

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/2023	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HVHZ.
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. 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. BUCKS SHALL EXTEND BEYOND UNIT FRAME INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
5. 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.
6. FRAME MATERIAL: ALUMINUM 6063-T6, 6063-T5 AND 6005A-T5.
7. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 7 FOR GLASS DETAILS.
8. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
9. 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 3/8".

10. 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.
11. FOR ANCHORING INTO MASONRY/CONCRETE USE 1/4" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
12. 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.
13. ALL FASTENERS TO BE CORROSION RESISTANT.
14. 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:
 - 14.1. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
 - 14.2. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.
 - 14.3. MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - 14.4. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 .125" THICK MINIMUM

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

SERIES SI3000 FGW 3X8 PANEL INFOLD
ALUMINUM REINFORCED – IMPACT – HVHZ
NOTES

DRAWN:
V.L.

DWG NO.
08-01792

REV
F

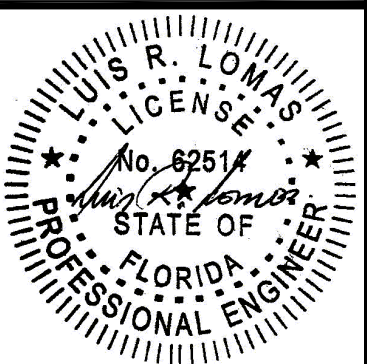
SCALE NTS

DATE 09/19/12

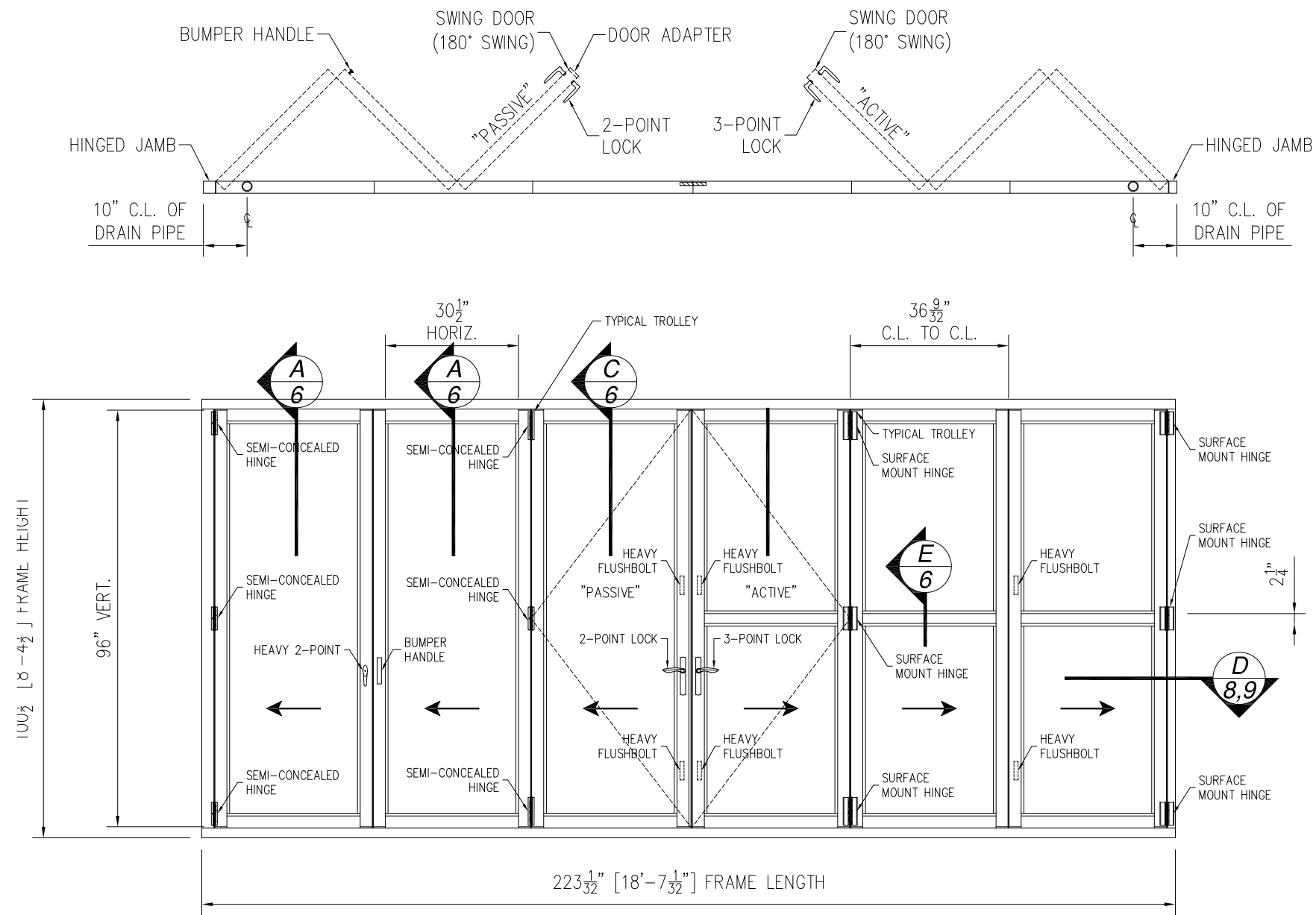
SHEET 1 OF 16

L. ROBERTO LOMAS P.E.
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434-688-0609 rllomas@lrlomaspe.com

SIGNED: 12/12/2023



Luis R. Lomas P.E.
FL No.: 62514



SERIES SI3000 FGW 3X8 PANEL INFOLD ALUMINUM REINFORCED
EXTERIOR VIEW

UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATION ARE APPROVED
AS LONG AS INDIVIDUAL PANEL AREA DOES NOT EXCEED 24.06 FT² AND USES VERTICAL CONDITIONS AS SHOWN.

HARDWARE SCHEDULE

A. SEMI-CONCEALED HINGE BY SOLAR INNOVATIONS
B 2 POINT HANDLE & LOCK MS000487-XX BY SOLAR INNOVATIONS
C 3 POINT HANDLE & LOCK BY SOLAR INNOVATIONS
D HEAVY FLUSH BOLTS MS000442-00-XX BY SOLAR INNOVATIONS
E SURFACE MOUNT HINGE BY SOLAR INNOVATIONS

REVISIONS			
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WHERE WATER RESISTANCE IS REQUIRED, SEE CHART #1 SHEET 4

DESIGN PRESSURE RATING	IMPACT RATING
+60.0/-80.0PSF	LARGE & SMALL MISSILE IMPACT
MISSILE LEVEL D, WIND ZONE 4 AND HVHZ	

WHERE WATER RESISTANCE IS NOT REQUIRED, SEE CHART #2 SHEET 4

DESIGN PRESSURE RATING	IMPACT RATING
±80.0PSF	LARGE & SMALL MISSILE IMPACT
MISSILE LEVEL D, WIND ZONE 4 AND HVHZ	

WITH FLUSH SILL, SEE CHART #3 SHEET 4

DESIGN PRESSURE RATING	IMPACT RATING
+60.0/-70.0PSF	LARGE & SMALL MISSILE IMPACT
MISSILE LEVEL D, WIND ZONE 4 AND HVHZ	

WITH NON-THERMAL PANEL, SEE CHART #3 SHEET 4

DESIGN PRESSURE RATING	IMPACT RATING
+60.0/-70.0PSF	LARGE & SMALL MISSILE IMPACT
MISSILE LEVEL D, WIND ZONE 4 AND HVHZ	

SOLAR INNOVATIONS, INC.

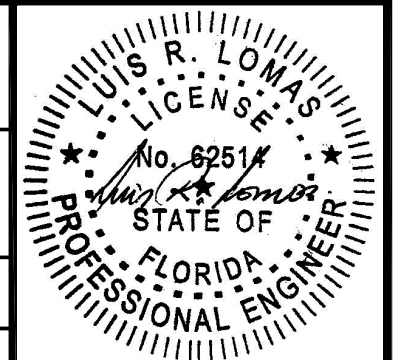
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PINE GROVE, PA 17963

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ALUMINUM REINFORCED – IMPACT – HVHZ
ELEVATION

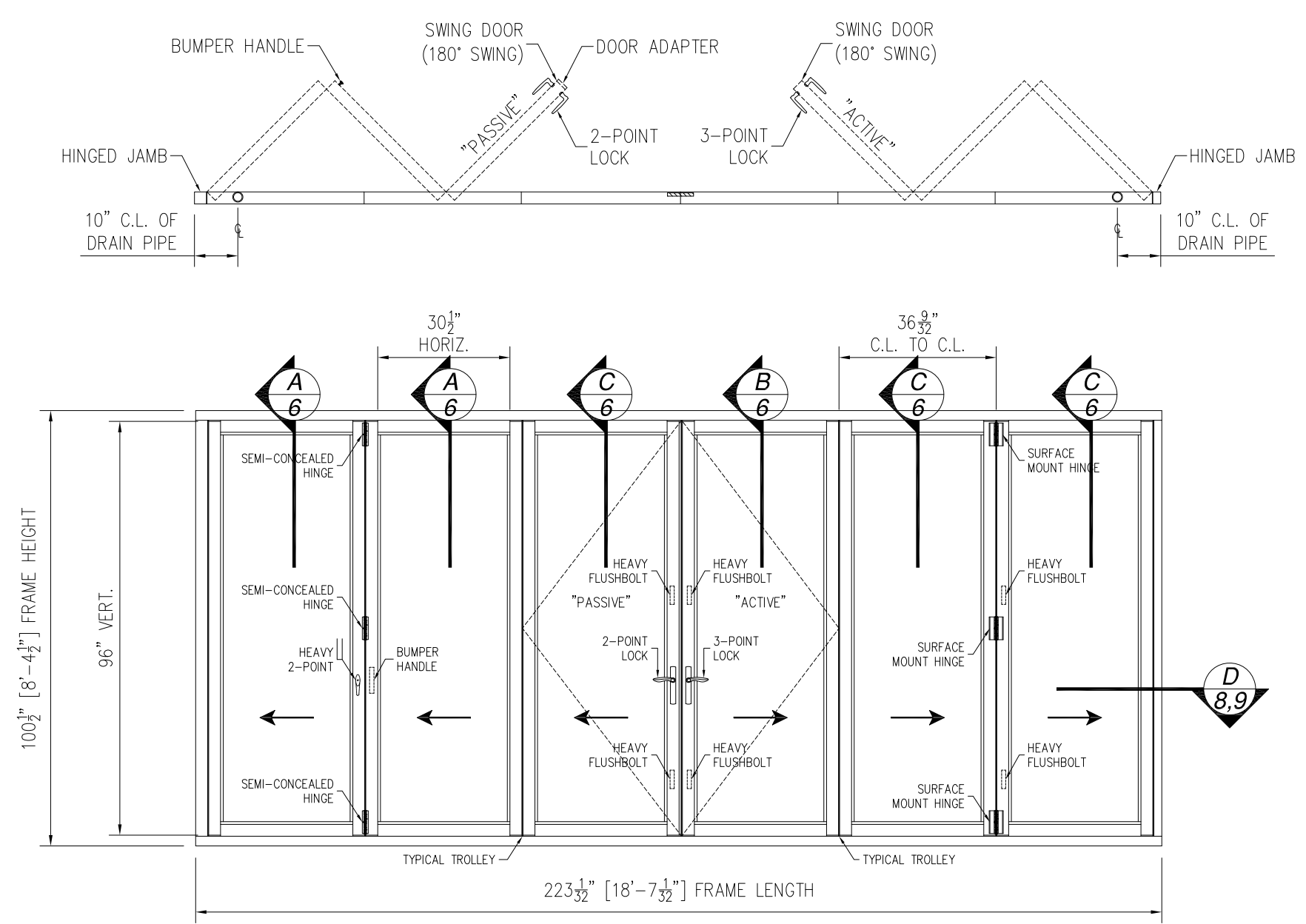
DRAWN: V.L.	DWG NO. 08-01792	REV F
SCALE NTS	DATE 09/19/12	SHEET 2 OF 16

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SERIES SI3000 FGW 3x8 PANEL INFOLD ALUMINUM REINFORCED

EXTERIOR VIEW

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WHERE WATER RESISTANCE IS REQUIRED, SEE CHART #1 SHEET 4

DESIGN PRESSURE RATING	IMPACT RATING
+60.0/-80.0PSF	LARGE & SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

WHERE WATER RESISTANCE IS NOT REQUIRED, SEE CHART #2 SHEET 4

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

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

WITH FLUSH SILL, SEE CHART #3 SHEET 4

DESIGN PRESSURE RATING	IMPACT RATING
+60.0/-70.0PSF	LARGE & SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

WITH NON-THERMAL PANEL, SEE CHART #3 SHEET 4

DESIGN PRESSURE RATING	IMPACT RATING
+60.0/-70.0PSF	LARGE & SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

SOLAR INNOVATIONS, INC.

