

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
E	REVISED DETAILS	04/17/26	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 8 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

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2	ELEVATION AND DESIGN PRESSURE CHARTS
3	ANCHORING LAYOUT
4 – 7	CROSS SECTIONS
8	GLAZING DETAILS
9 – 11	INSTALLATION DETAILS
12	WEEP DETAILS
13	COMPONENTS

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

SERIES SI3000 IMPACT FGW 3X8 PANEL
RADIUS WALL
NOTES

DRAWN:
V.L.

DWG NO.
08-01877

REV
E

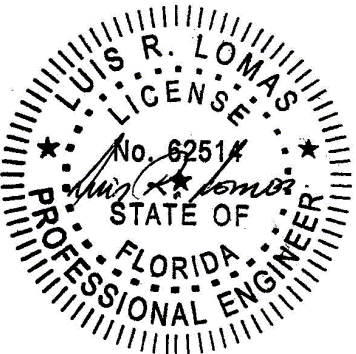
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DATE 12/20/12

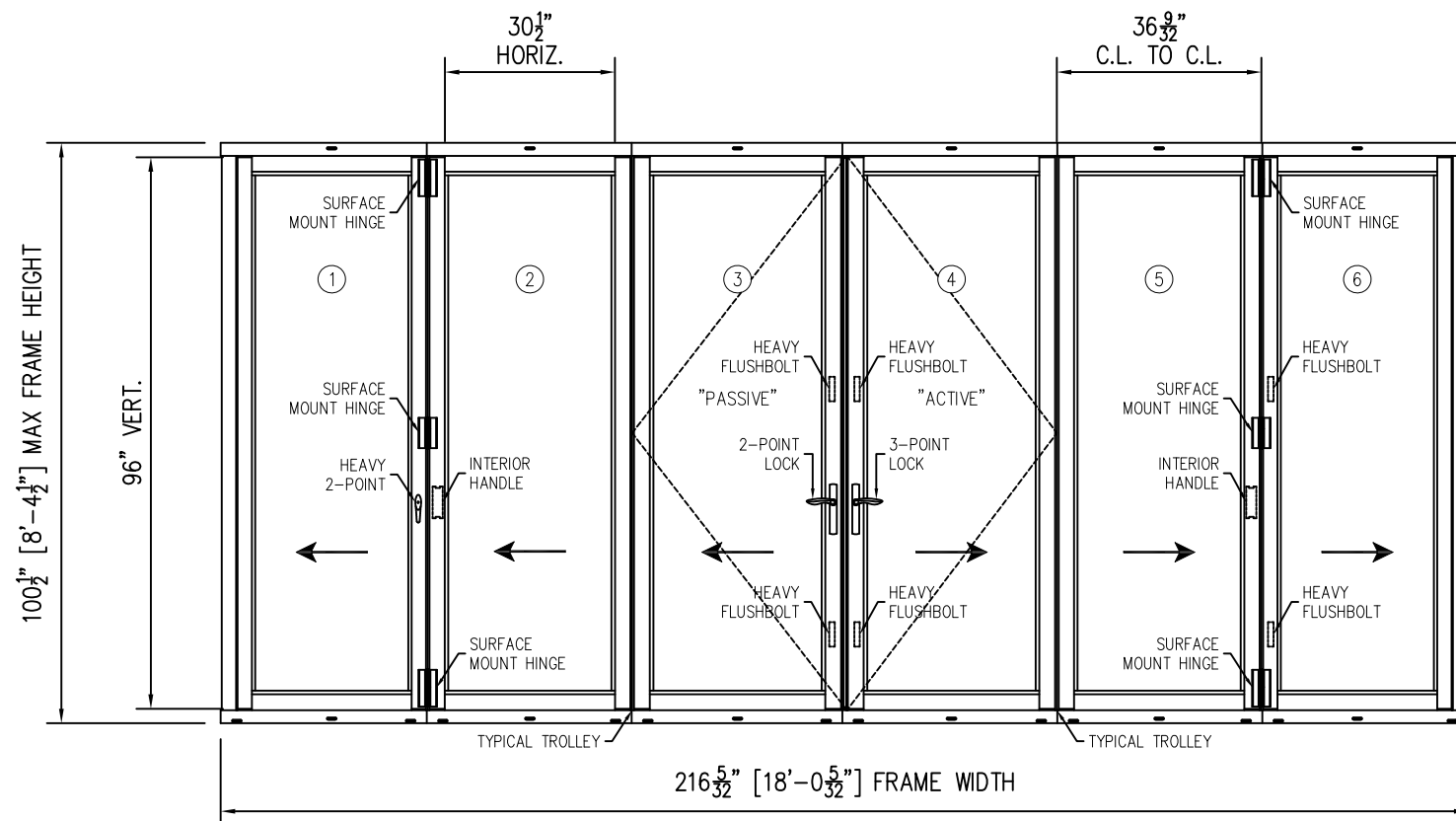
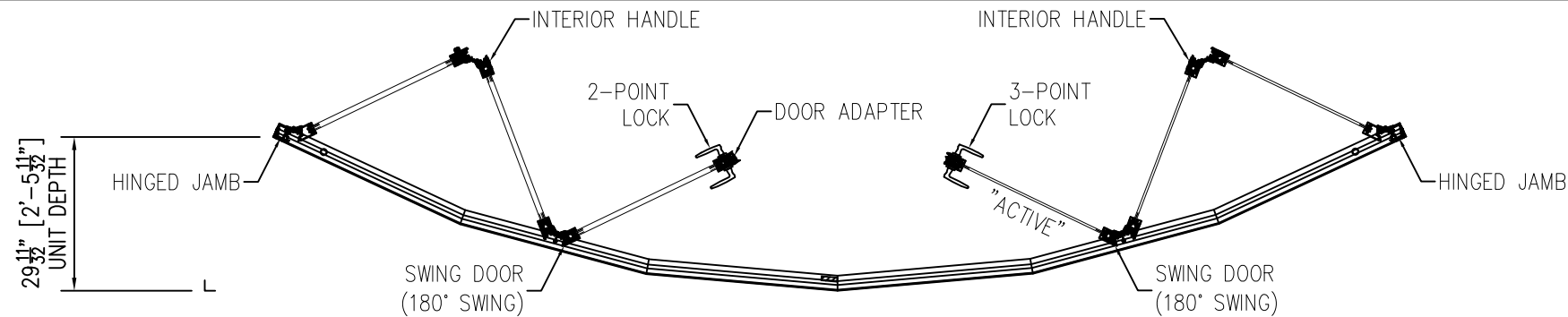
SHEET 1 OF 13

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

SIGNED: 04/17/2026



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



SERIES SI3000 IMPACT FGW 3X8 PANEL RADIUS WALL

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.

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

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
WHERE WATER RESISTANCE IS REQUIRED, SEE CHART #1

DESIGN PRESSURE RATING	IMPACT RATING
±70.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
WHERE WATER RESISTANCE IS NOT REQUIRED, SEE CHART #2

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

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Chart # 1
Maximum Design pressure (psf)

Panel Height (in)	Single Panel Width (in)									
	24.0		30.0		36.28		42.0000		44.000	
	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	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	-	-	-	-	-	-	-	-

Chart # 2
Maximum Design pressure (psf)

Panel Height (in)	Single Panel Width (in)									
	24.0		30.0		36.28		42.0000		44.000	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
78.0	80.0	80.0	80.0	80.0	80.0	80.0	74.4	74.4	71.0	71.0
84.0	80.0	80.0	80.0	80.0	80.0	80.0	-	-	-	-
90.0	80.0	80.0	80.0	80.0	74.7	74.7	-	-	-	-
96.0	80.0	80.0	80.0	80.0	70.0	70.0	-	-	-	-
102.0	80.0	80.0	69.0	69.0	-	-	-	-	-	-
108.0	71.5	71.5	57.9	57.9	-	-	-	-	-	-
114.0	60.7	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	-	-	-	-	-	-	-	-

SIGNED: 04/17/2026

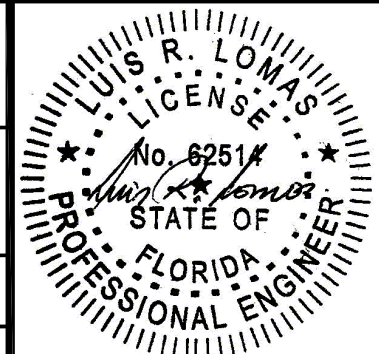
SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 IMPACT FGW 3X8 PANEL
RADIUS WALL
ELEVATION AND DESIGN PRESSURE CHARTS

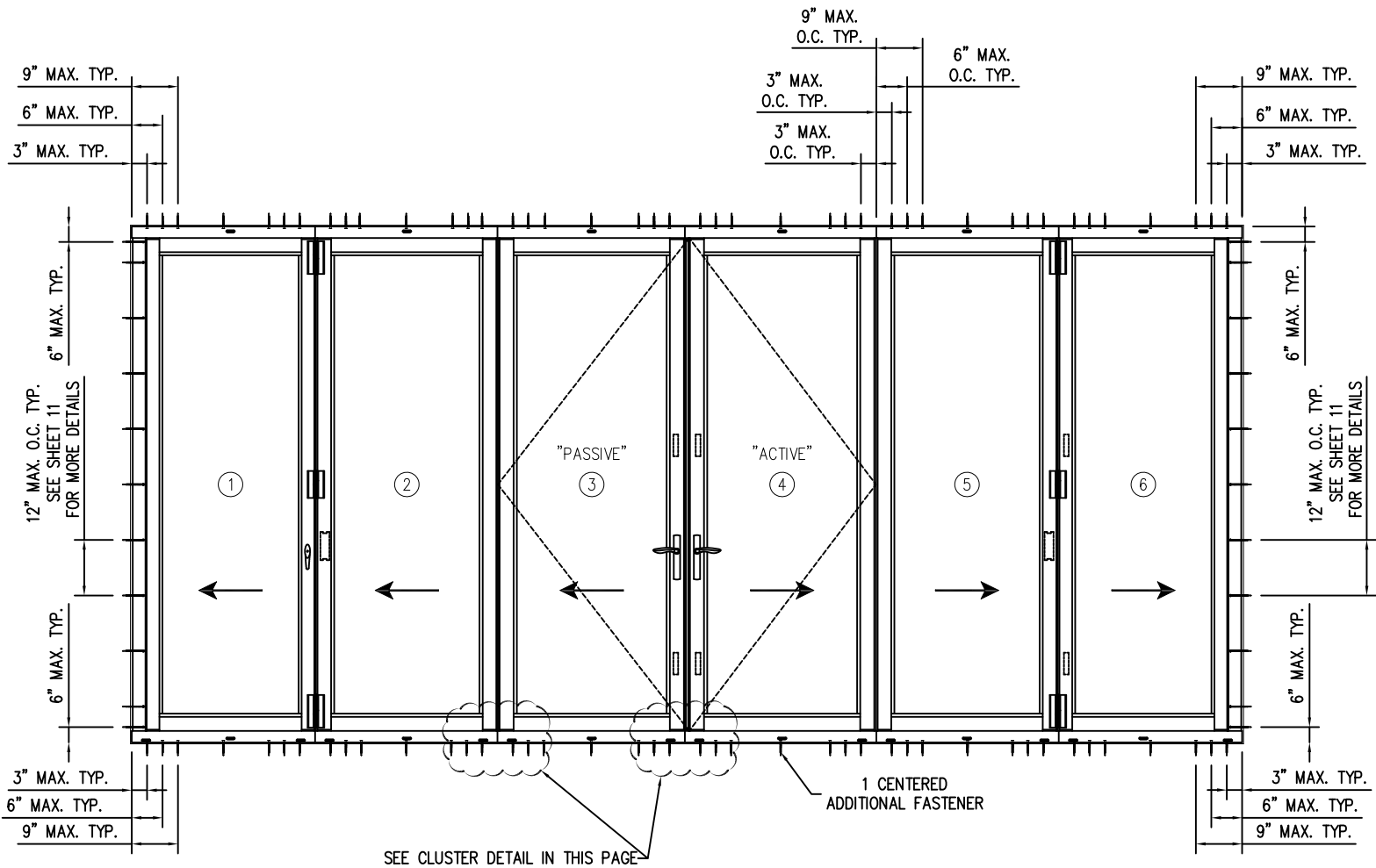
DRAWN: V.L.	DWG NO. 08-01877	REV E
SCALE NTS	DATE 12/20/12	SHEET 2 OF 13

