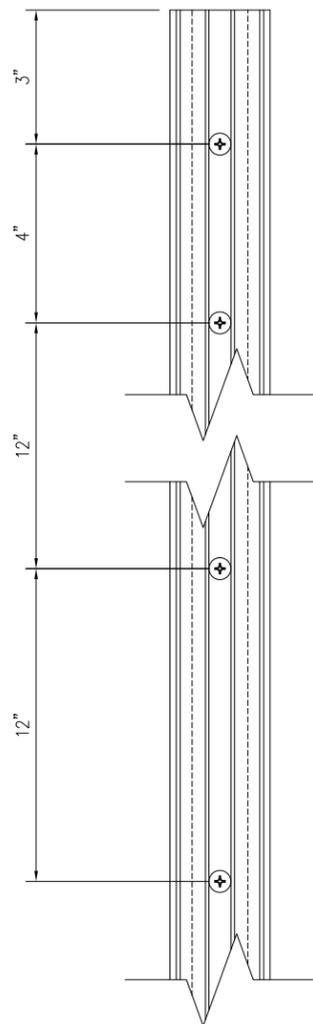
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**NOTES:**  
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.  
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

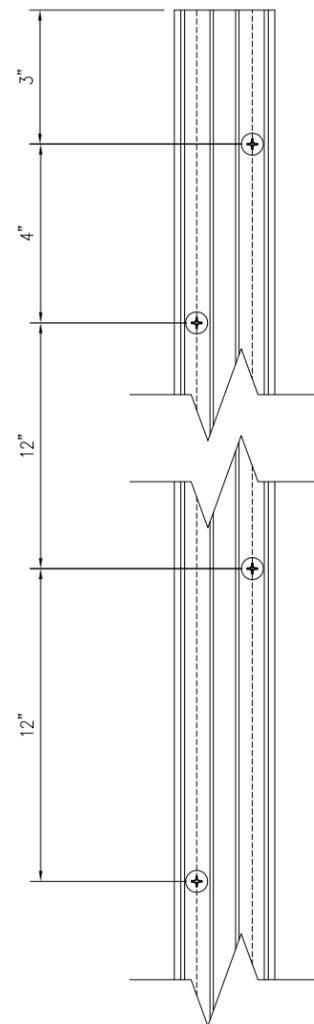
<b>SOLAR INNOVATIONS, INC.</b>		
31 ROBERTS RD PINE GROVE, PA 17963		
SI 3350 FGW 3x8 PANEL INFOLD ALUMINUM REINFORCED – IMPACT INSTALLATION DETAILS		
DRAWN: N.G.	DWG NO. 08-02656	REV -
SCALE NTS	DATE 03/23/15	SHEET 12 OF 15

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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



**JAMB INSTALLATION DETAIL L**  
JAMB WITH REINFORCEMENT



**JAMB INSTALLATION DETAIL M**  
JAMB WITHOUT REINFORCEMENT

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31 ROBERTS RD  
PINE GROVE, PA 17963