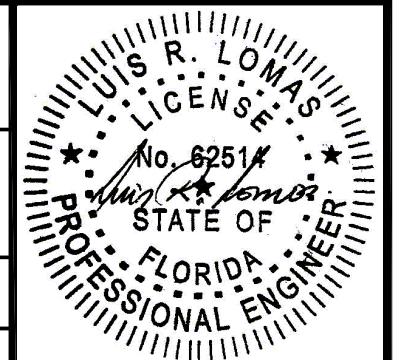
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ALUMINUM REINFORCED – IMPACT – HVHZ
ELEVATION

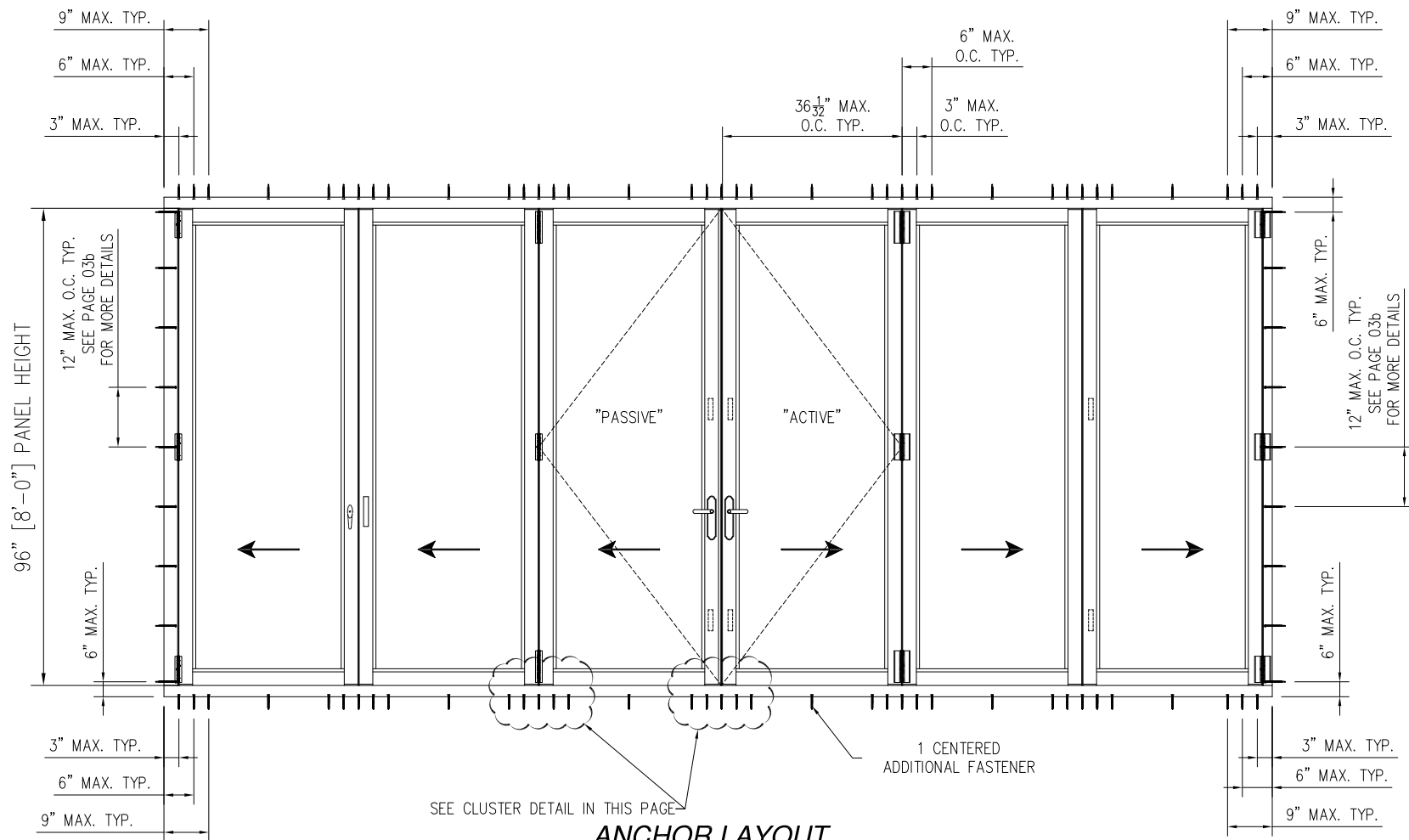
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SCALE NTS	DATE 09/19/12	SHEET 3 OF 16

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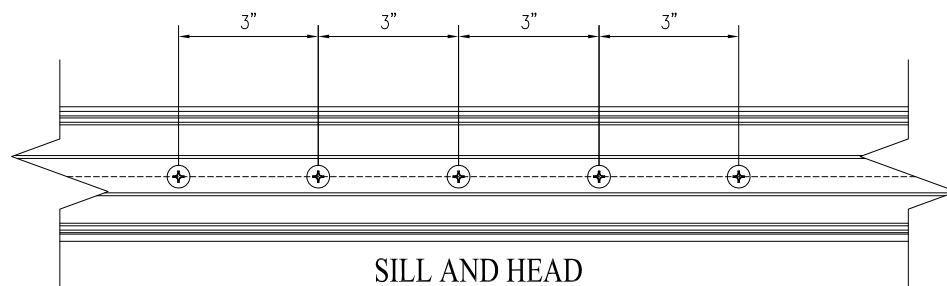
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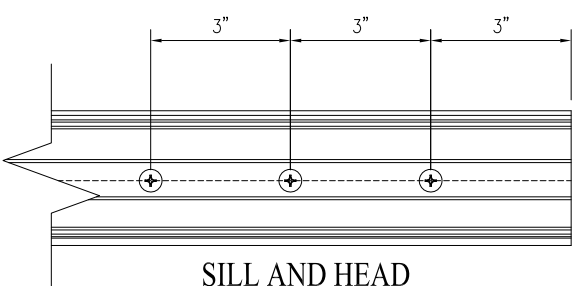
Luis R. Lomas P.E.
FL No.: 62514



SEE CLUSTER DETAIL IN THIS PAGE
ANCHOR LAYOUT
APPLICABLE TO ALL CONFIGURATIONS.



SILL AND HEAD
CLUSTER DETAIL



SILL AND HEAD
END DETAIL

Chart # 3 Maximum Design pressure (psf)										
Panel Height (in)	Single Panel Width (in)									
	24.0		30.0		36.281		42.0		44.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
78.0	60.0	80.0	60.0	80.0	60.0	80.0	60.0	74.4	60.0	71.0
84.0	60.0	80.0	60.0	80.0	60.0	80.0	-	-	-	-
90.0	60.0	80.0	60.0	80.0	60.0	80.0	60.0	74.7	-	-
96.0	60.0	80.0	60.0	80.0	60.0	70.0	-	-	-	-
102.0	60.0	80.0	60.0	69.0	-	-	-	-	-	-
108.0	60.0	71.5	57.9	57.9	-	-	-	-	-	-
114.0	60.0	60.7	49.1	49.1	-	-	-	-	-	-
120.0	52.0	52.0	-	-	-	-	-	-	-	-
126.0	44.8	44.8	-	-	-	-	-	-	-	-
132.0	38.9	38.9	-	-	-	-	-	-	-	-
138.0	34.0	34.0	-	-	-	-	-	-	-	-
144.0	29.9	29.9	-	-	-	-	-	-	-	-

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Chart # 1 Maximum Design pressure (psf)										
Panel Height (in)	Single Panel Width (in)									
	24.0		30.0		36.281		42.0		44.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
78.0	60.0	80.0	60.0	80.0	60.0	80.0	60.0	80.0	60.0	80.0
84.0	60.0	80.0	60.0	80.0	60.0	80.0	-	-	-	-
90.0	60.0	80.0	60.0	80.0	60.0	80.0	-	-	-	-
96.0	60.0	80.0	60.0	80.0	60.0	80.0	-	-	-	-
102.0	60.0	80.0	60.0	78.8	-	-	-	-	-	-
108.0	60.0	80.0	60.0	66.1	-	-	-	-	-	-
114.0	60.0	69.4	56.1	56.1	-	-	-	-	-	-
120.0	59.4	59.4	-	-	-	-	-	-	-	-
126.0	51.2	51.2	-	-	-	-	-	-	-	-
132.0	44.5	44.5	-	-	-	-	-	-	-	-
138.0	38.9	38.9	-	-	-	-	-	-	-	-
144.0	34.2	34.2	-	-	-	-	-	-	-	-

Chart # 2 Maximum Design pressure (psf)										
Panel Height (in)	Single Panel Width (in)									
	24.0		30.0		36.281		42.0		44.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
78.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
84.0	80.0	80.0	80.0	80.0	80.0	80.0	-	-	-	-
90.0	80.0	80.0	80.0	80.0	80.0	80.0	-	-	-	-
96.0	80.0	80.0	80.0	80.0	80.0	80.0	-	-	-	-
102.0	80.0	80.0	78.8	78.8	-	-	-	-	-	-
108.0	80.0	80.0	66.1	66.1	-	-	-	-	-	-
114.0	69.4	69.4	56.1	56.1	-	-	-	-	-	-
120.0	59.4	59.4	-	-	-	-	-	-	-	-
126.0	51.2	51.2	-	-	-	-	-	-	-	-
132.0	44.5	44.5	-	-	-	-	-	-	-	-
138.0	38.9	38.9	-	-	-	-	-	-	-	-
144.0	34.2	34.2	-	-	-	-	-	-	-	-

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

SERIES SI3000 FGW 3X8 PANEL INFOLD
ALUMINUM REINFORCED – IMPACT – HVHZ
ANCHORING LAYOUT AND DESIGN PRESSURE CHARTS

DRAWN: V.L. DWG NO. 08-01792 REV F

SCALE NTS DATE 09/19/12 SHEET 4 OF 16

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SIGNED: 12/12/2023

Luis R. Lomas P.E.
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PARTS LIST			
NO.	PART NUMBER	DESCRIPTION	MATERIAL
1	EA012497	DUAL WHEEL HEAD/SILL ASSY	ALUMINUM 6063-T6
2	S45004	REGULAR THERMAL FRAME	ALUMINUM 6063-T6
3	S54168	FRAME CAP	ALUMINUM 6063-T6
4	H07559	FRAME LUG	ALUMINUM 6063-T5
6	S47086	HANDLE – LOW PROFILE	ALUMINUM 6063-T5
7	S45995	HANDLE – RECESSED/FLUSH	ALUMINUM 6063-T52
8	S34713	GLASS STOP 1”	ALUMINUM 6063-T6
9	S34715	GLASS STOP 9/16”	ALUMINUM 6063-T6
11	H11722	HINGE EXTENSION – HEAVY	ALUMINUM 6005A-T4
12	S50311	TROLLY BODY	ALUMINUM 6005A-T5
13	S34717	IDLER BODY	ALUMINUM 6063-T5
14	H07606	HINGE	ALUMINUM 6063-T5
15	S34841	HINGE COVER	ALUMINUM 6063-T5
17	H10684	HINGE SEMI CONCEALED	ALUMINUM 6105-T5
18	S47543	FRAME LOW PROFILE	ALUMINUM 6063-T6
19	GA000012	MULTFIN GASKET	EPDM 70 SHORE A
20	FA000447	#10-32 X 5/8” FH SS SCREW	
22	CN001129	1/8” SETTING BLOCK	
25	S59568	TROLLY COVER	ALUMINUM 6063-T5
26	FA001037	#8-32 X 1/4” CS MS	
27	GA000017	ARROW SHIM	
28		1/8” HARD SHIM	
29		SILPRUF	
30		TROLLY ASSY BOTTOM LOAD	ALUMINUM 6063-T5

ITEMS 5, 10, 21, 23, 24, 31, 32 ARE NOT USED

REVISIONS			
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F	REVISED SEALS AND ANCHORS	12/01/2023	R.L.