L. ROBERTO LOMAS P.E.
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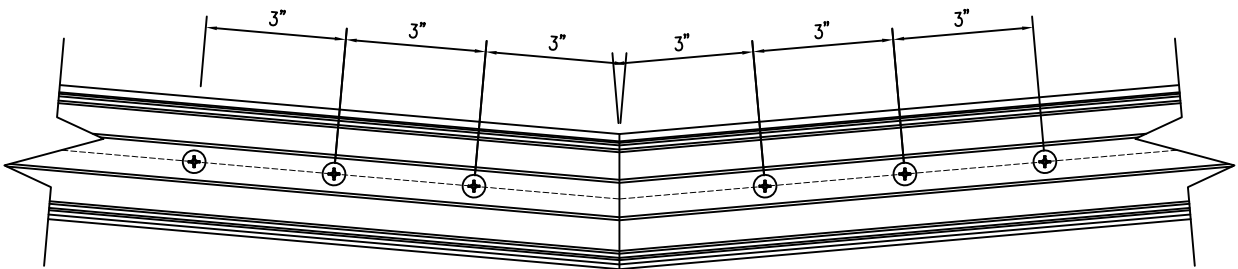


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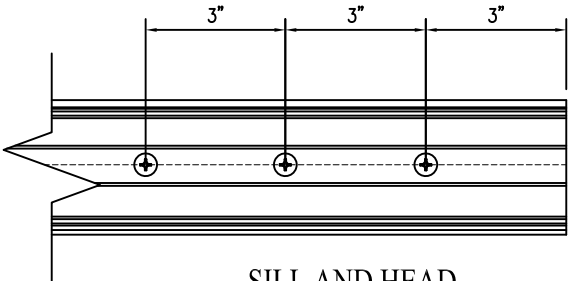
REVISIONS			
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ANCHOR LAYOUT
APPLIES TO ALL CONFIGURATIONS



**SILL AND HEAD
CLUSTER DETAIL**



**SILL AND HEAD
END DETAIL**

SIGNED: 04/17/2026

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

SERIES SI3000 IMPACT FGW 3X8 PANEL
RADIUS WALL
ANCHORING LAYOUT

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DWG NO.
08-01877

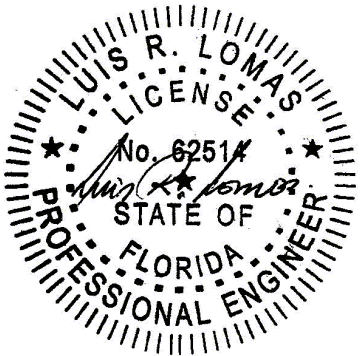
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12/20/12

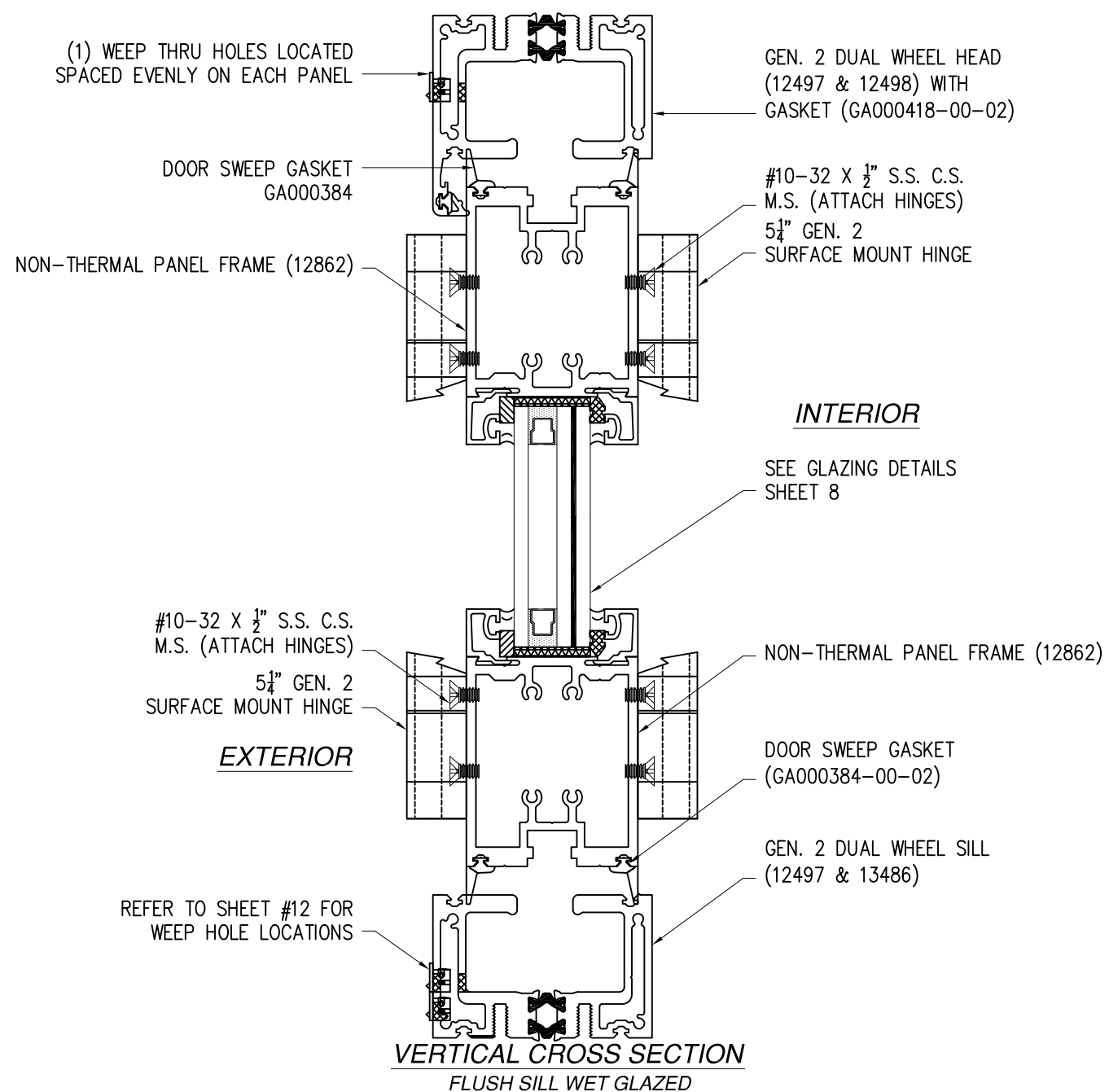
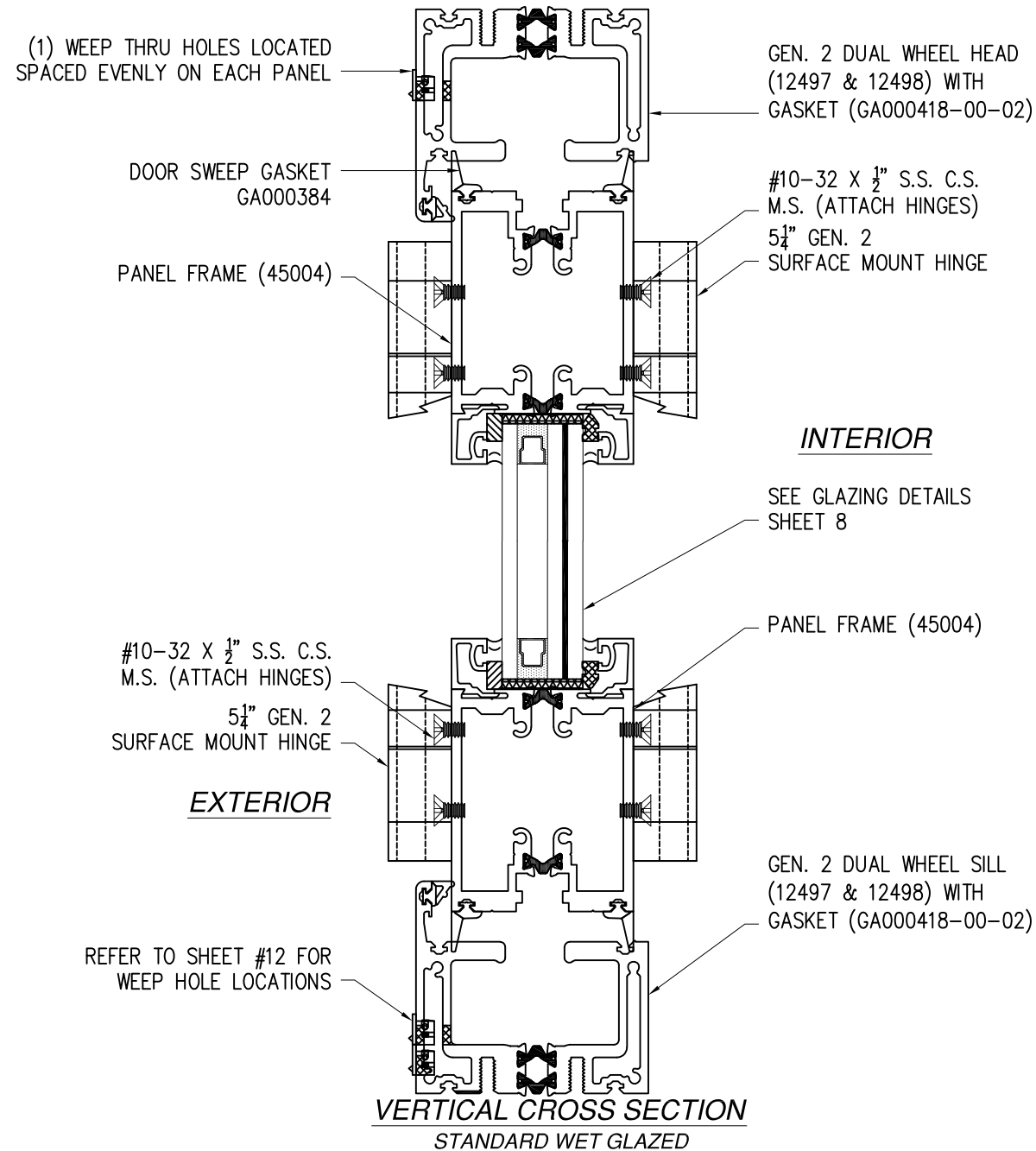
SHEET
3 OF 13

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SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 IMPACT FGW 3X8 PANEL
RADIUS WALL
VERTICAL CROSS SECTIONS

DRAWN: V.L.