SI 3350 FGW 3x8 PANEL INFOLD  
ALUMINUM REINFORCED – IMPACT  
INSTALLATION DETAILS

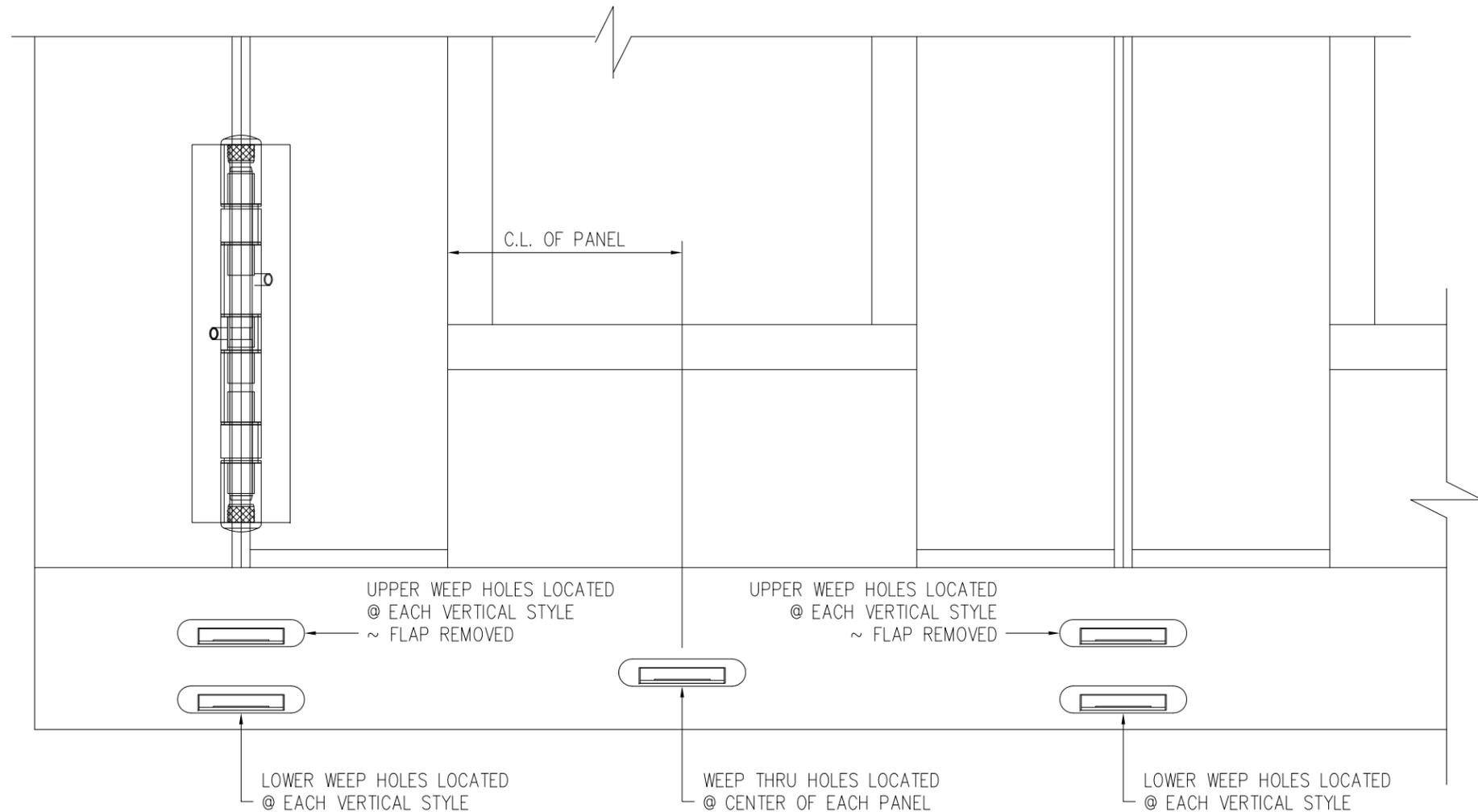
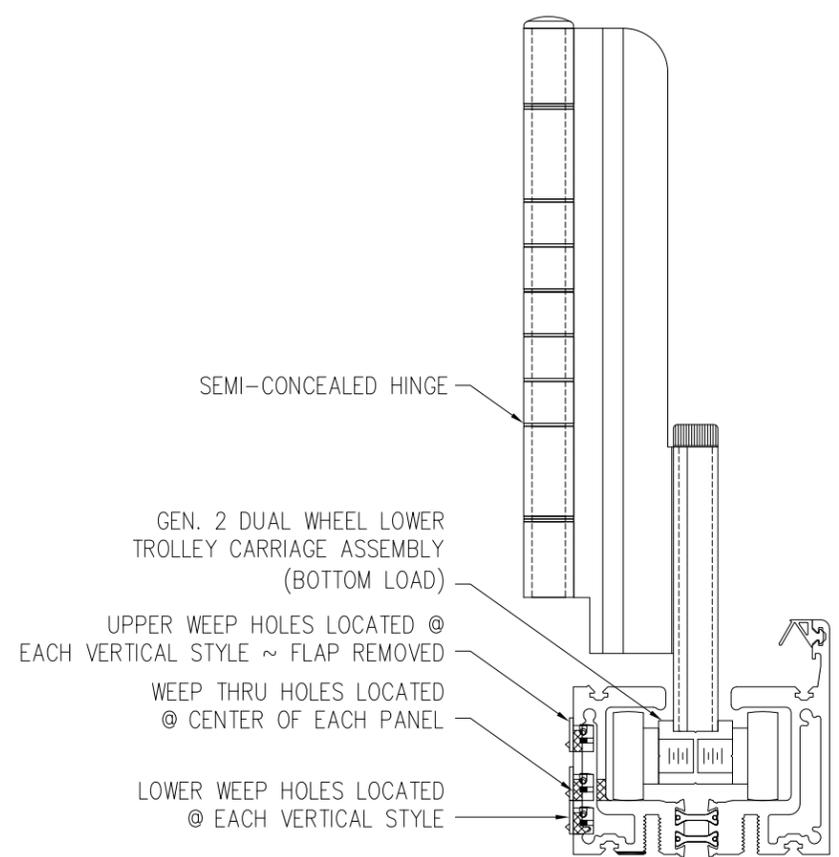
DRAWN: N.G.	DWG NO. 08-02656	REV -
SCALE NTS	DATE 03/23/15	SHEET 13 OF 15

SIGNED: 03/24/2015



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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