PARTS LIST			
NO.	PART NUMBER	DESCRIPTION	MATERIAL
33		#12 X 1 FH SELF DRILLING SCREW	
34	GA000418-00-02	GASKET	
35		2 POINT LOCK	
36	FA000448	#10-32 X 1” CS MS	
37	S52262	SLIDE-IN DOOR STOP	ALUMINUM 6063-T5
38	GA000022-00-02	BULB GASKET	
39	S40921	DOOR ADAPTER	ALUMINUM 6063-T6
40		FLUSH BOLT	
41	GA000384	DOOR SWEEP GASKET	
42		2POINT LOCK	
43	S44793	MULLION	ALUMINUM 6063-T6
44		SURFACE MOUNT HINGE	ALUMINUM 6063-T5
45	FA001010	#10-32 X 3/8 FH SMS	
46		3 POINT LOCK	
47	S49375	REGULAR RAIL INSERT	ALUMINUM 6063-T5
48	H12497/H13486	FLUSH SILL	ALUMINUM 6063-T5
49	H12862	NON-THERMAL FRAME	ALUMINUM 6063-T5

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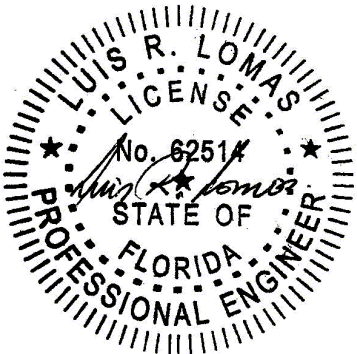
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SHEET 5 OF 16

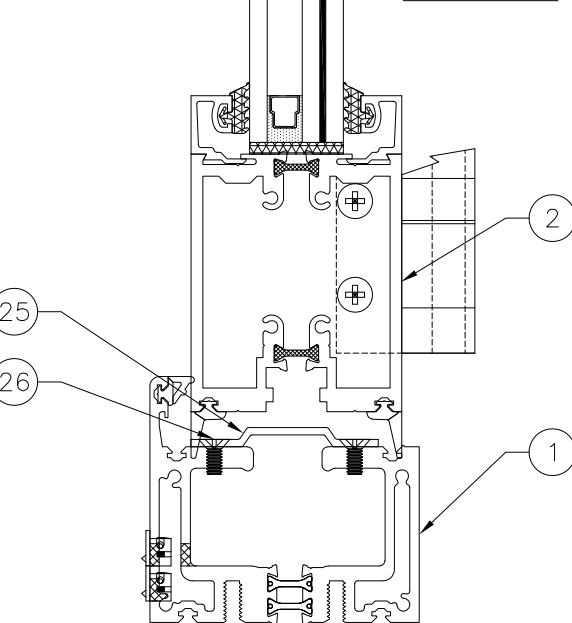
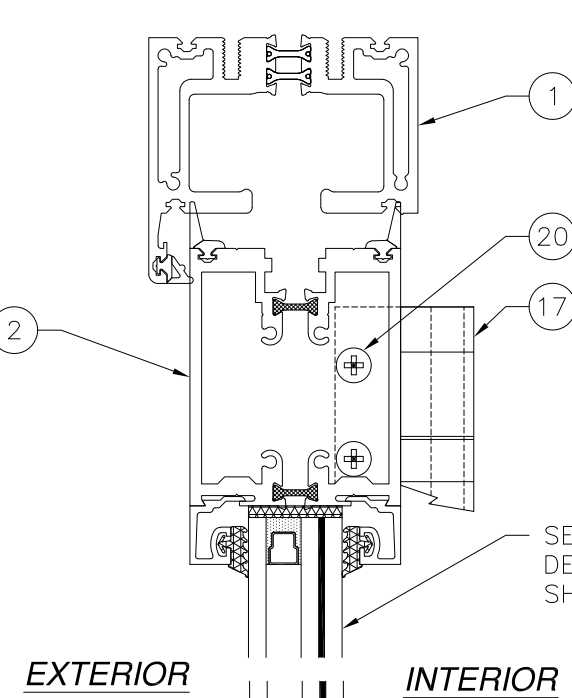
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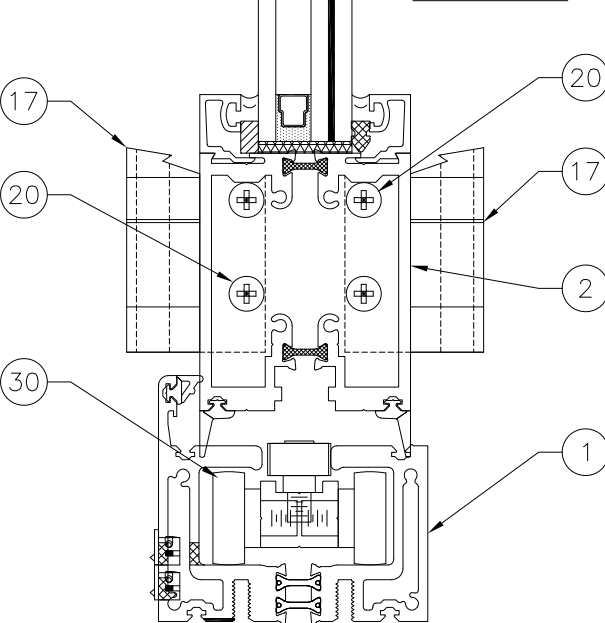
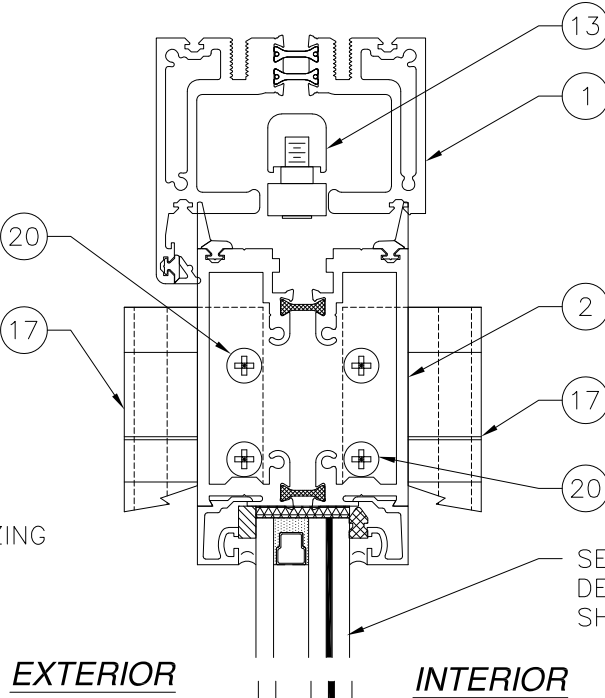


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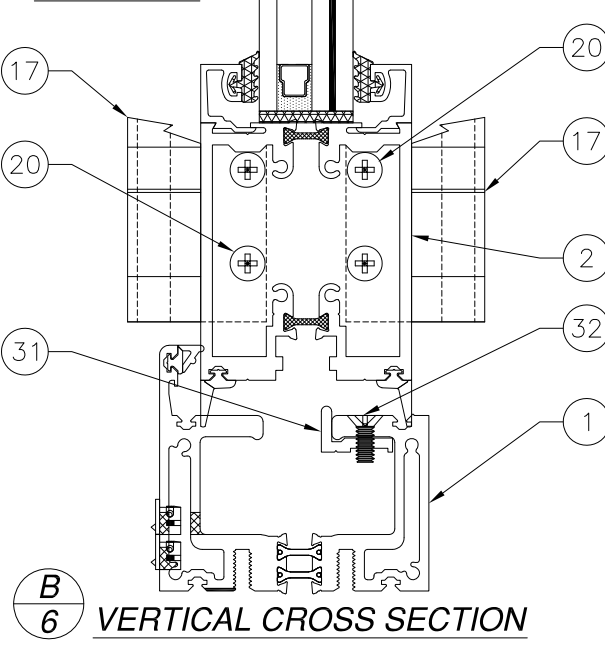
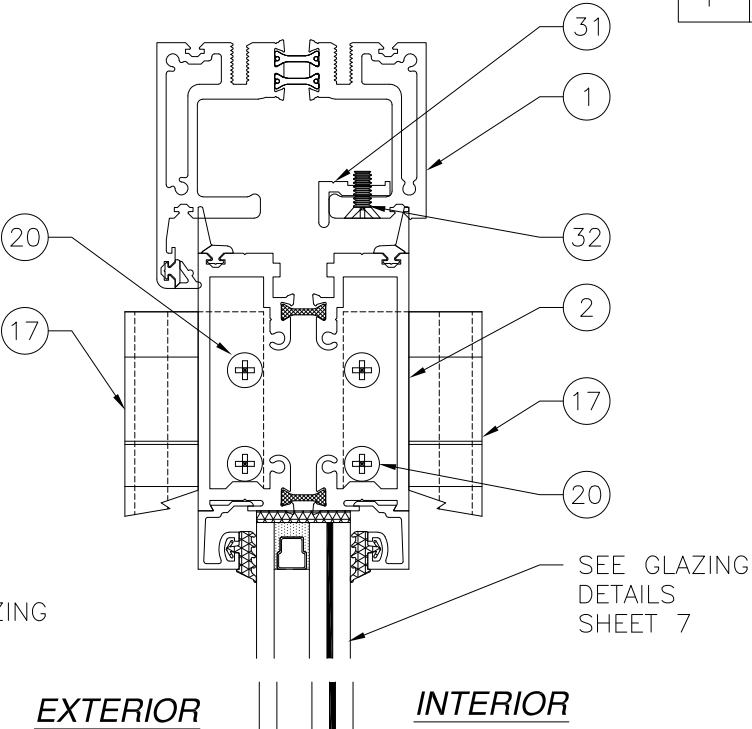
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FOR INSTALLATION DETAILS REFER TO SHEETS 12 -14



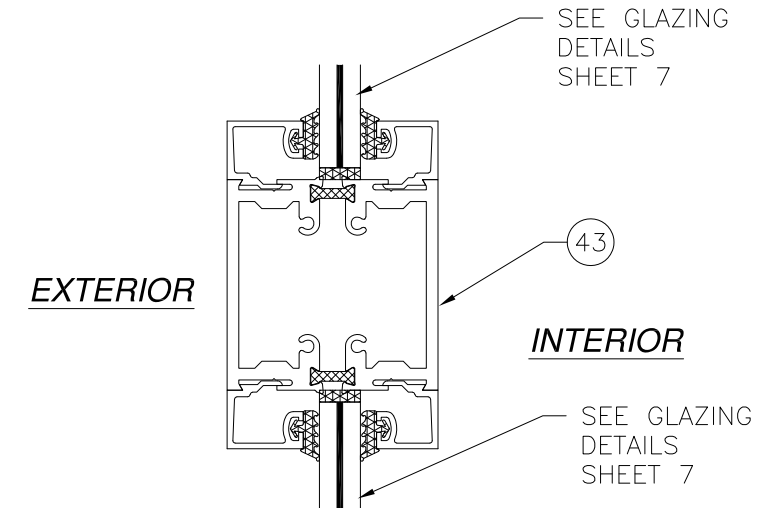
A
6 VERTICAL CROSS SECTION



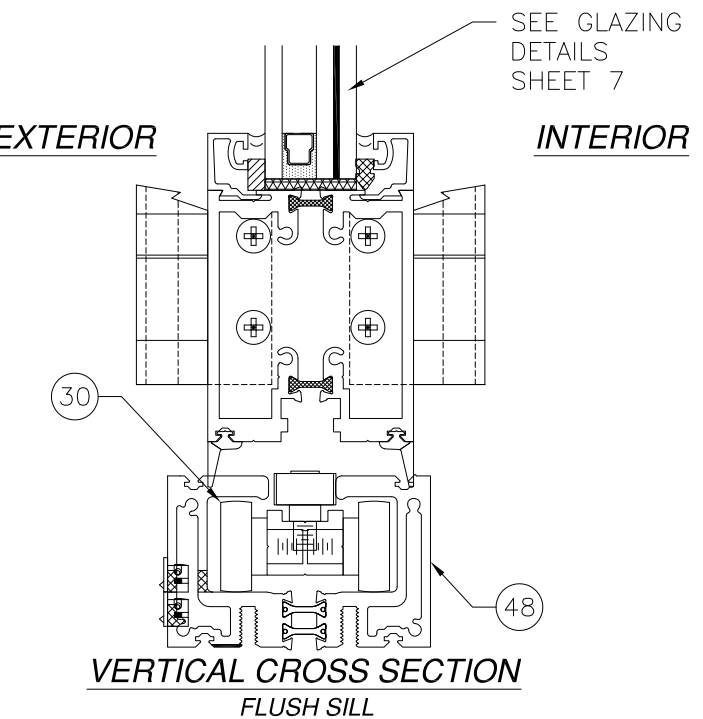
C
6 VERTICAL CROSS SECTION
BOTTOM LOAD



B
6 VERTICAL CROSS SECTION



E
6 VERTICAL CROSS SECTION



H
6 VERTICAL CROSS SECTION
FLUSH SILL

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ALUMINUM REINFORCED - IMPACT - HVHZ
VERTICAL CROSS SECTIONS

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SCALE NTS	DATE 09/19/12	SHEET 6 OF 16