DWG NO. 08-01877

REV E

SCALE NTS

DATE 12/20/12

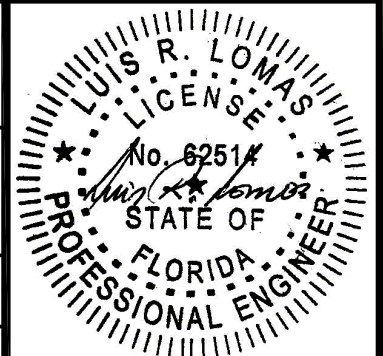
SHEET 4 OF 13

L. ROBERTO LOMAS P.E.

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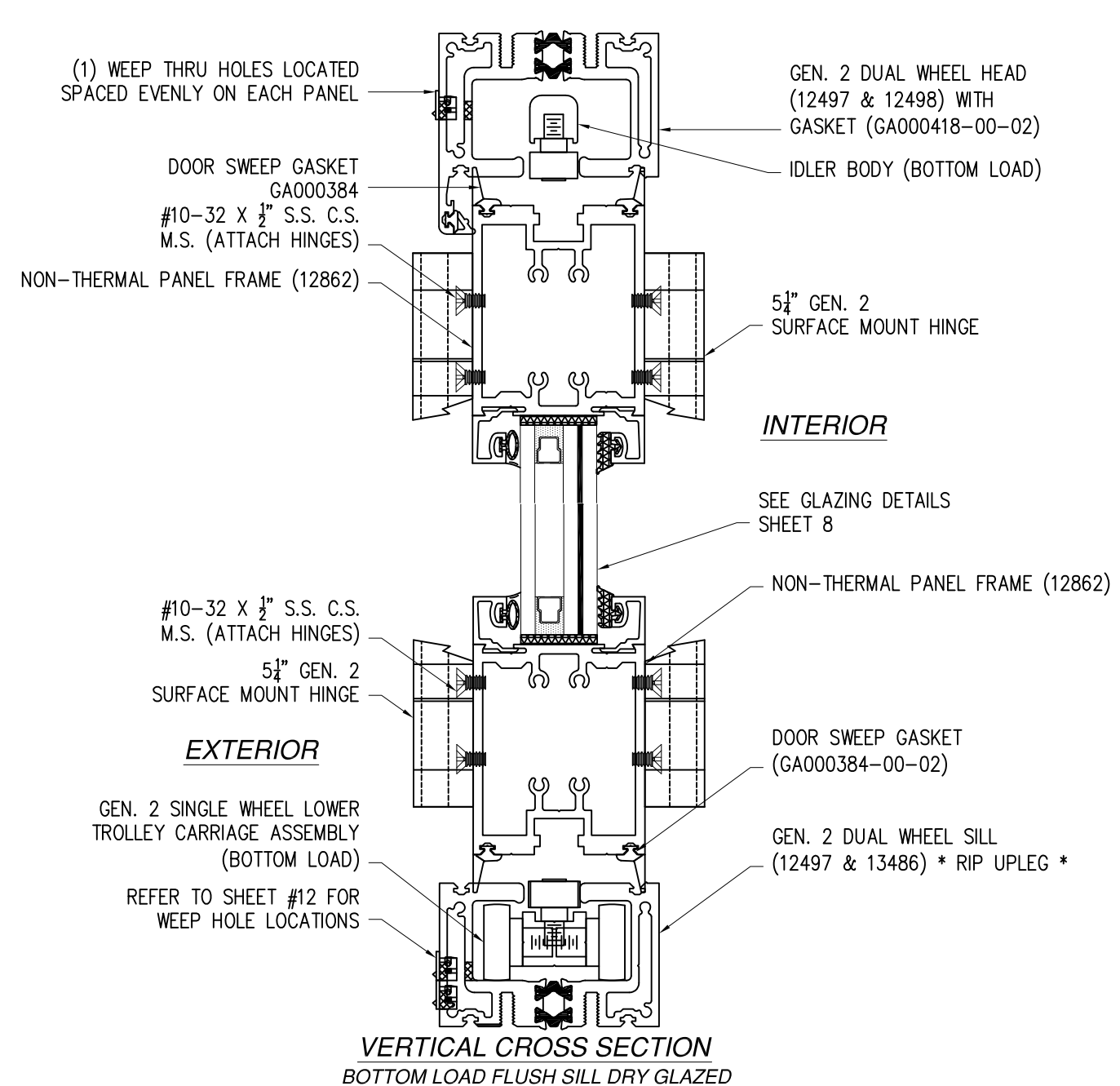
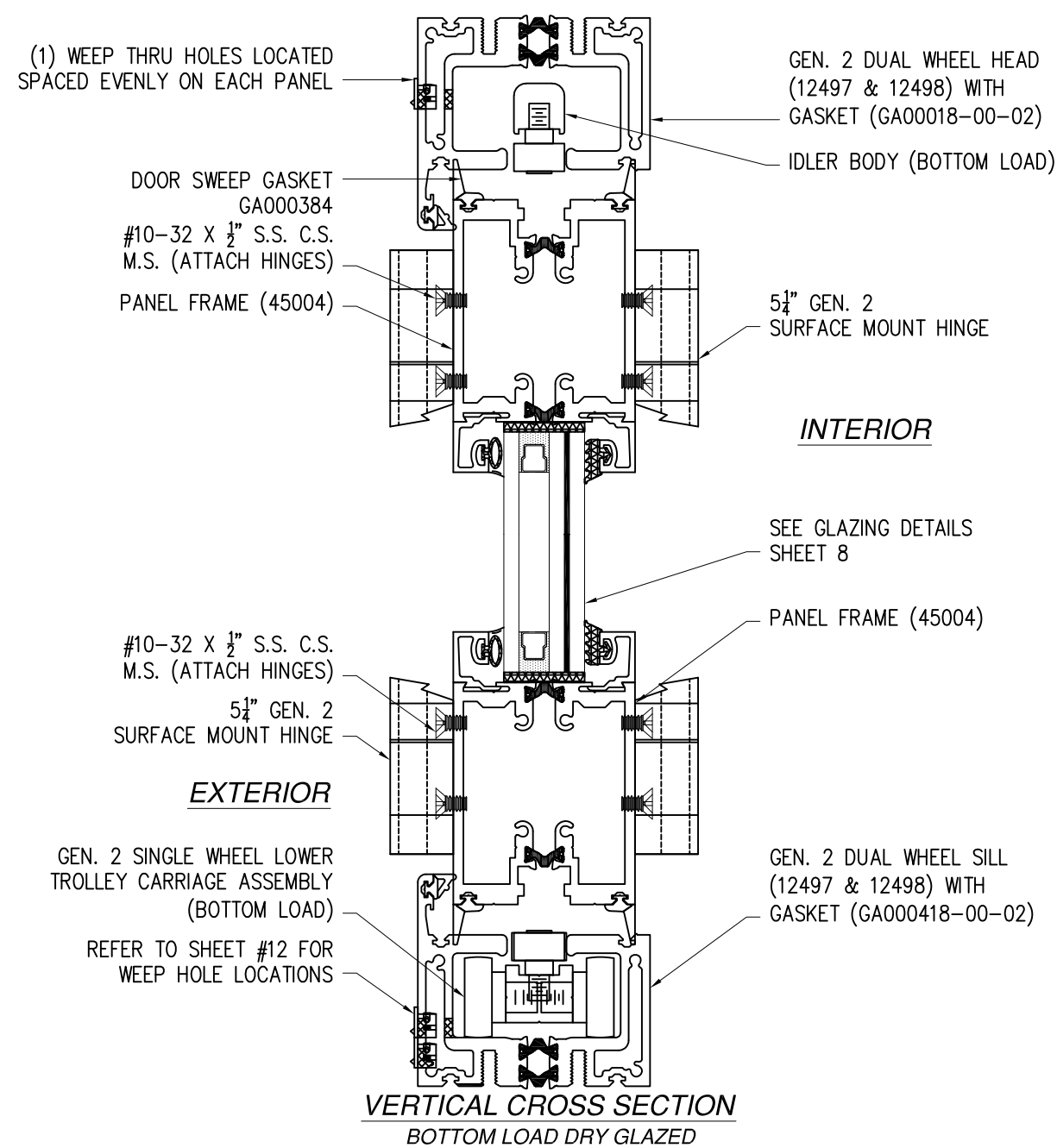
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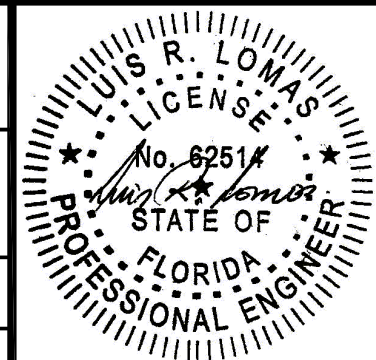
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 IMPACT FGW 3X8 PANEL
RADIUS WALL
VERTICAL CROSS SECTIONS

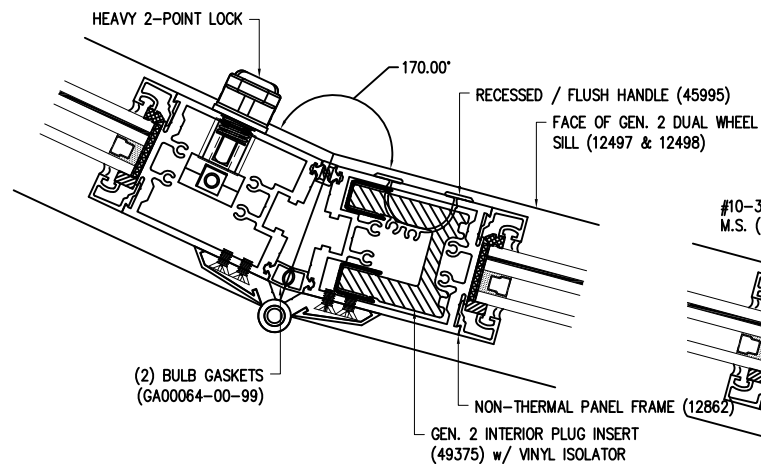
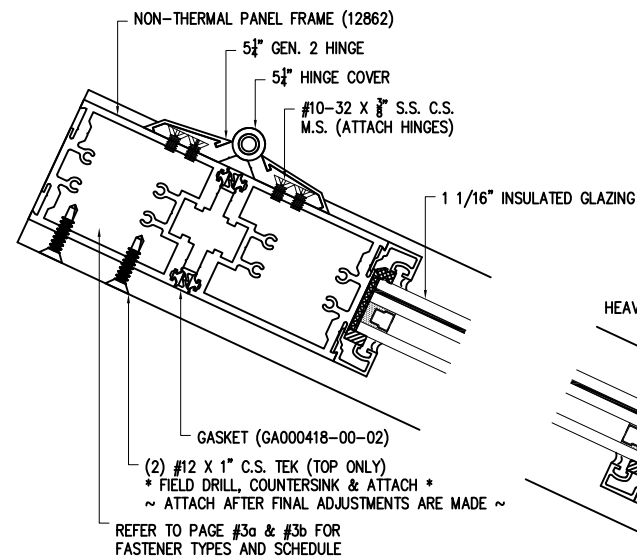
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SCALE NTS	DATE 12/20/12	SHEET 5 OF 13