WEEP LOCATIONS

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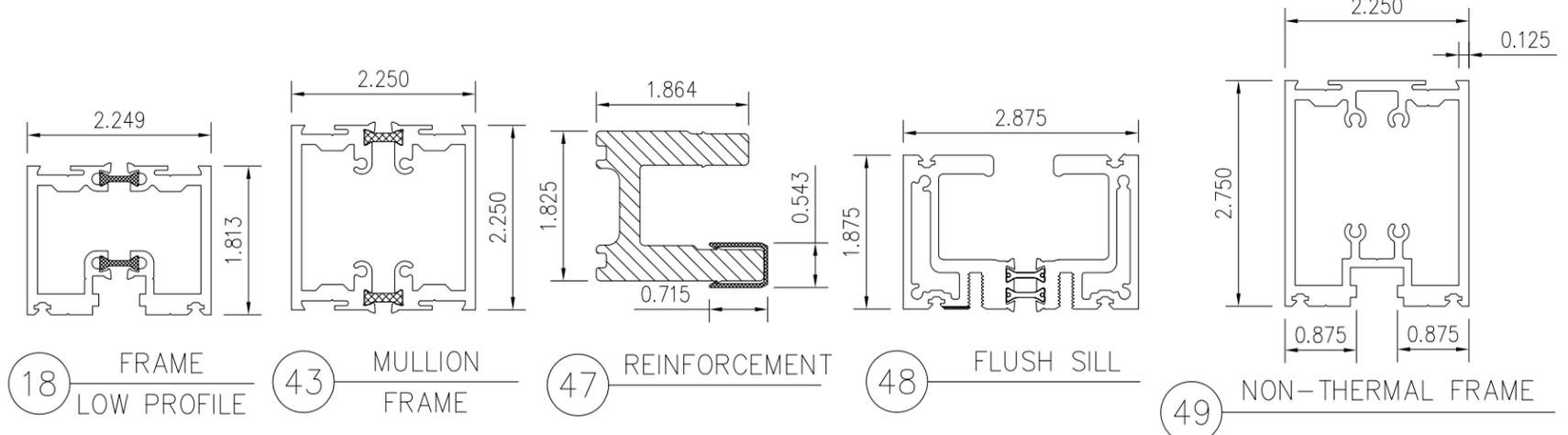
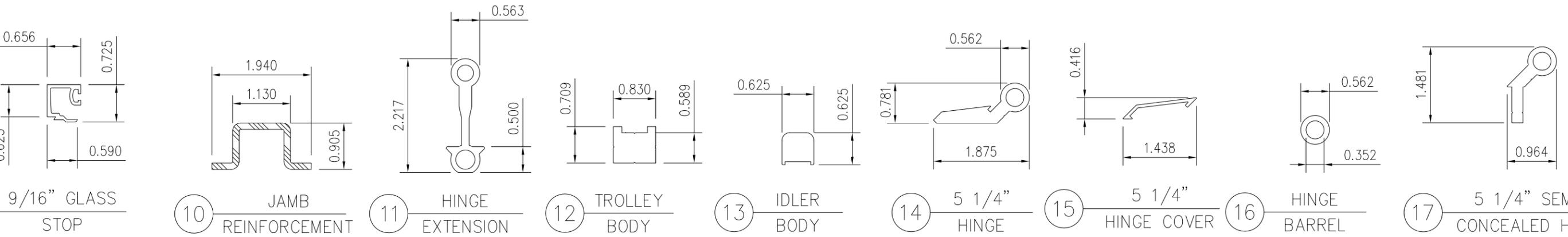
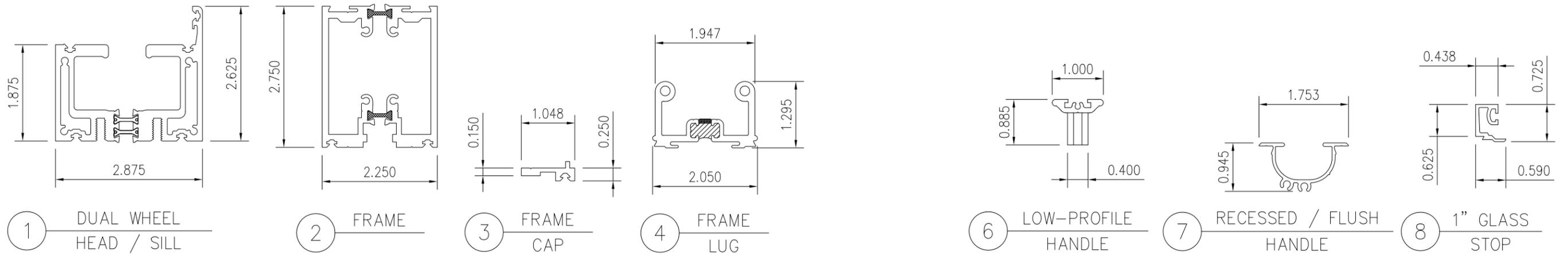
<b>SOLAR INNOVATIONS, INC.</b> 31 ROBERTS RD PINE GROVE, PA 17963		
SI 3350 FGW 3x8 PANEL INFOLD ALUMINUM REINFORCED – IMPACT WEEP LOCATIONS		
DRAWN: N.G.	DWG NO. 08-02656	REV -
SCALE NTS	DATE 03/23/15	SHEET 14 OF 15

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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



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**SOLAR INNOVATIONS, INC.**  
 31 ROBERTS RD  
 PINE GROVE, PA 17963

SI 3350 FGW 3x8 PANEL INFOLD  
 ALUMINUM REINFORCED - IMPACT  
 COMPONENTS

DRAWN: N.G.	DWG NO. 08-02656	REV -
SCALE NTS	DATE 03/23/15	SHEET 15 OF 15

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