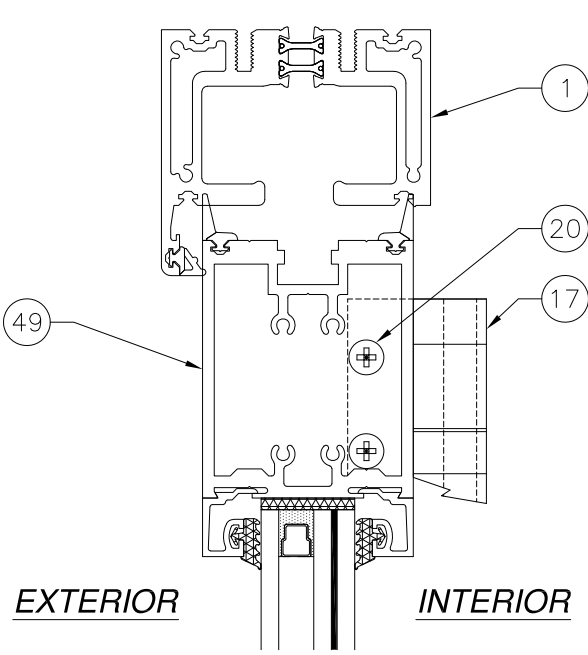
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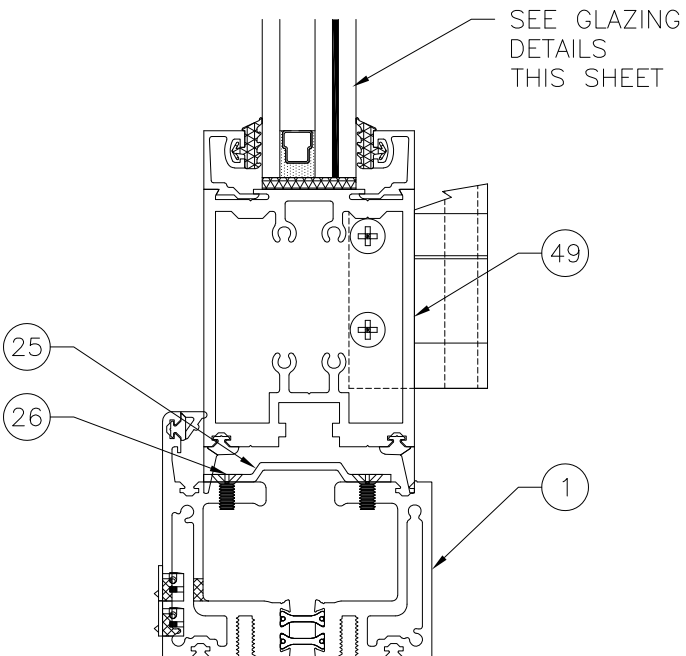
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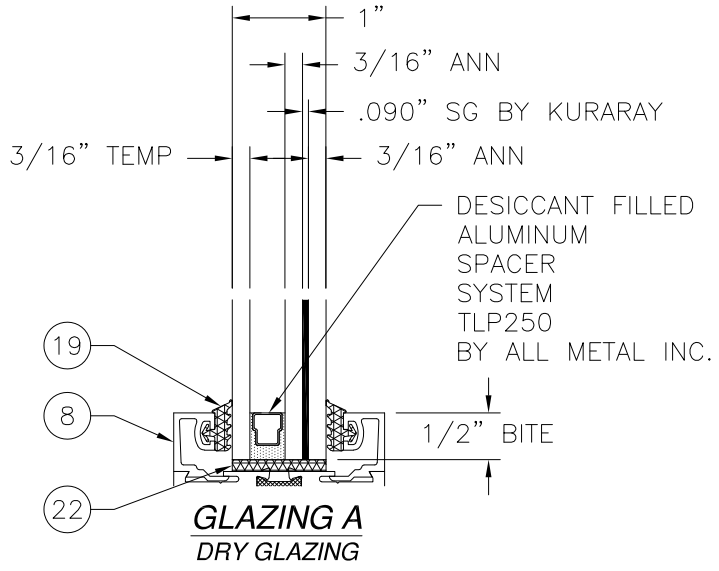
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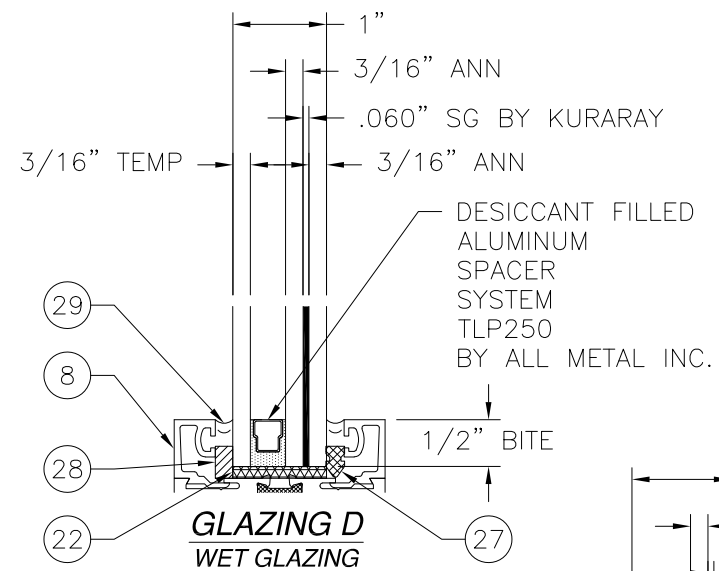
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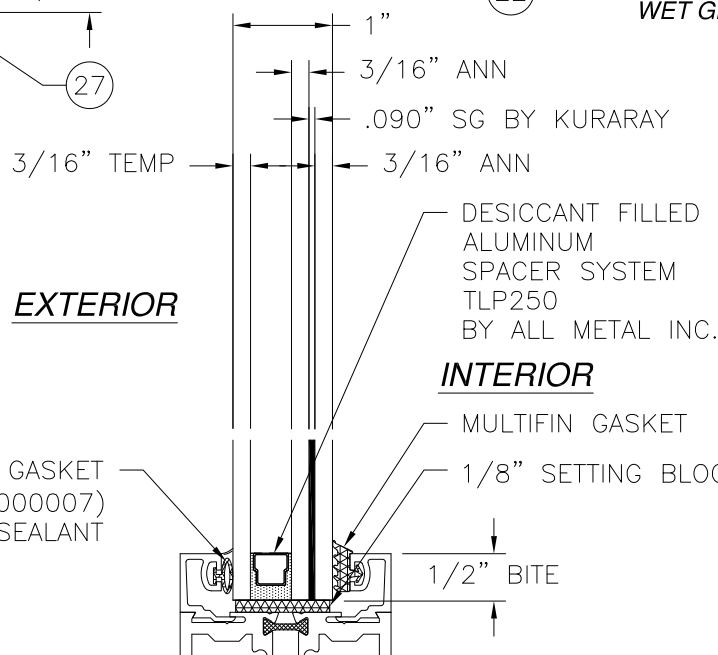
A
7 VERTICAL CROSS SECTION
WITH NON-THERMAL PANELS



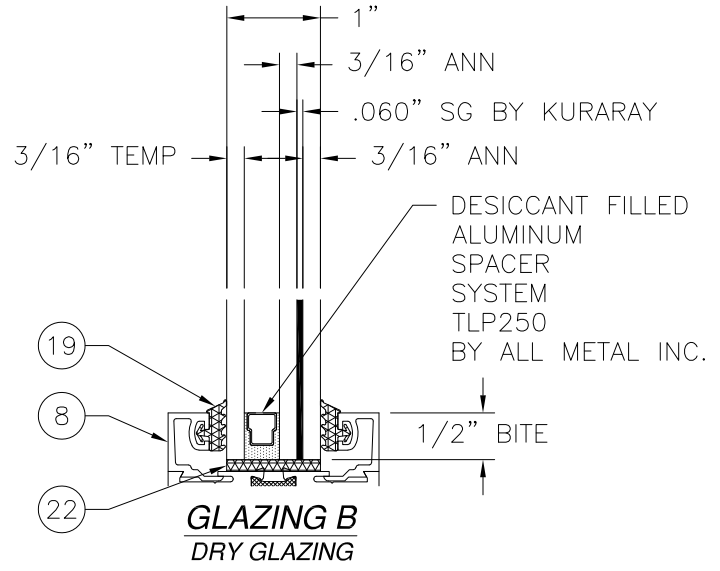
GLAZING A
DRY GLAZING



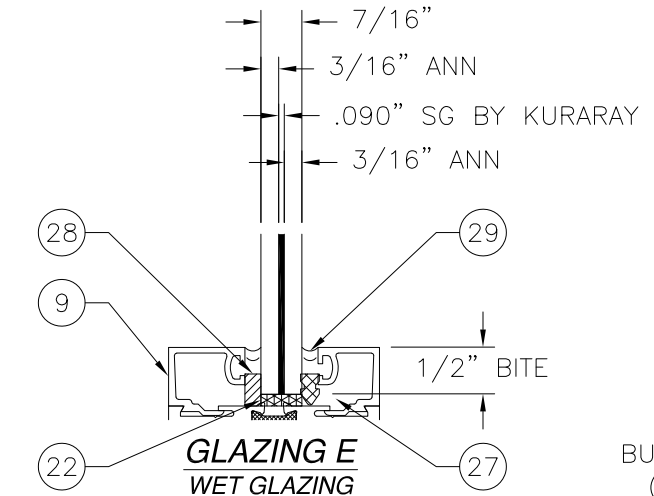
GLAZING D
WET GLAZING



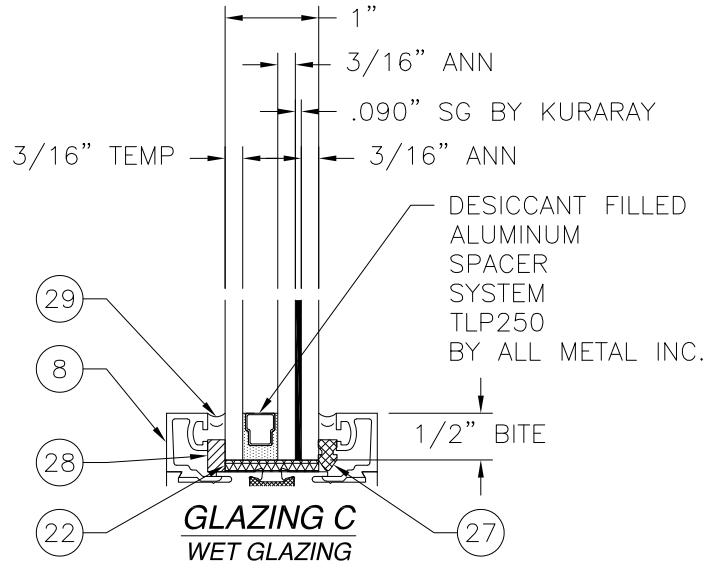
GLAZING G
BULB GASKET & MULTIFIN GLAZING