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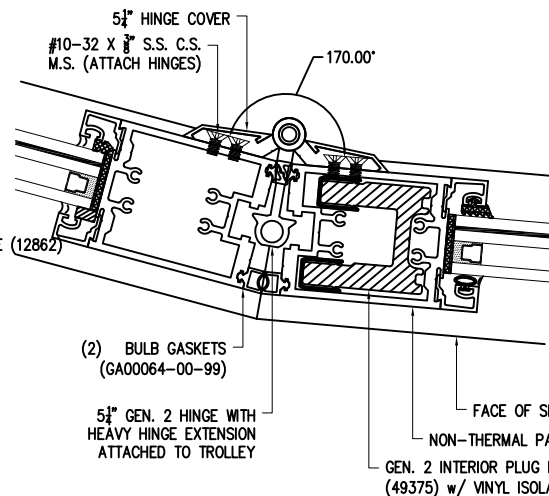
SIGNED: 04/17/2026



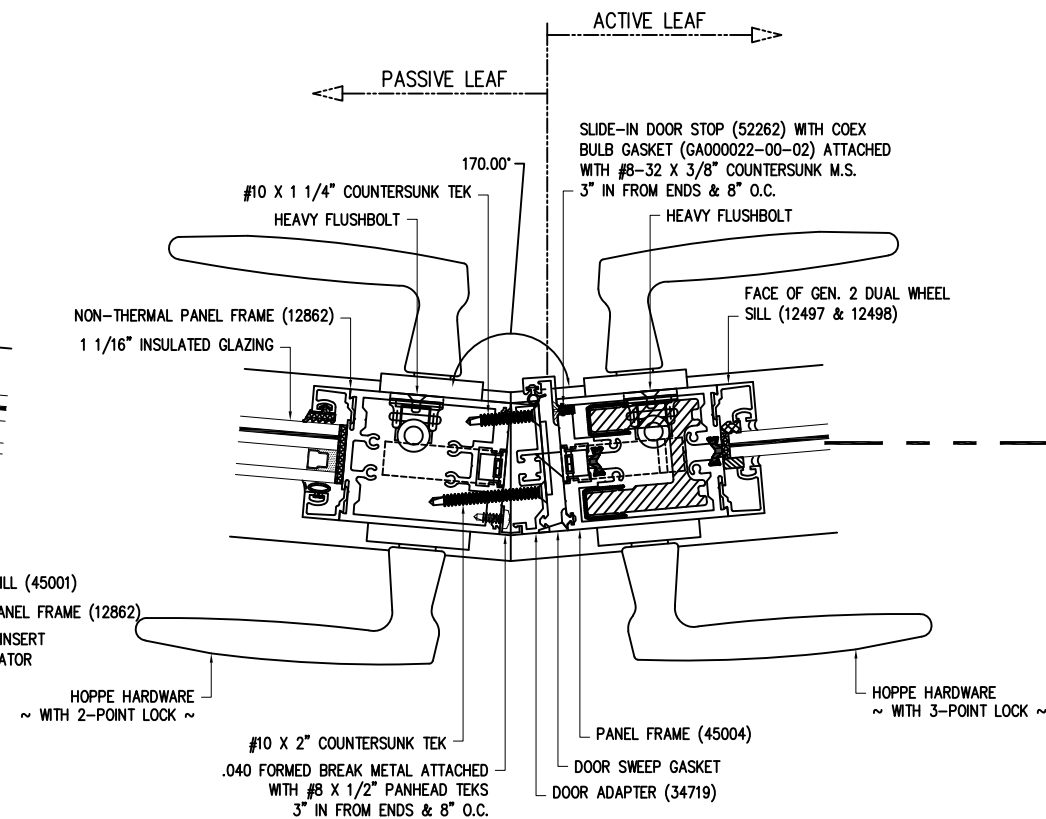
Luis R. Lomas P.E.
FL No.: 62514



EXTERIOR



HORIZONTAL CROSS SECTION



CONTINUED
IN SHEET 7

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
E	REVISED DETAILS	04/17/26	R.L.

SOLAR INNOVATIONS, INC.

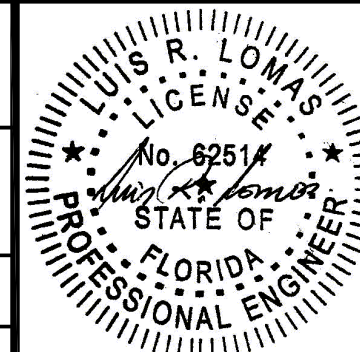
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 IMPACT FGW 3X8 PANEL
RADIUS WALL
HORIZONTAL CROSS SECTIONS