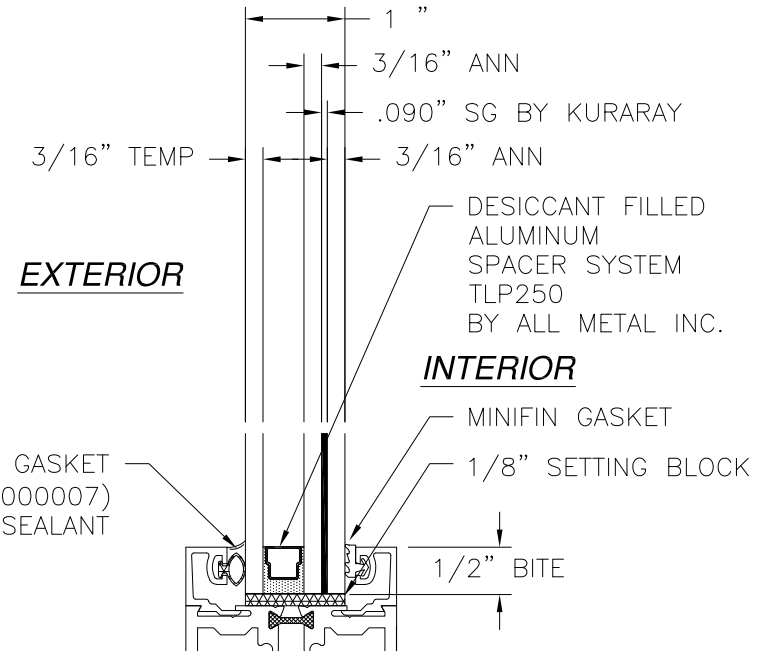
GLAZING B
DRY GLAZING



GLAZING E
WET GLAZING



GLAZING C
WET GLAZING



GLAZING F
BULB GASKET & MINIFIN GLAZING

SIGNED: 12/12/2023

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

SERIES SI3000 FGW 3X8 PANEL INFOLD
ALUMINUM REINFORCED – IMPACT – HVHZ
CROSS SECTIONS & GLAZING DETAILS

DRAWN: V.L.	DWG NO. 08-01792	REV F
SCALE NTS	DATE 09/19/12	SHEET 7 OF 16

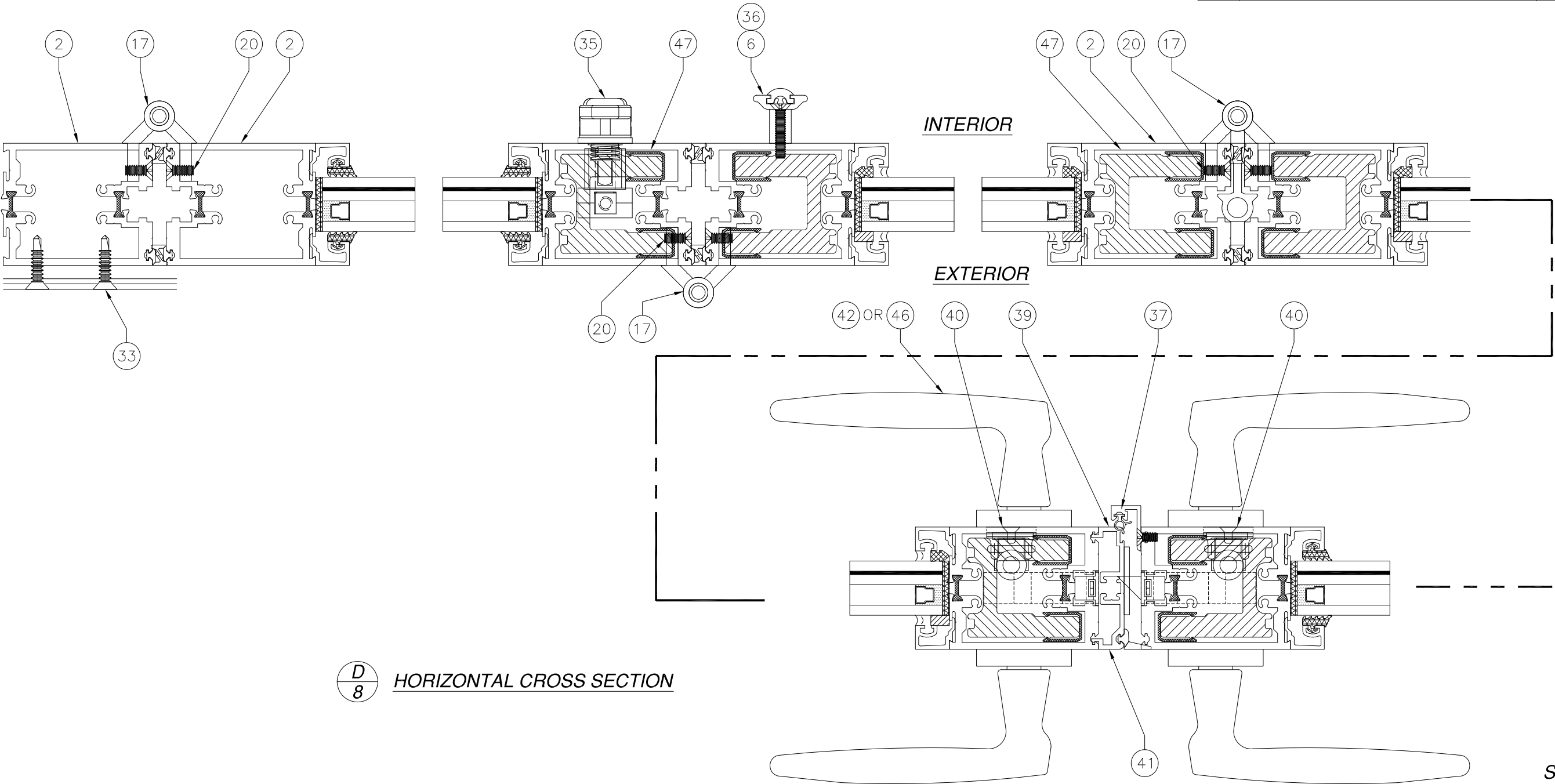
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

LUIS R. LOMAS
LICENSED PROFESSIONAL ENGINEER
No. 62514
STATE OF FLORIDA

Luis R. Lomas P.E.
FL No.: 62514

FOR ILLUSTRATION PURPOSES ONLY
FOR INSTALLATION DETAILS REFER TO SHEETS 12 -14

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/2023	R.L.



D
8 HORIZONTAL CROSS SECTION

CONTINUED
IN SHEET 9

SOLAR INNOVATIONS, INC.

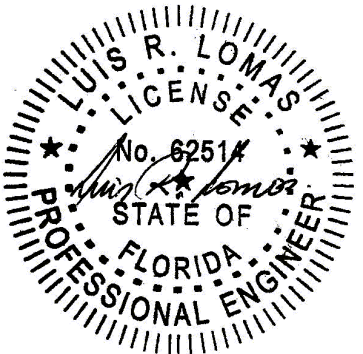
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 FGW 3X8 PANEL INFOLD
ALUMINUM REINFORCED - IMPACT - HVHZ
HORIZONTAL CROSS SECTIONS

DRAWN: V.L.	DWG NO. 08-01792	REV F
SCALE NTS	DATE 09/19/12	SHEET 8 OF 16

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

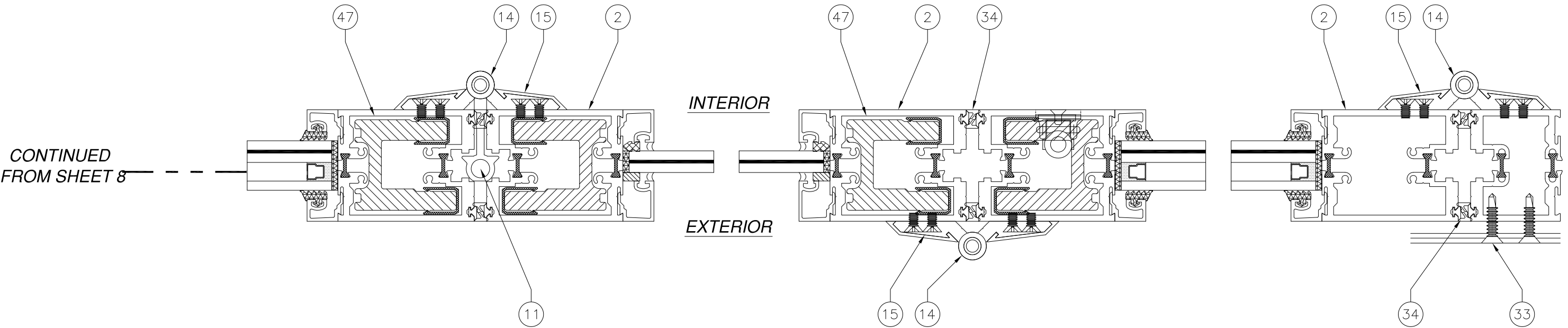
SIGNED: 12/12/2023



Luis R. Lomas P.E.
FL No.: 62514

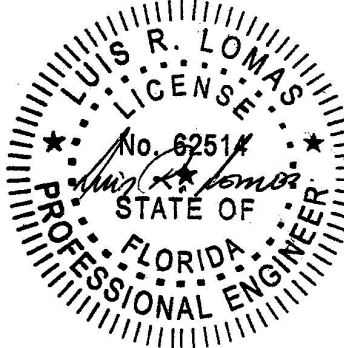
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/2023	R.L.

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FOR INSTALLATION DETAILS REFER TO SHEETS 12 -14



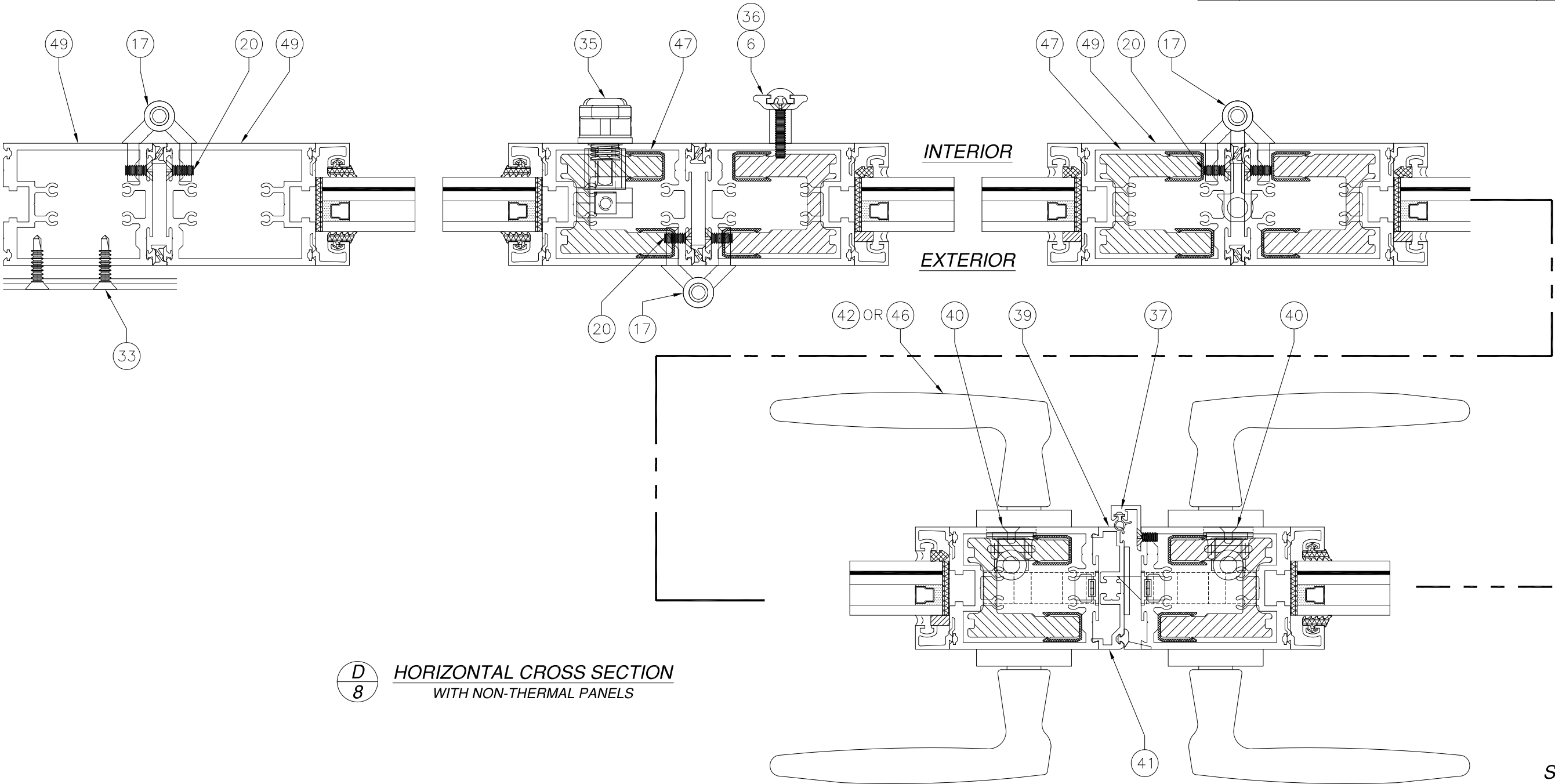
D
9 HORIZONTAL CROSS SECTION

SIGNED: 12/12/2023

SOLAR INNOVATIONS, INC. 31 ROBERTS RD PINE GROVE, PA 17963			
SERIES SI3000 FGW 3X8 PANEL INFOLD ALUMINUM REINFORCED – IMPACT – HVHZ HORIZONTAL CROSS SECTIONS			
DRAWN: V.L.	DWG NO. 08-01792	REV F	
SCALE NTS	DATE 09/19/12	SHEET 9 OF 16	
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com			Luis R. Lomas P.E. FL No.: 62514

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FOR INSTALLATION DETAILS REFER TO SHEETS 12 -14

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/2023	R.L.



D
8 HORIZONTAL CROSS SECTION
WITH NON-THERMAL PANELS

CONTINUED
IN SHEET 11

SIGNED: 12/12/2023

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

SERIES SI3000 FGW 3X8 PANEL INFOLD
ALUMINUM REINFORCED – IMPACT – HVHZ
HORIZONTAL CROSS SECTIONS

DRAWN:
V.L.

DWG NO.
08-01792

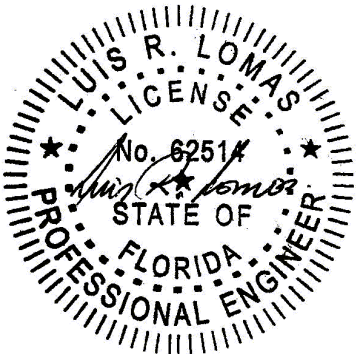
REV
F

SCALE
NTS

DATE
09/19/12

SHEET
10 OF 16

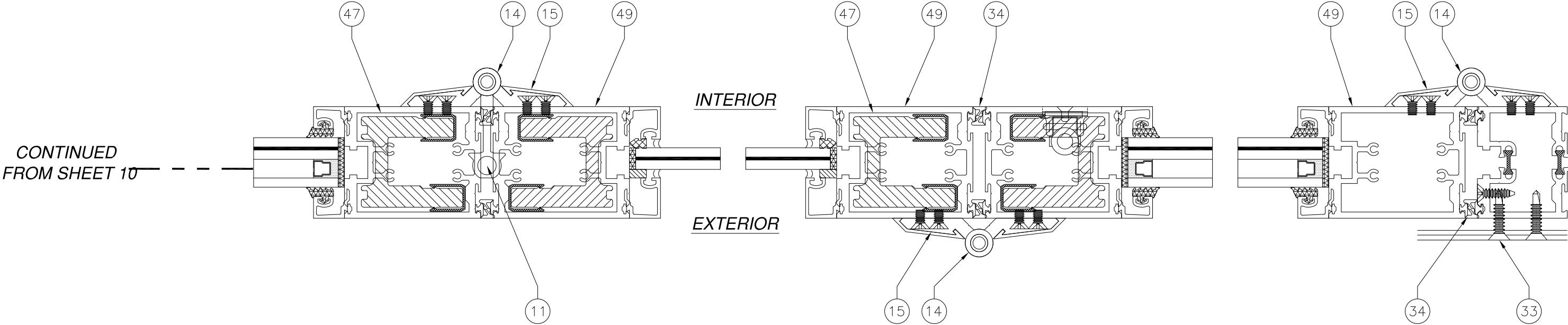
L. ROBERTO LOMAS P.E.
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434-688-0609 rllomas@lrlomaspe.com



Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/2023	R.L.

FOR ILLUSTRATION PURPOSES ONLY
FOR INSTALLATION DETAILS REFER TO SHEETS 12 -14



D
9 HORIZONTAL CROSS SECTION
WITH NON-THERMAL PANELS

SIGNED: 12/12/2023

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

SERIES SI3000 FGW 3X8 PANEL INFOLD
ALUMINUM REINFORCED – IMPACT – HVHZ
HORIZONTAL CROSS SECTIONS

DRAWN:
V.L.

DWG NO.
08-01792

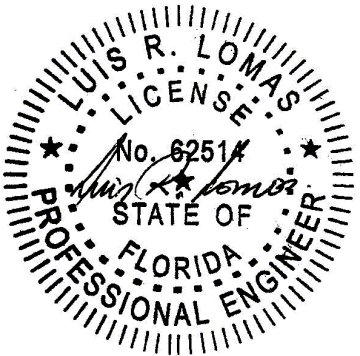
REV
F

SCALE NTS

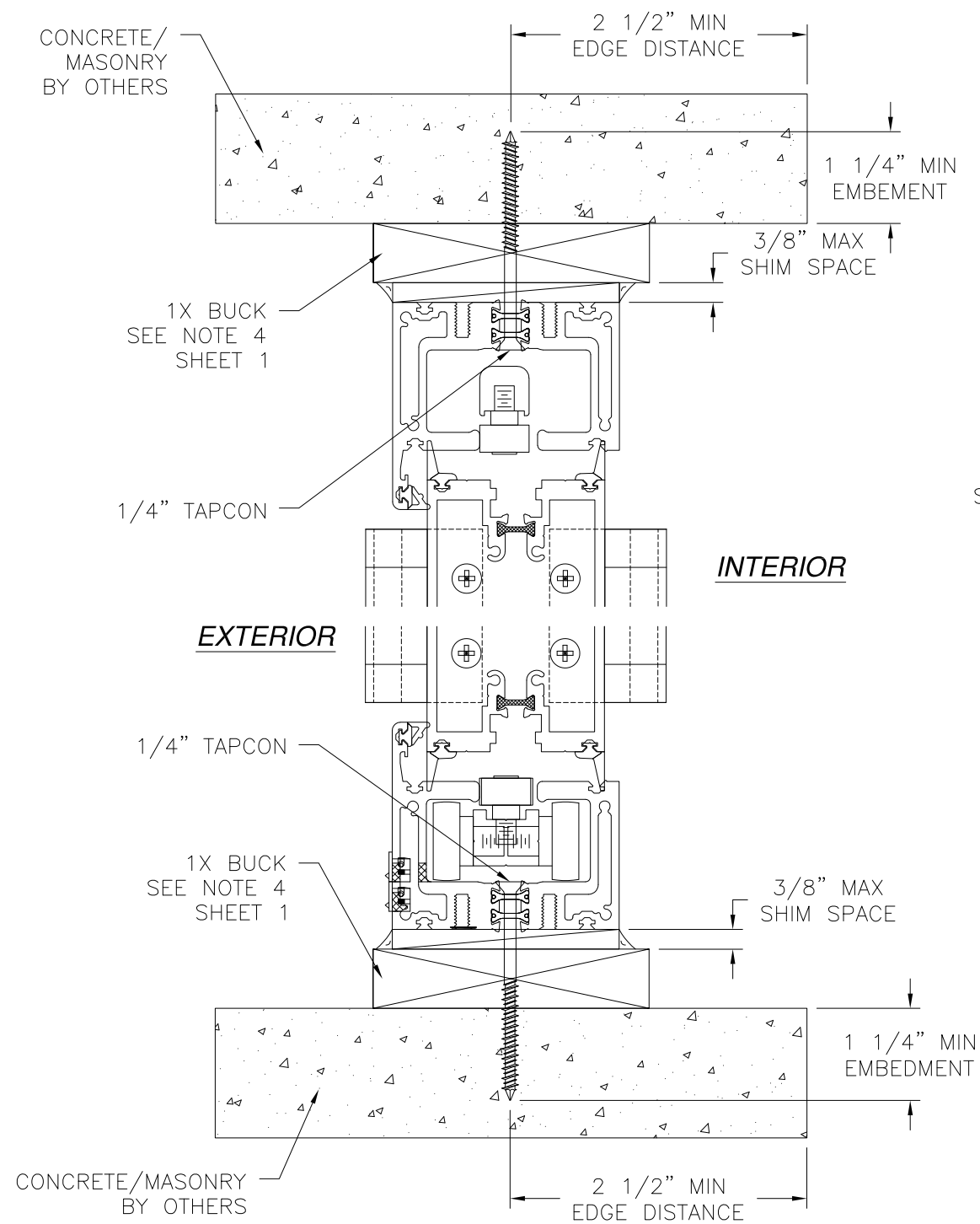
DATE 09/19/12

SHEET 11 OF 16

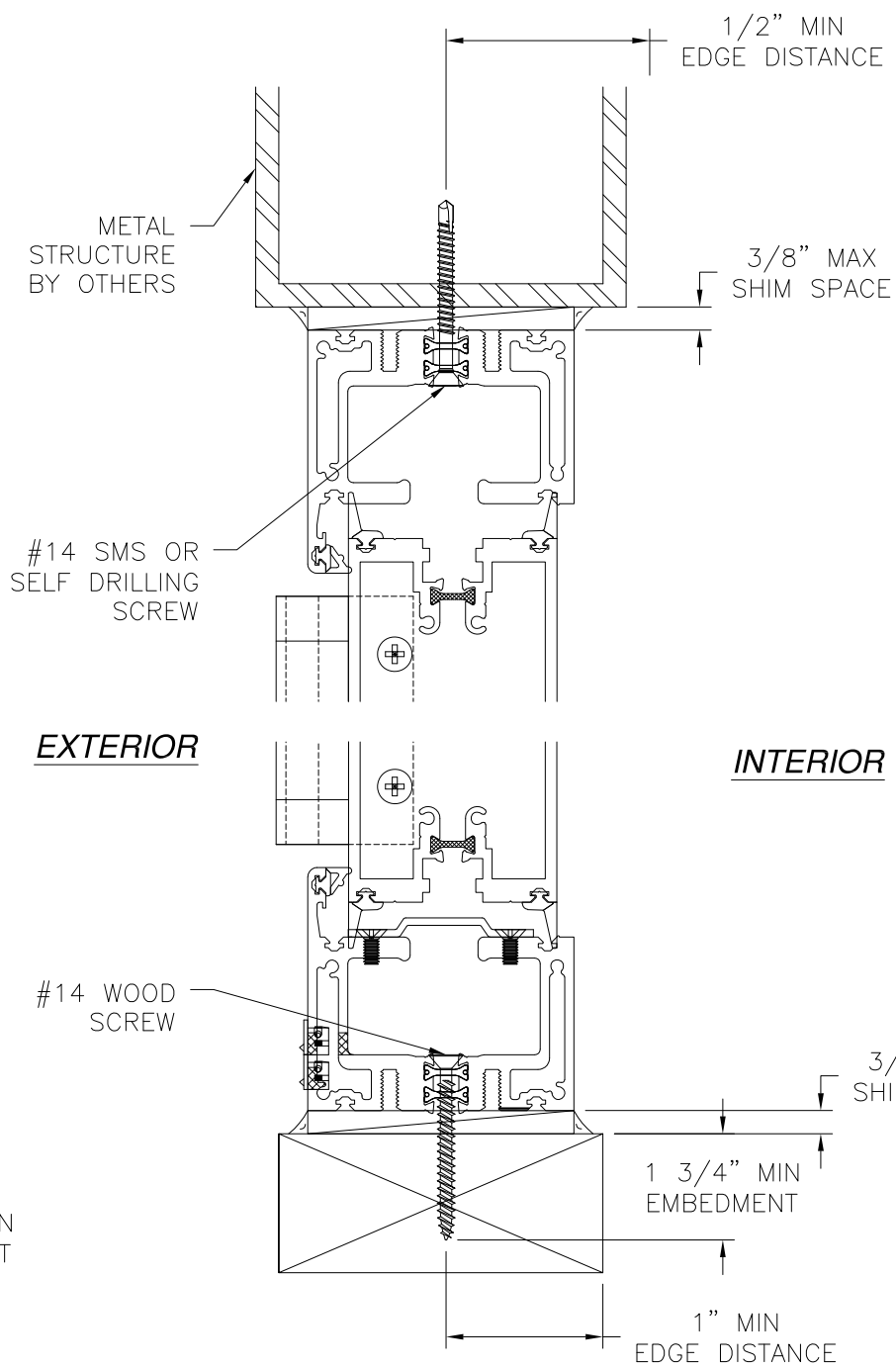
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Luis R. Lomas P.E.
FL No.: 62514



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION
STANDARD SILL, FLUSH SILL SIMILAR



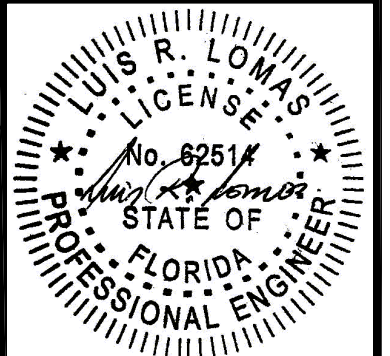
VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK
OR METAL STRUCTURE INSTALLATION
STANDARD SILL, FLUSH SILL SIMILAR

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/2023	R.L.