DRAWN: V.L.	DWG NO. 08-01877	REV E
SCALE NTS	DATE 12/20/12	SHEET 6 OF 13

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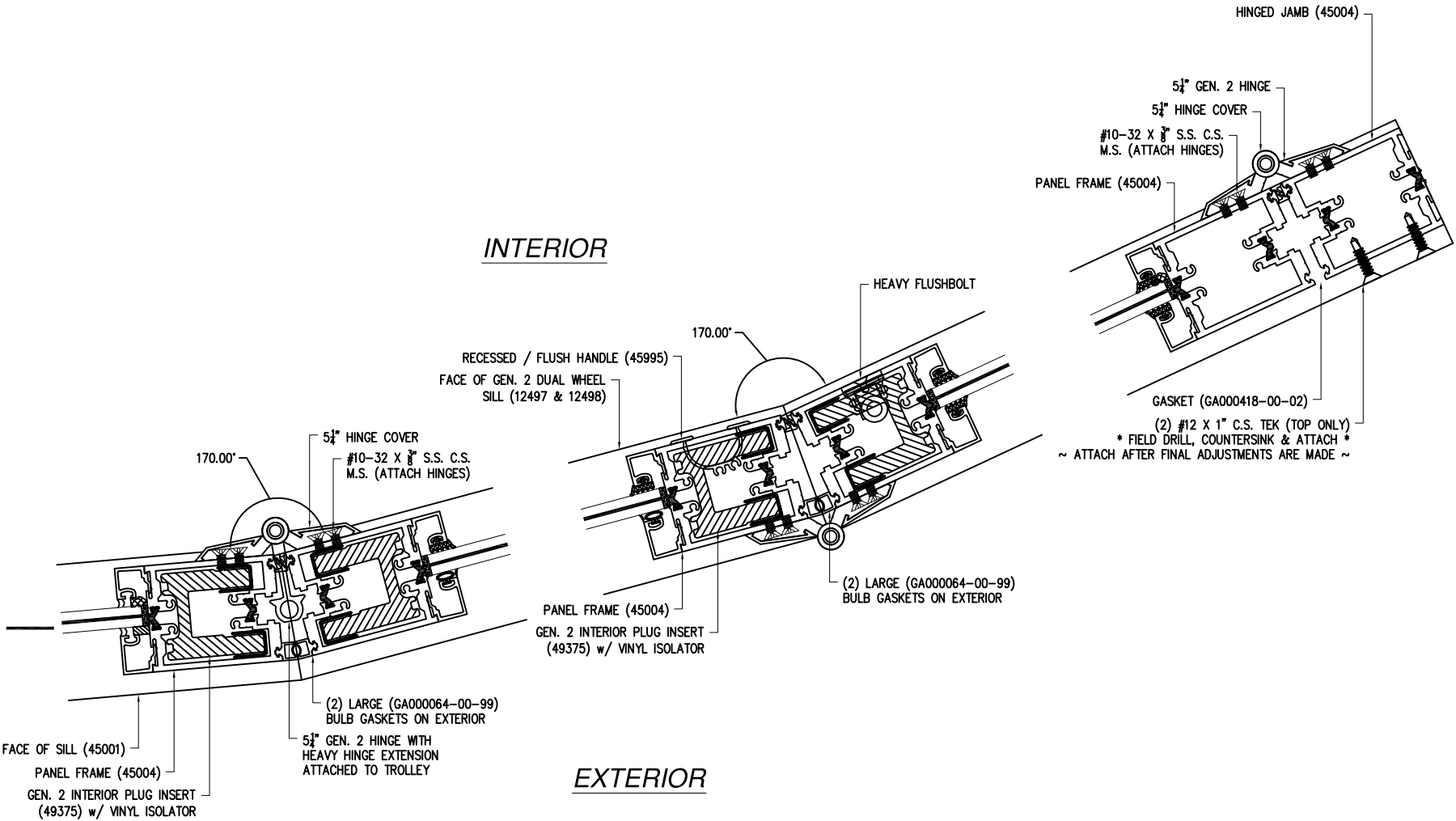
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REVISIONS			
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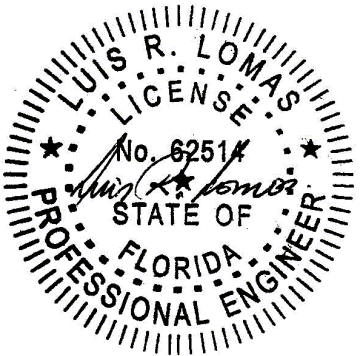
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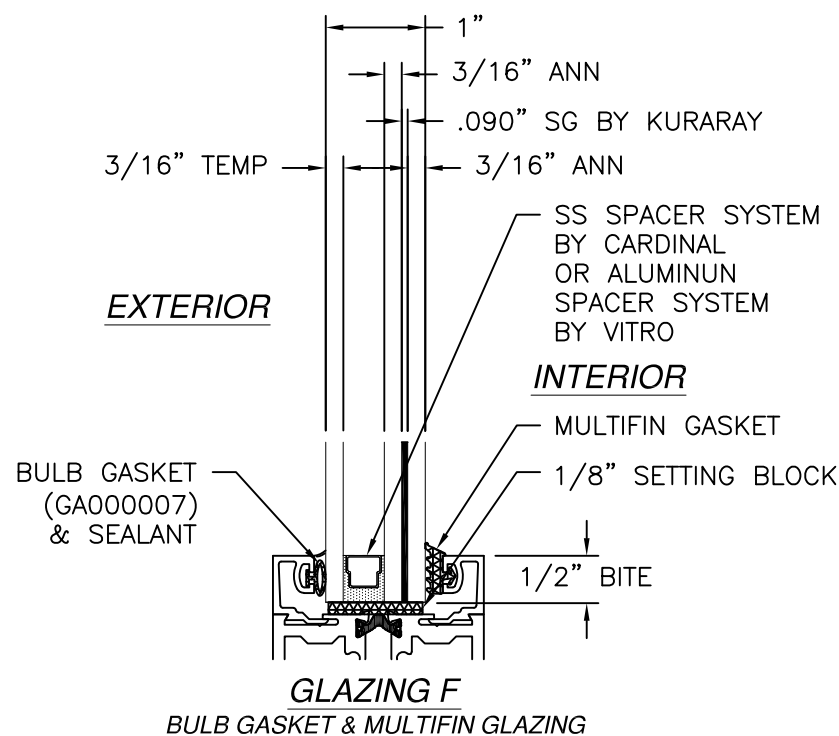
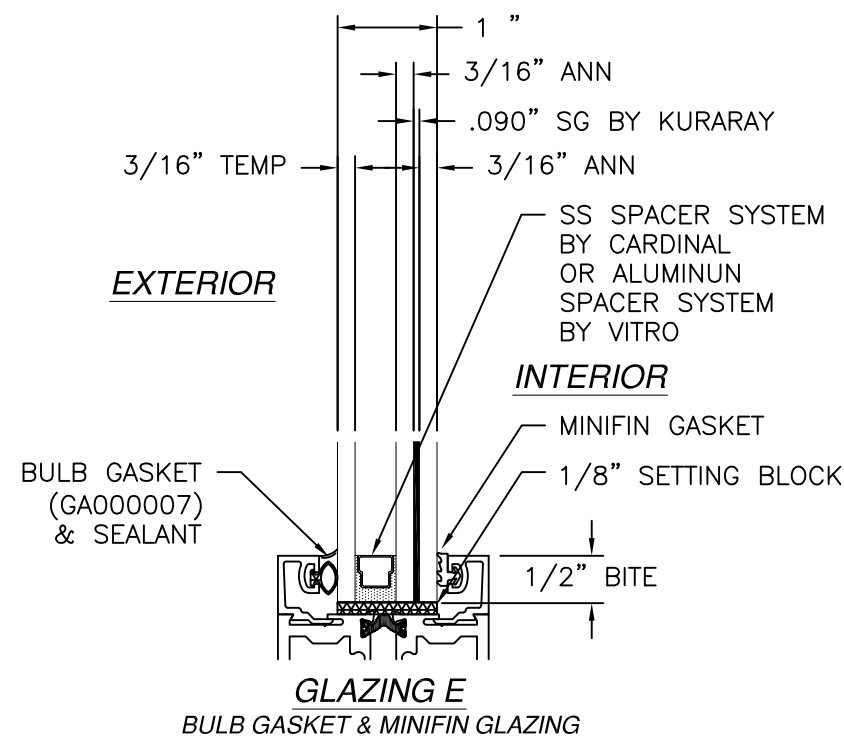
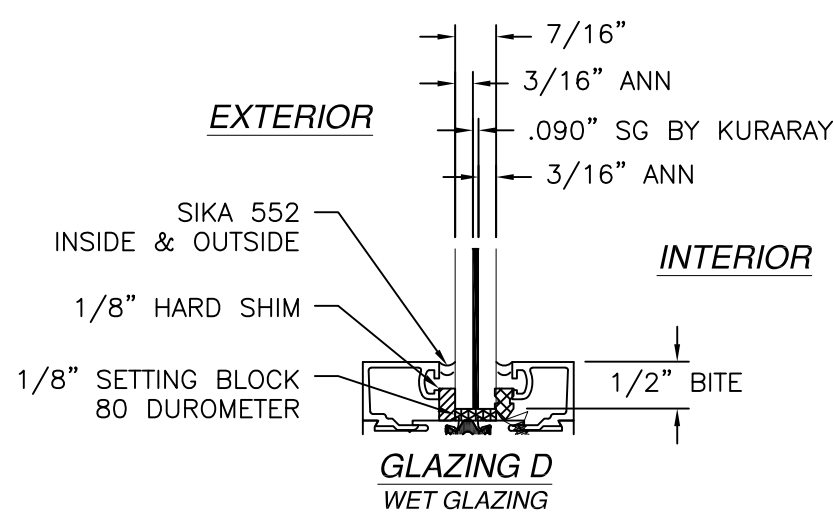
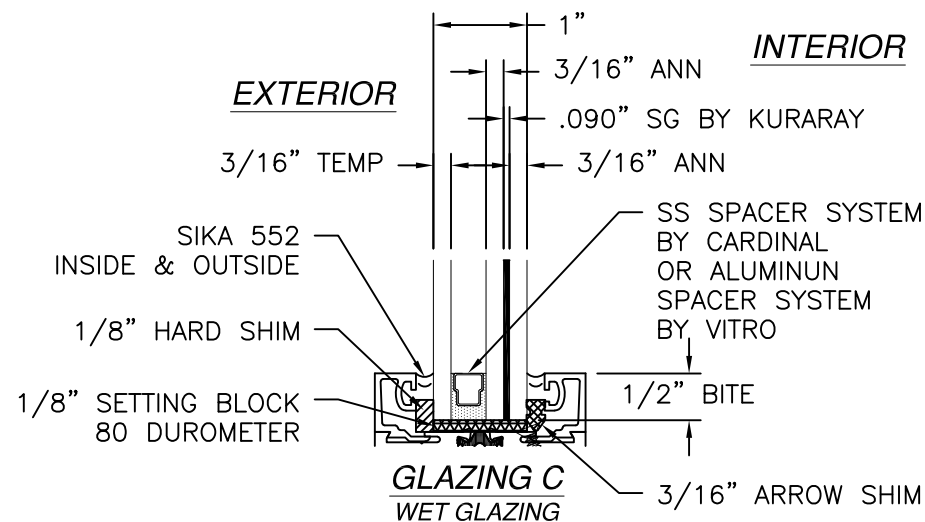
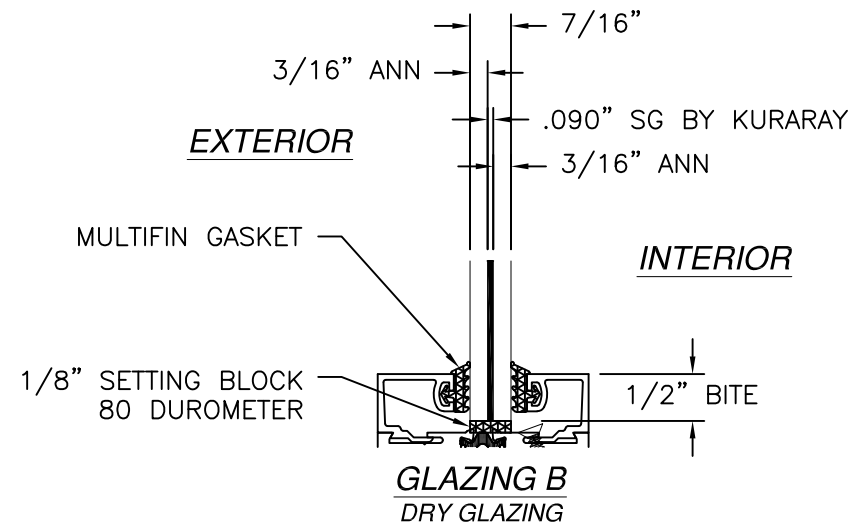
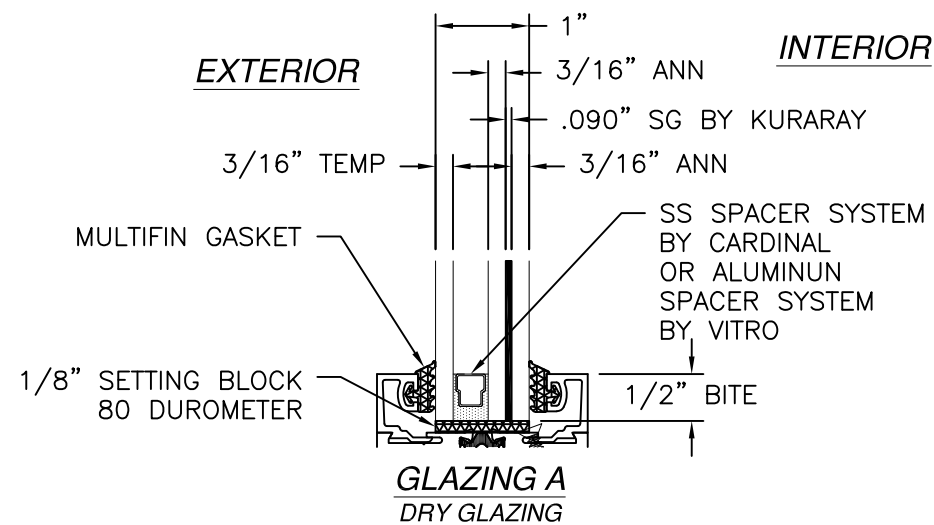
HORIZONTAL CROSS SECTION

SIGNED: 04/17/2026

SOLAR INNOVATIONS, INC. 31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI3000 IMPACT FGW 3X8 PANEL RADIUS WALL HORIZONTAL CROSS SECTIONS		
DRAWN: V.L.	DWG NO. 08-01877	REV E
SCALE NTS	DATE 12/20/12	SHEET 7 OF 13
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