- 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

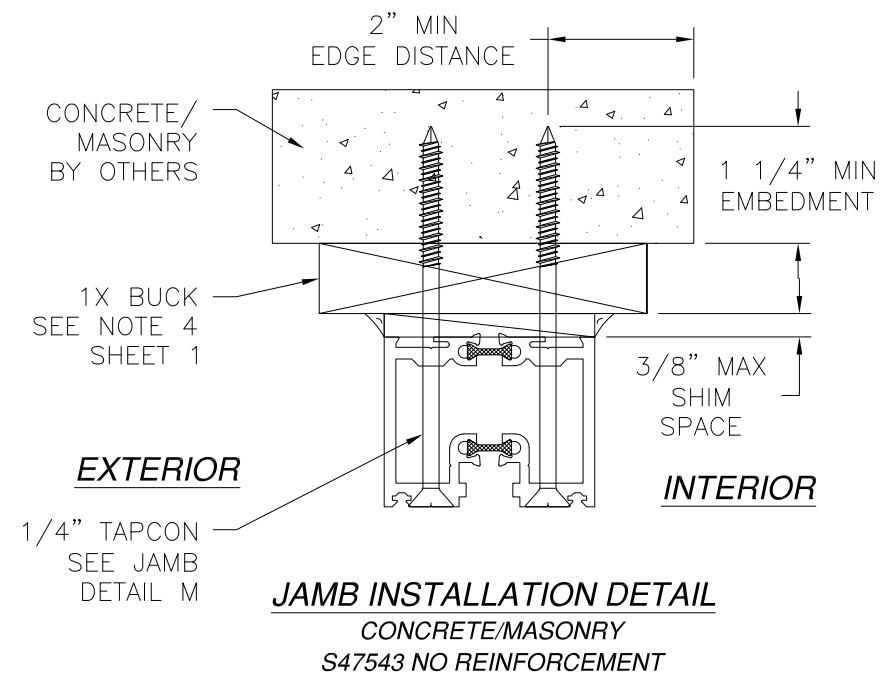
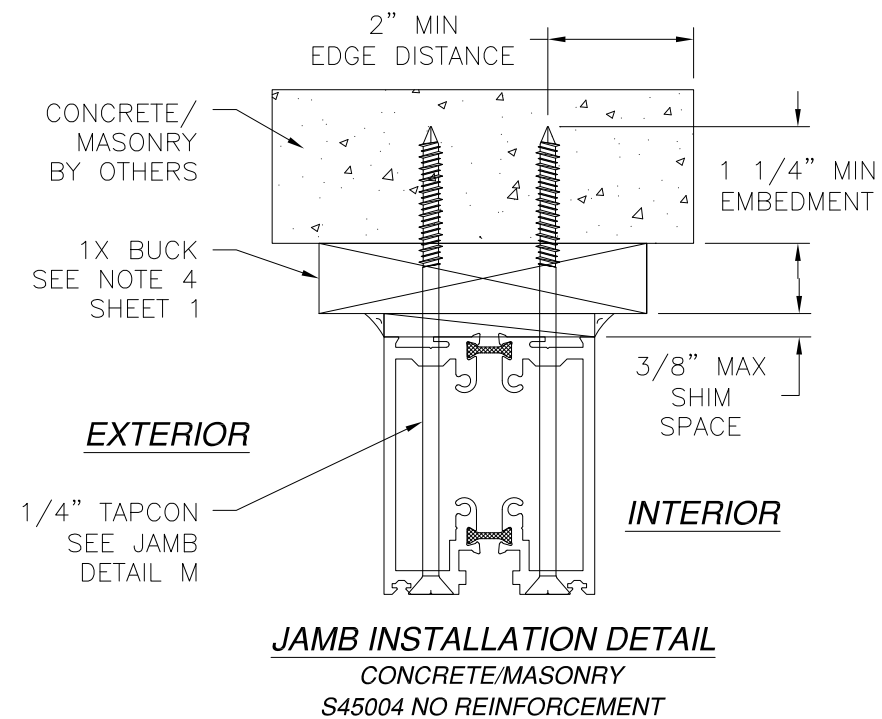
SOLAR INNOVATIONS, INC.		
31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI3000 FGW 3X8 PANEL INFOLD ALUMINUM REINFORCED – IMPACT – HVHZ INSTALLATION DETAILS		
DRAWN: V.L.	DWG NO. 08-01792	REV F
SCALE NTS	DATE 09/19/12	SHEET 12 OF 16
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 12/12/2023



Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/2023	R.L.



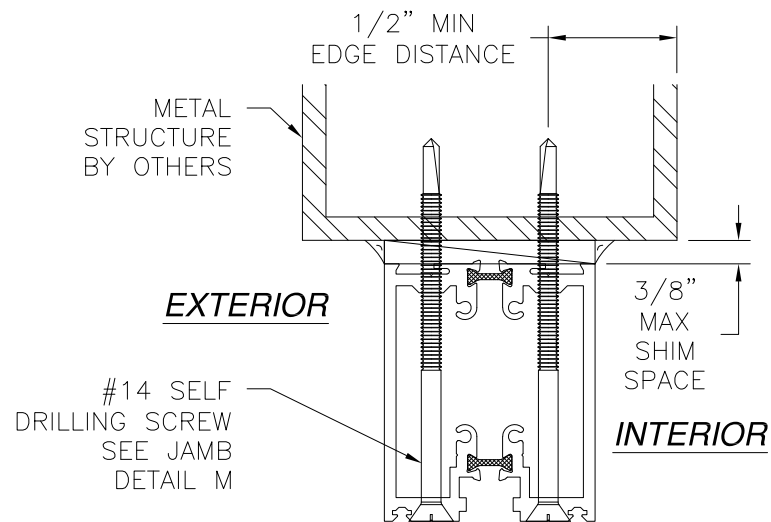
NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SOLAR INNOVATIONS, INC. 31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI3000 FGW 3X8 PANEL INFOLD ALUMINUM REINFORCED – IMPACT – HVHZ INSTALLATION DETAILS		
DRAWN: V.L.	DWG NO. 08-01792	REV F
SCALE NTS	DATE 09/19/12	SHEET 13 OF 16
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

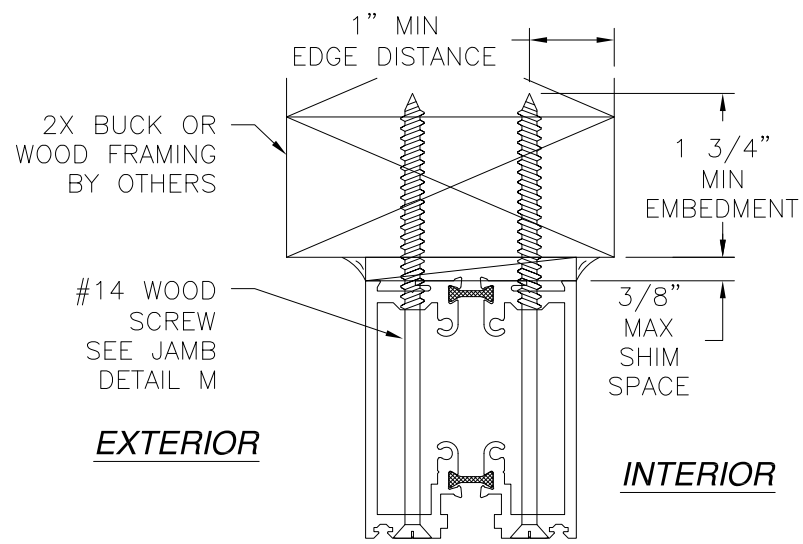
SIGNED: 12/12/2023

Luis R. Lomas P.E.
FL No.: 62514

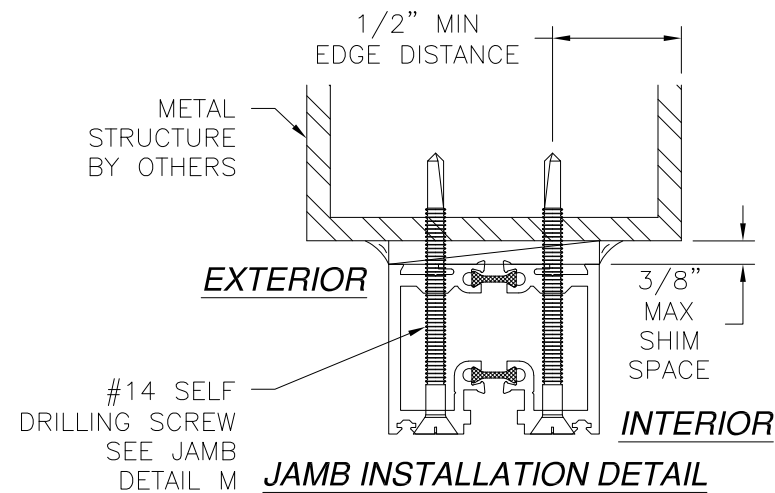
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/2023	R.L.