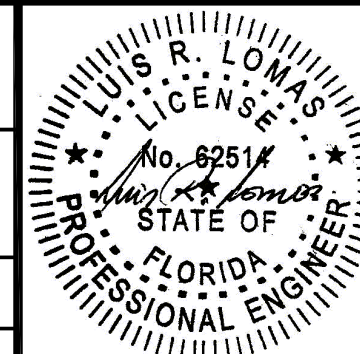
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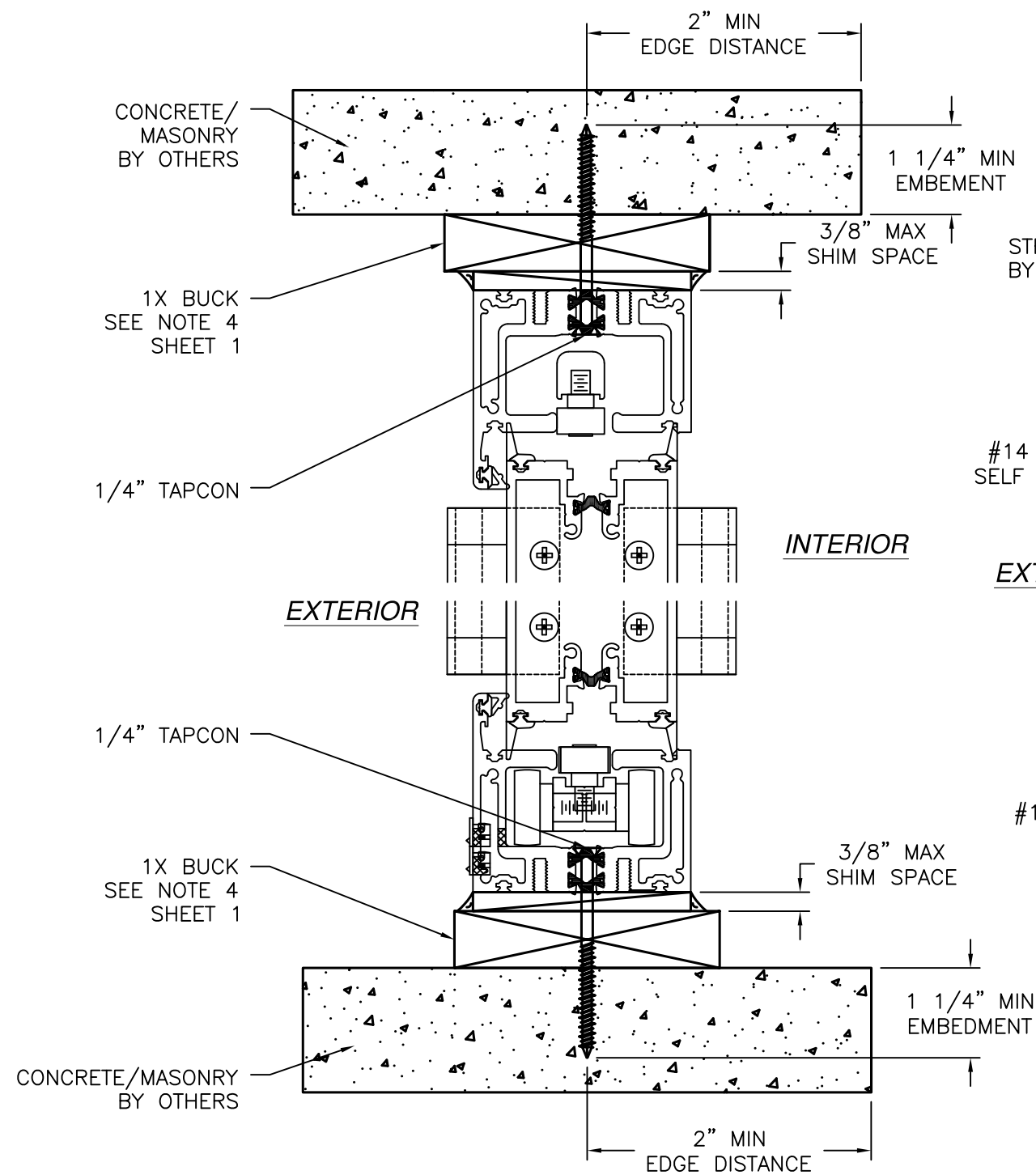
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SOLAR INNOVATIONS, INC. 31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI3000 IMPACT FGW 3X8 PANEL RADIUS WALL GLAZING DETAILS		
DRAWN: V.L.	DWG NO. 08-01877	REV E
SCALE NTS	DATE 12/20/12	SHEET 8 OF 13
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

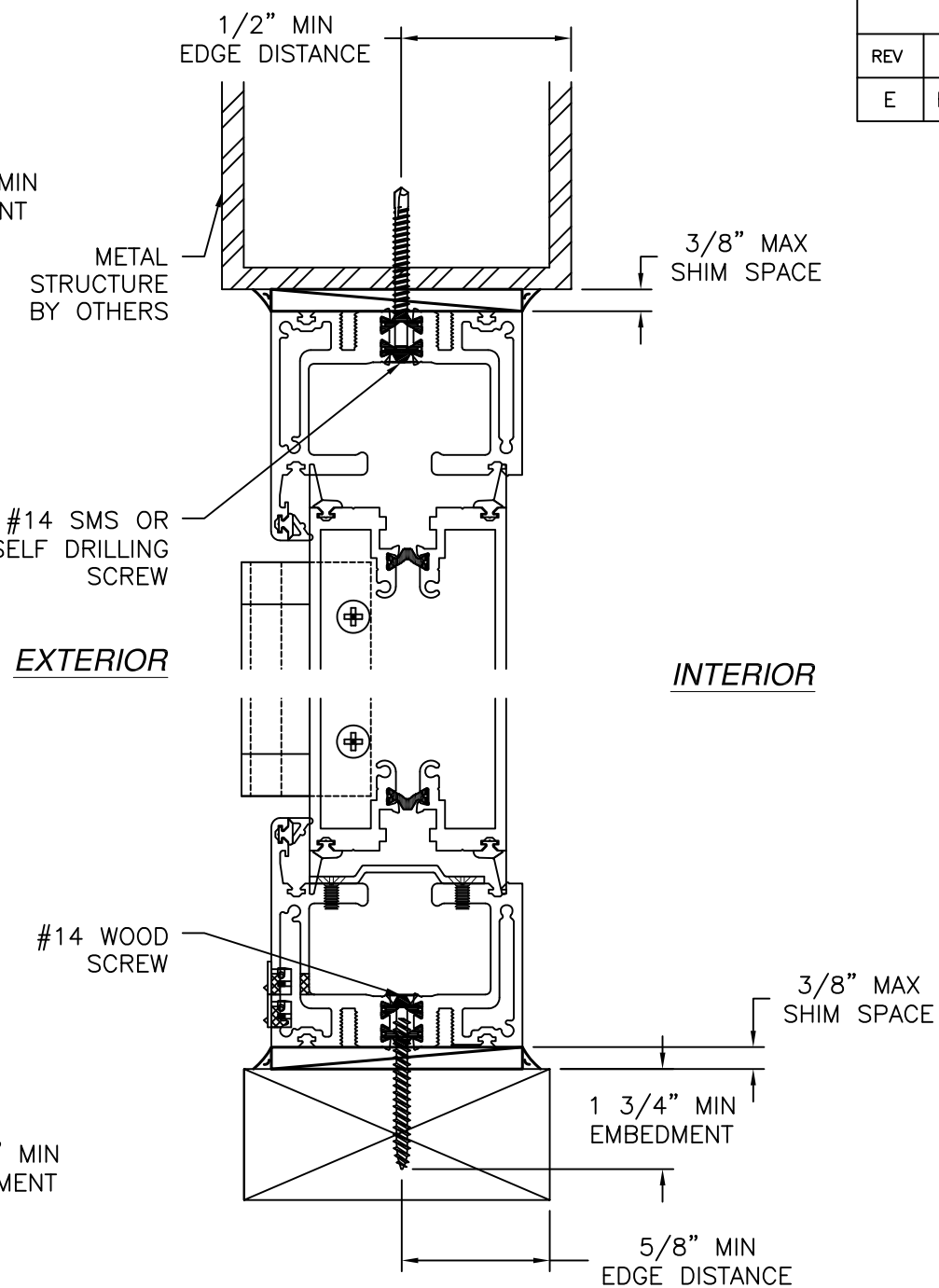
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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION



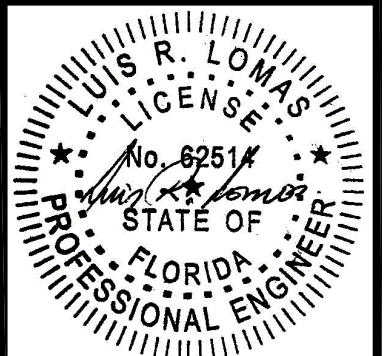
VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK
OR METAL STRUCTURE INSTALLATION

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

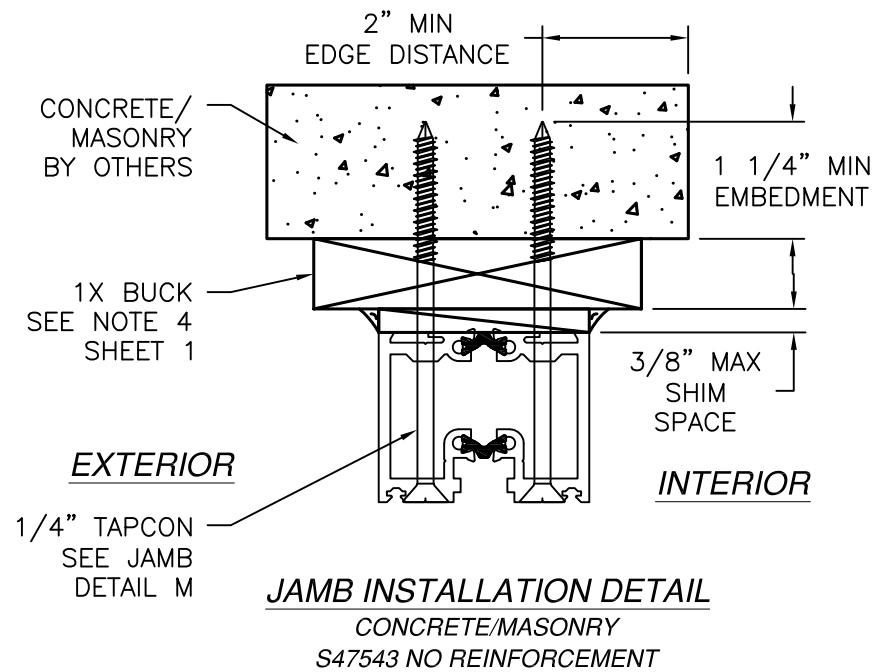
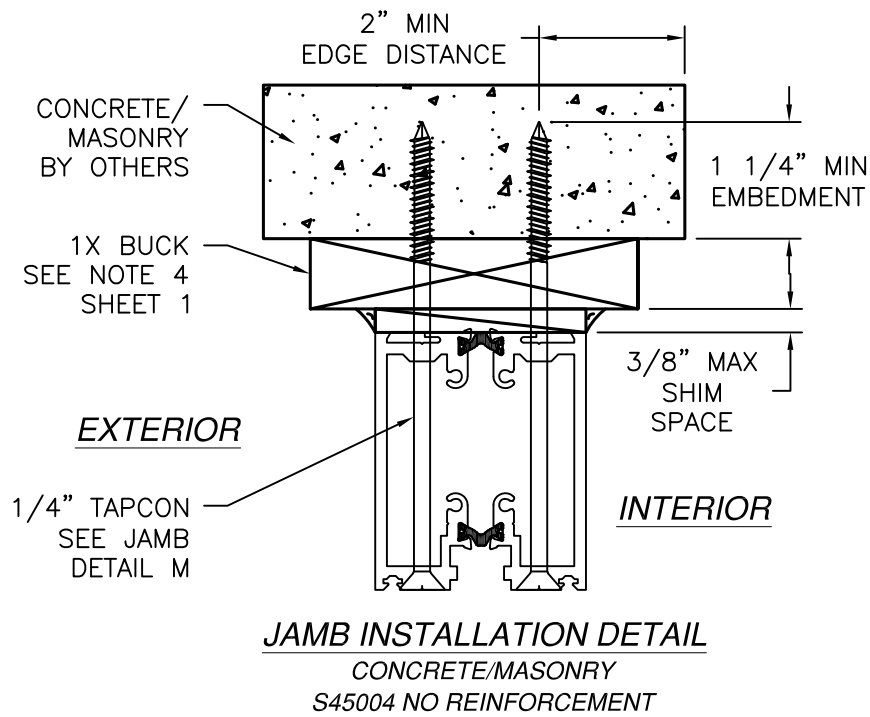
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SOLAR INNOVATIONS, INC.		
31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI3000 IMPACT FGW 3X8 PANEL RADIUS WALL INSTALLATION DETAILS		
DRAWN: V.L.	DWG NO. 08-01877	REV E
SCALE NTS	DATE 12/20/12	SHEET 9 OF 13
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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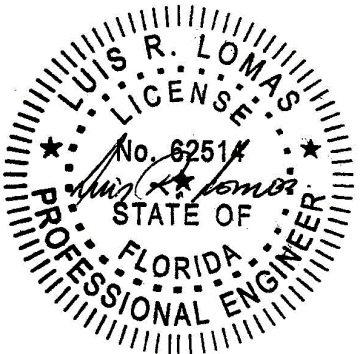
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- NOTES:
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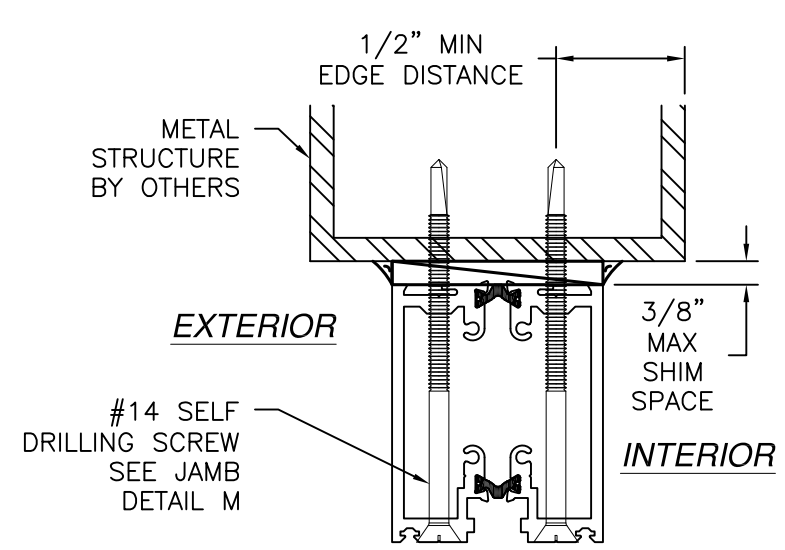
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SOLAR INNOVATIONS, INC. 31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI3000 IMPACT FGW 3X8 PANEL RADIUS WALL INSTALLATION DETAILS		
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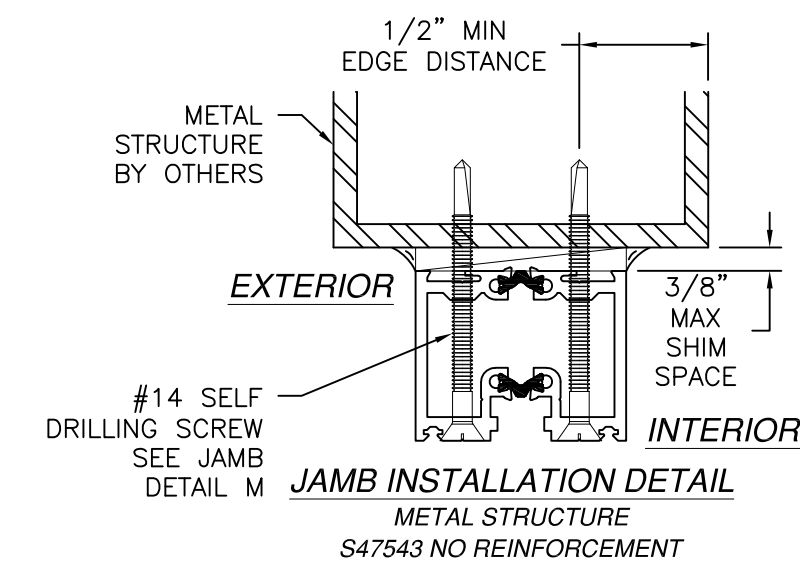


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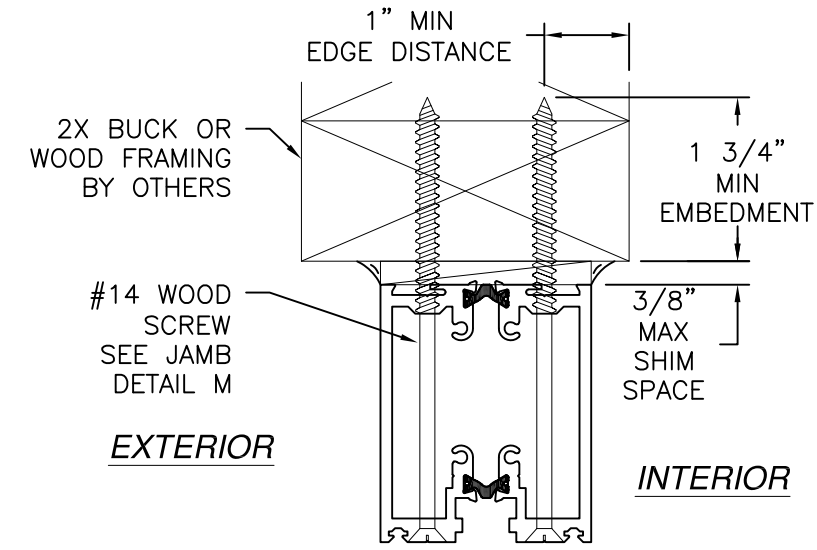
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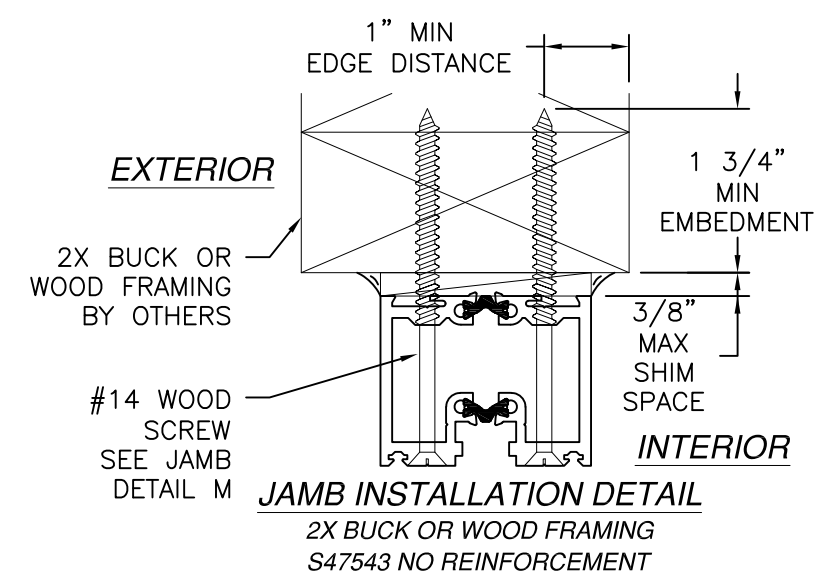
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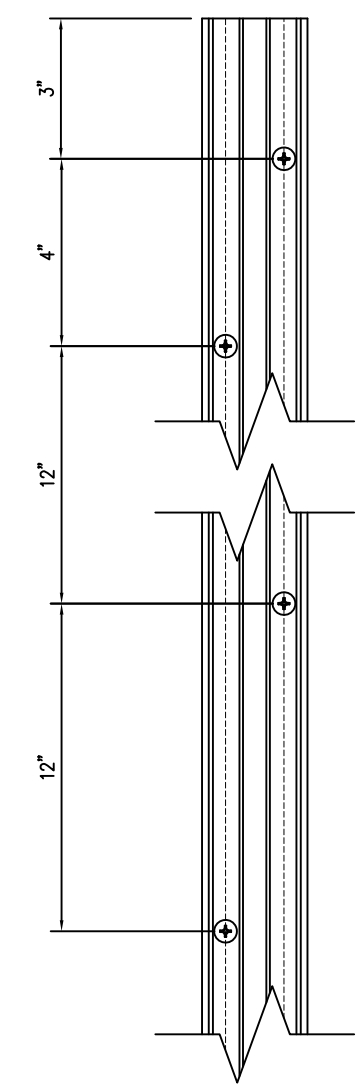
JAMB INSTALLATION DETAIL
METAL STRUCTURE
S47543 NO REINFORCEMENT



JAMB INSTALLATION DETAIL
2X BUCK OR WOOD FRAMING
S45004 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

SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 IMPACT FGW 3X8 PANEL
RADIUS WALL
INSTALLATION DETAILS

DRAWN: V.L.