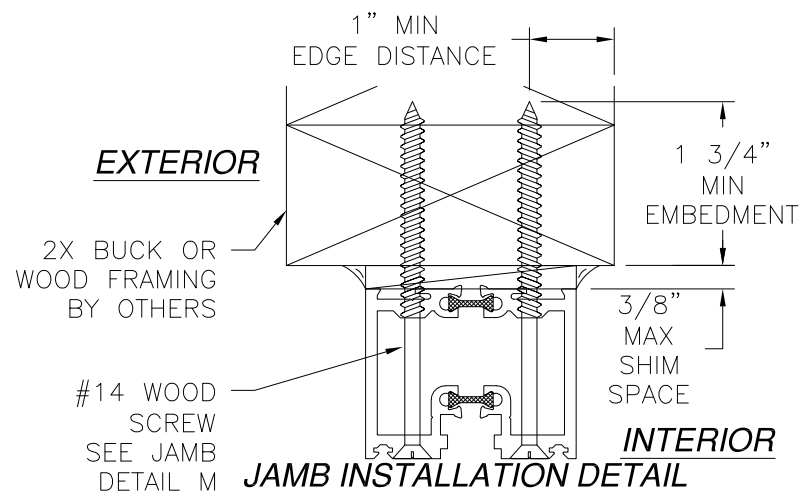
JAMB INSTALLATION DETAIL
METAL STRUCTURE
S45004 NO REINFORCEMENT



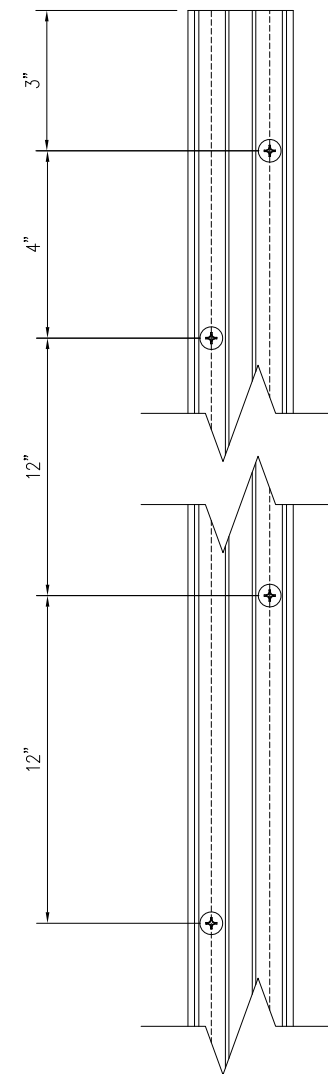
JAMB INSTALLATION DETAIL
2X BUCK OR WOOD FRAMING
S45004 NO REINFORCEMENT



JAMB INSTALLATION DETAIL
METAL STRUCTURE
S47543 NO REINFORCEMENT



JAMB INSTALLATION DETAIL
2X BUCK OR WOOD FRAMING
S47543 NO REINFORCEMENT

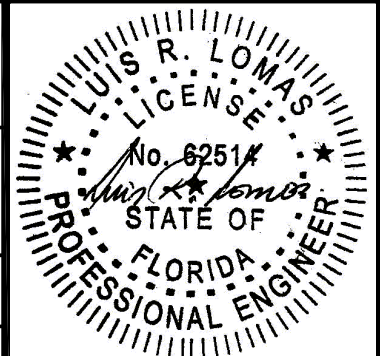


JAMB INSTALLATION DETAIL M
JAMB WITHOUT REINFORCEMENT

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

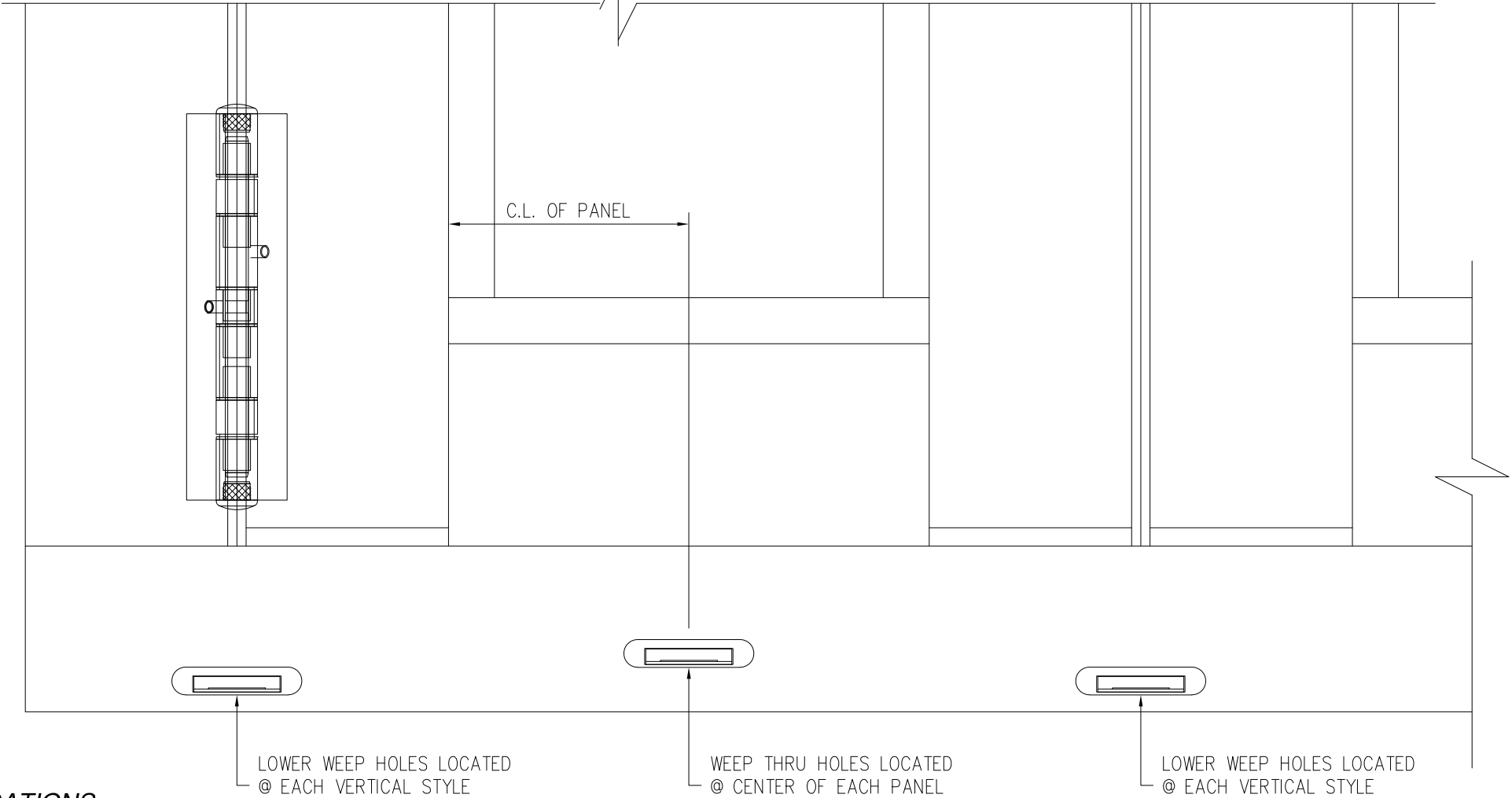
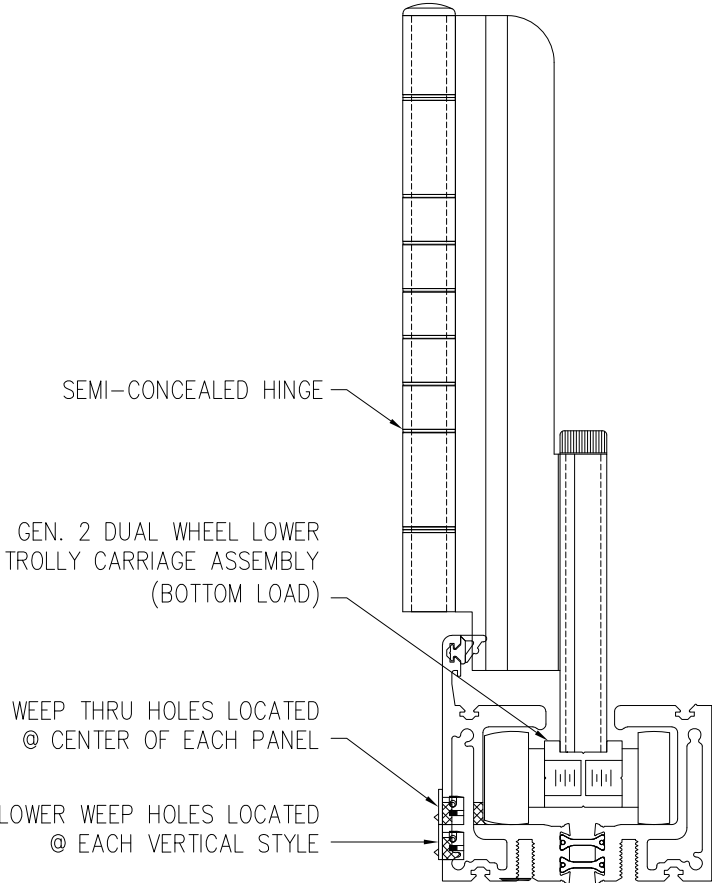
SIGNED: 12/12/2023

SOLAR INNOVATIONS, INC. 31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI3000 FGW 3X8 PANEL INFOLD ALUMINUM REINFORCED – IMPACT – HVHZ INSTALLATION DETAILS		
DRAWN: V.L.	DWG NO. 08-01792	REV F
SCALE NTS	DATE 09/19/12	SHEET 14 OF 16
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

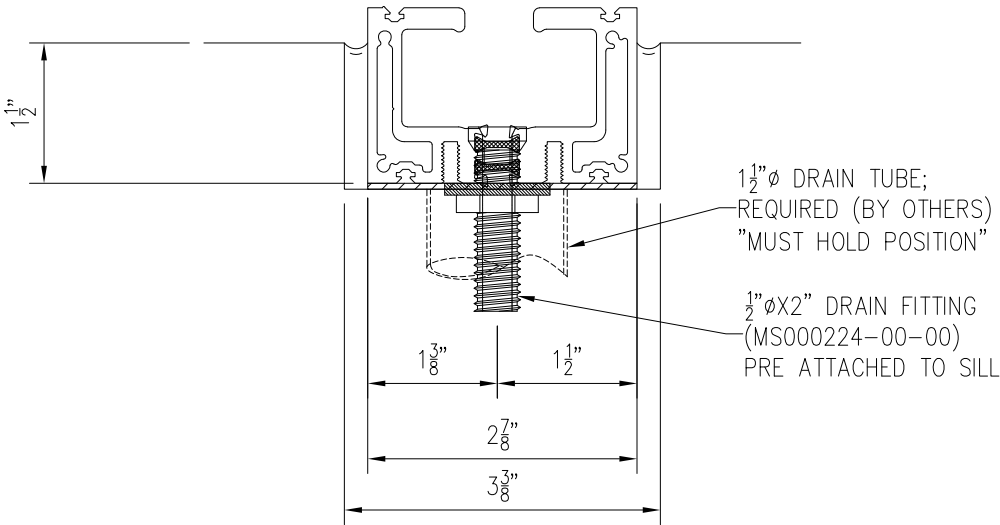


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/2023	R.L.



WEEP LOCATIONS



DRAIN PIPE DETAIL

SOLAR INNOVATIONS, INC.

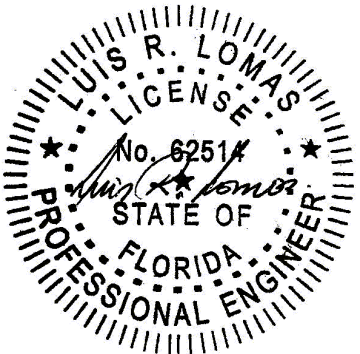
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 FGW 3X8 PANEL INFOLD
ALUMINUM REINFORCED – IMPACT – HVHZ
WEEP LOCATIONS

DRAWN: V.L.	DWG NO. 08-01792	REV F
SCALE NTS	DATE 09/19/12	SHEET 15 OF 16

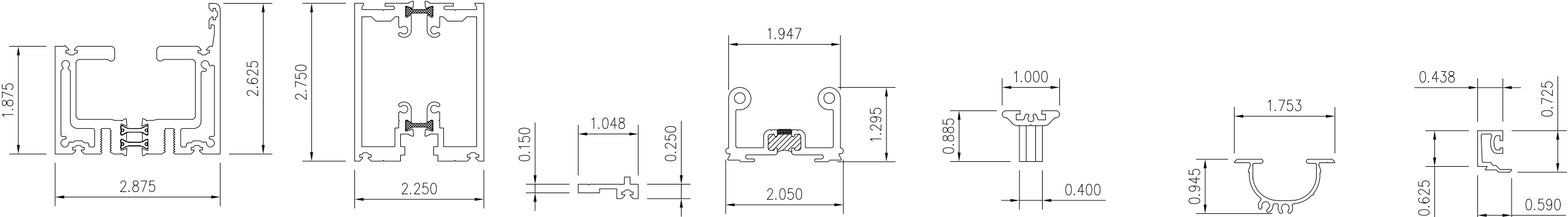
L. ROBERTO LOMAS P.E.
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434-688-0609 rllomas@lrlomaspe.com

SIGNED: 12/12/2023



Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/2023	R.L.



1

DUAL WHEEL
HEAD / SILL

2

REGULAR THERM/
FRAME

3

FRAME
CAP

4

FRAME
LUG

6

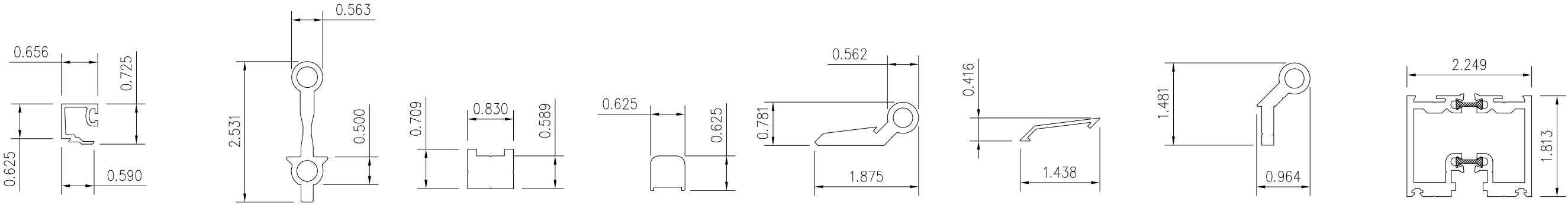
LOW-PROFILE
HANDLE

7

RECESSED / FLUSH
HANDLE

8

1" GLASS
STOP



9

9/16" GLASS
STOP

11

HEAVY HINGE
EXTENSION

12

TROLLEY
BODY

13

IDLER
BODY

14

5 1/4"
HINGE

15

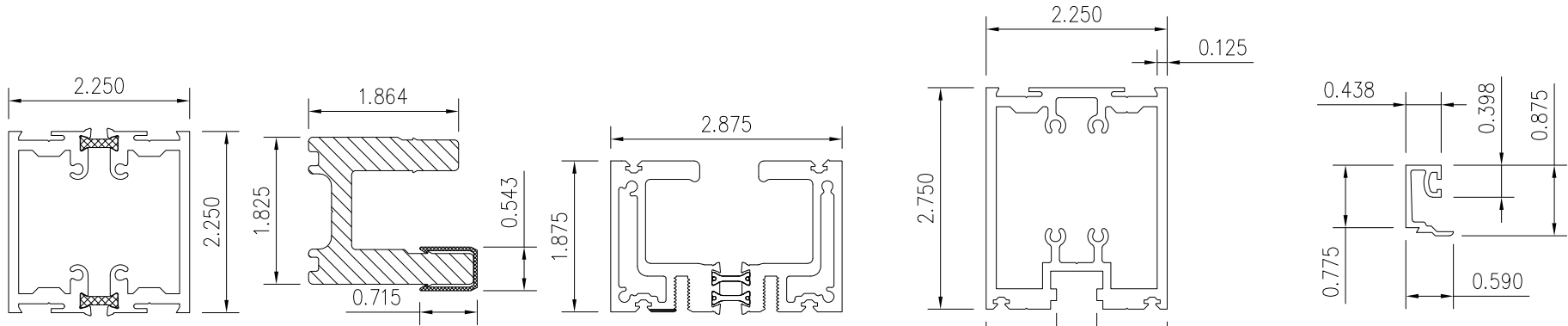
5 1/4"
HINGE COVER

17

5 1/4" SEMI-
CONCEALED HINGE

18

FRAME
NARROW



43

MULLION
FRAME

47

REGULAR
RAIL INSERT

48

FLUSH SILL

49

NON-THERMAL FRAME

1/2" GLASS
STOP

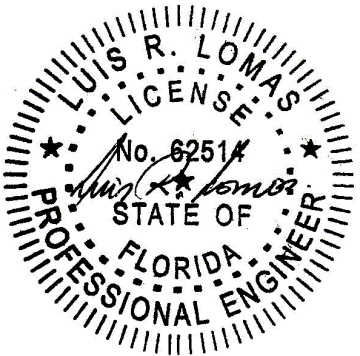
SOLAR INNOVATIONS, INC.
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 FGW 3X8 PANEL INFOLD
ALUMINUM REINFORCED – IMPACT – HVHZ
COMPONENTS

DRAWN: V.L.	DWG NO. 08-01792	REV F
SCALE NTS	DATE 09/19/12	SHEET 16 OF 16

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 12/12/2023



Luis R. Lomas P.E.
FL No.: 62514