DWG NO. 08-01877

REV E

SCALE NTS

DATE 12/20/12

SHEET 11 OF 13

L. ROBERTO LOMAS P.E.

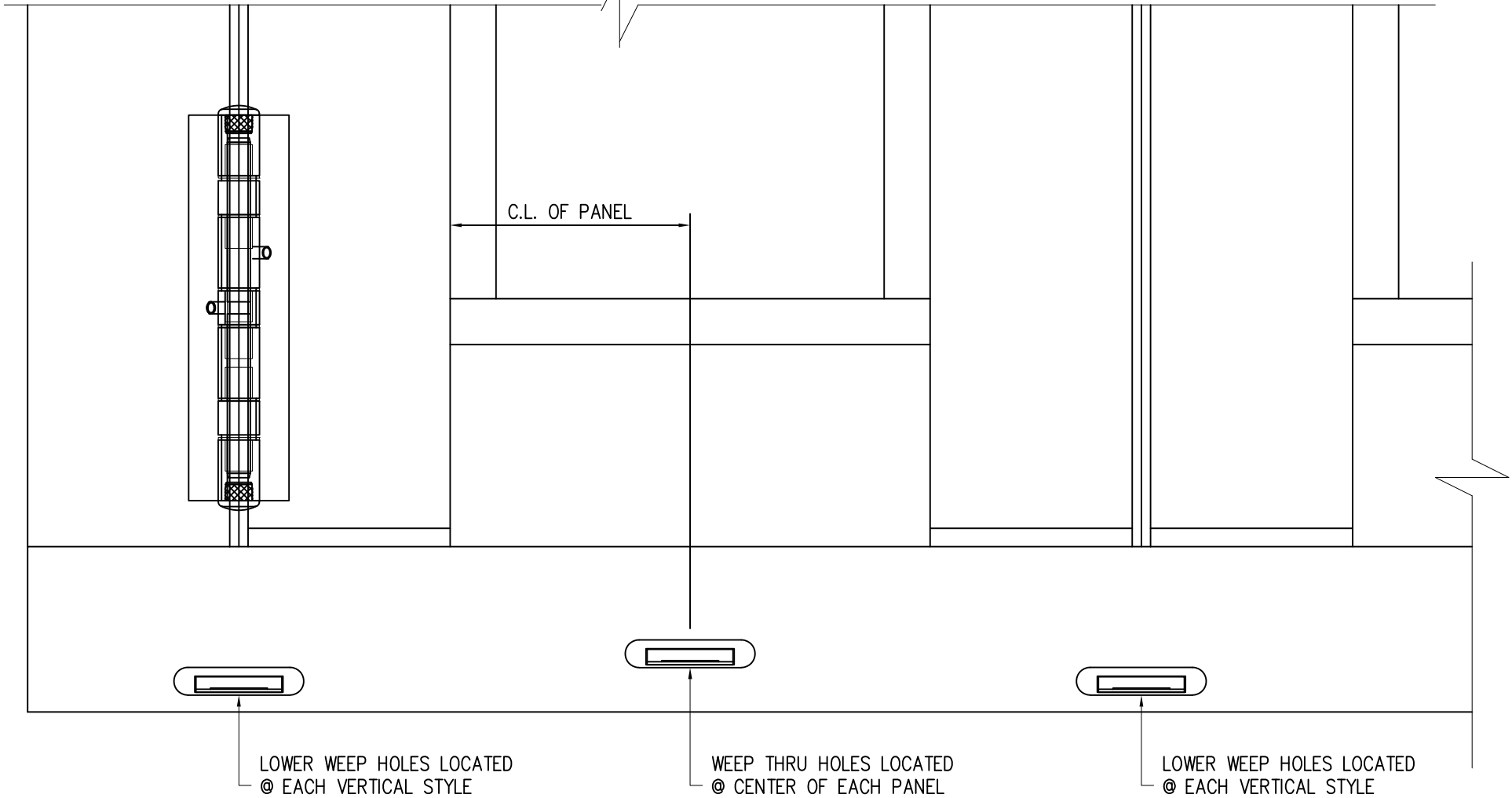
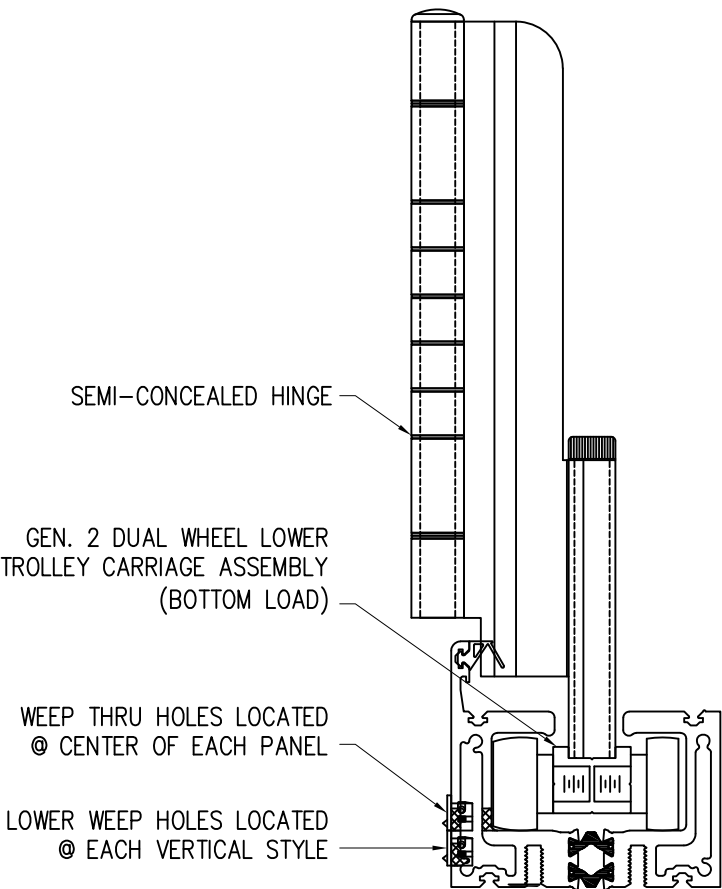
208 7th Ave, INDIALANTIC, FL 32903

434-688-0609 rllomas@lrlomaspe.com

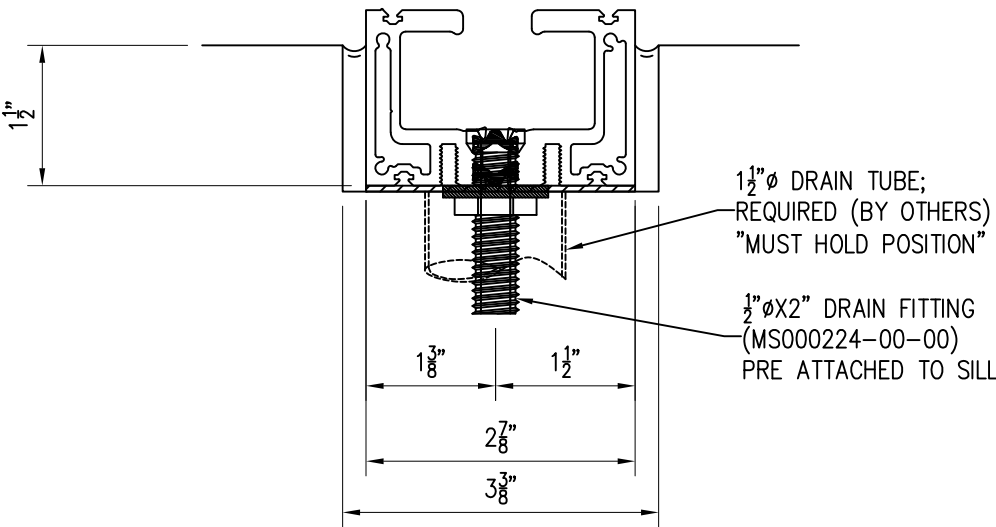
SIGNED: 04/17/2026

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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
E	REVISED DETAILS	04/17/26	R.L.



WEEP LOCATIONS



DRAIN PIPE DETAIL

SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 IMPACT FGW 3X8 PANEL
RADIUS WALL
WEEP LOCATIONS

DRAWN: V.L.

DWG NO. 08-01877

REV E

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SHEET 12 OF 13

L. ROBERTO LOMAS P.E.

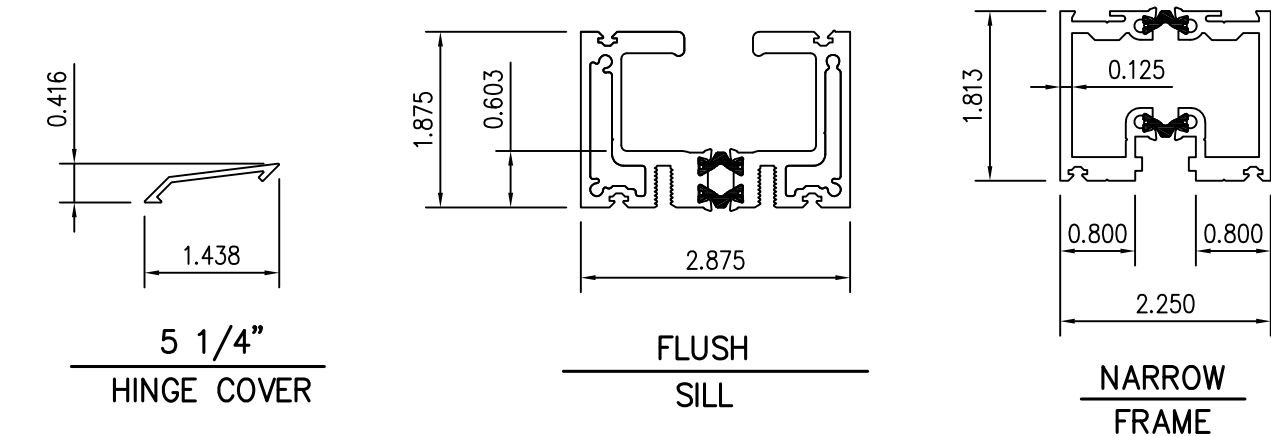
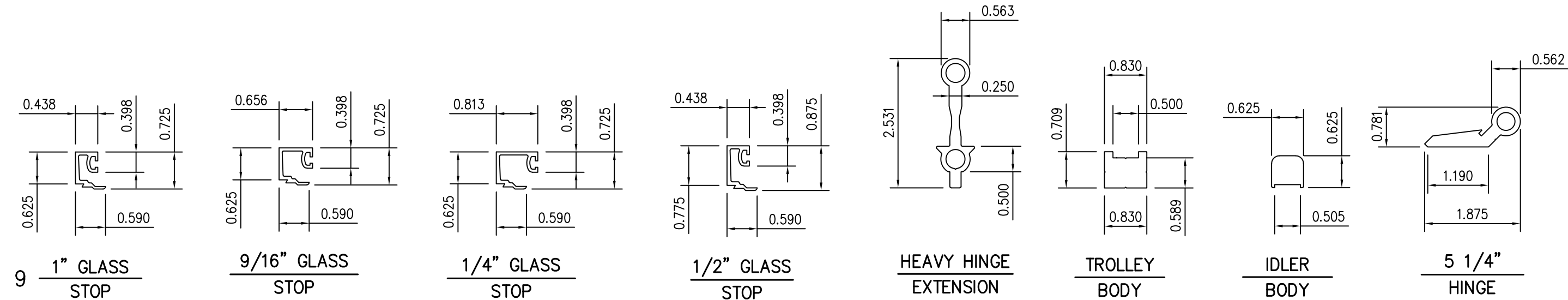
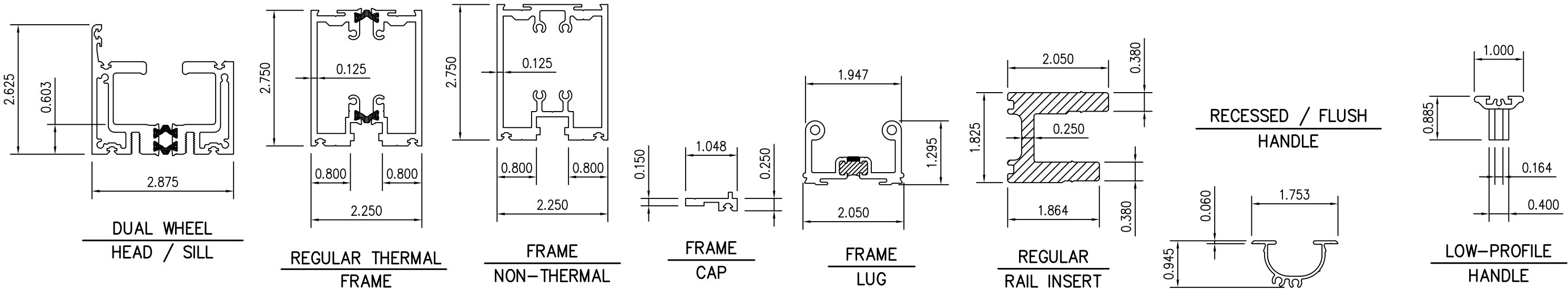
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SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 IMPACT FGW 3X8 PANEL
RADIUS WALL
COMPONENTS

DRAWN: V.L.

DWG NO. 08-01877

REV E

SCALE NTS

DATE 12/20/12

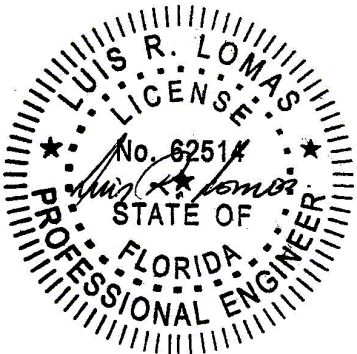
SHEET 13 OF 13

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