

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/23	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. 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-T5, 6063-T6 AND 6005A-T5.

6. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 11 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 3/8".
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" 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 3,000 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 .125" THICK MINIMUM

SIGNED: 12/12/2023

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SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 FGW 3X8 PANEL 90° CORNER
NO POST INFOLD IMPACT
NOTES

DRAWN:
R.L.

DWG NO.
08-01794F

REV
F

SCALE NTS

DATE 09/19/12

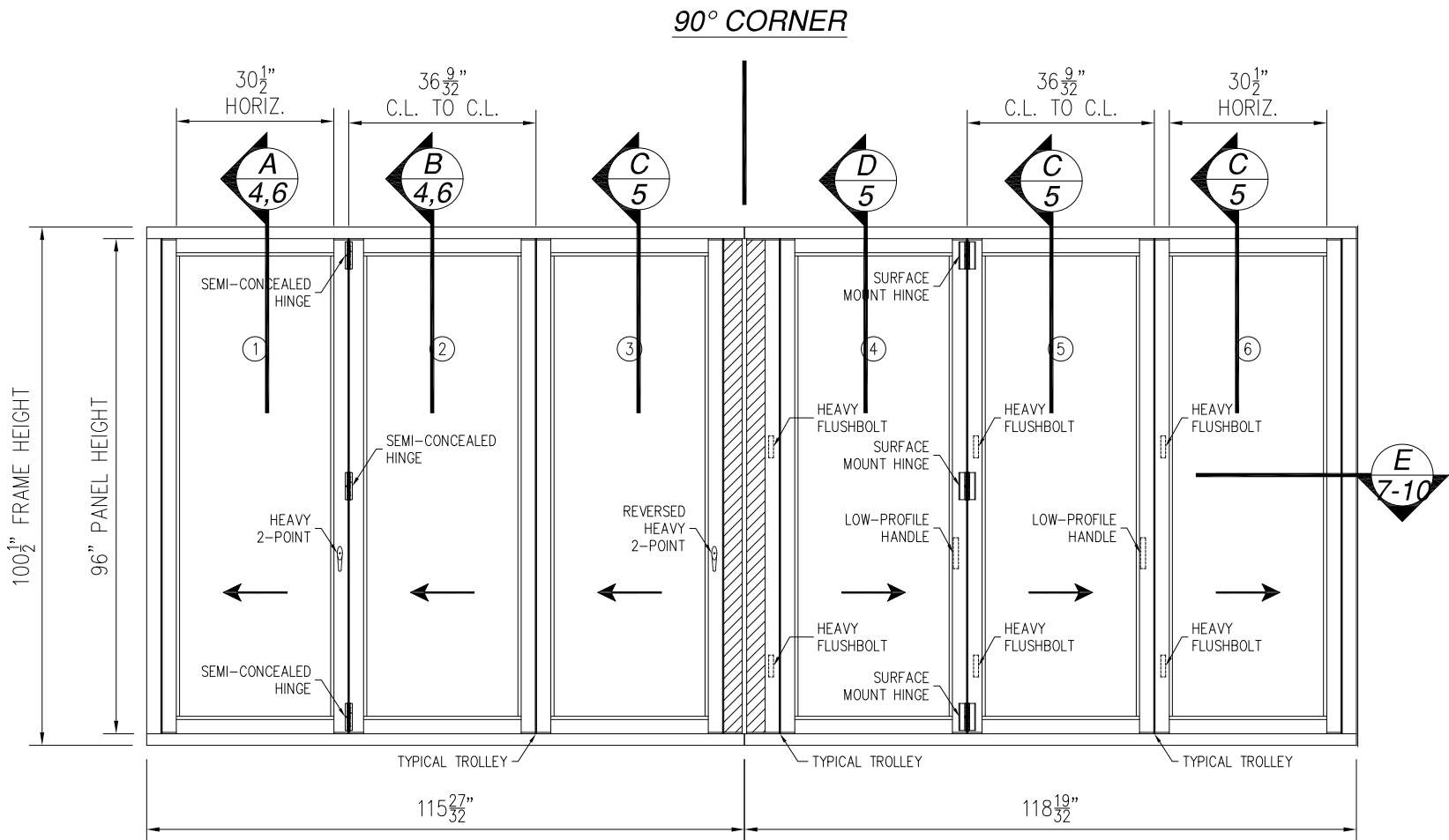
SHEET 1 OF 16

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STATE OF
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PROFESSIONAL ENGINEER

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

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SERIES SI3000 FGW 3X8 PANEL 90° CORNER NO POST INFOLD

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/-80.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
WHERE WATER RESISTANCE IS REQUIRED
SEE CHART #1 SHEET 3

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

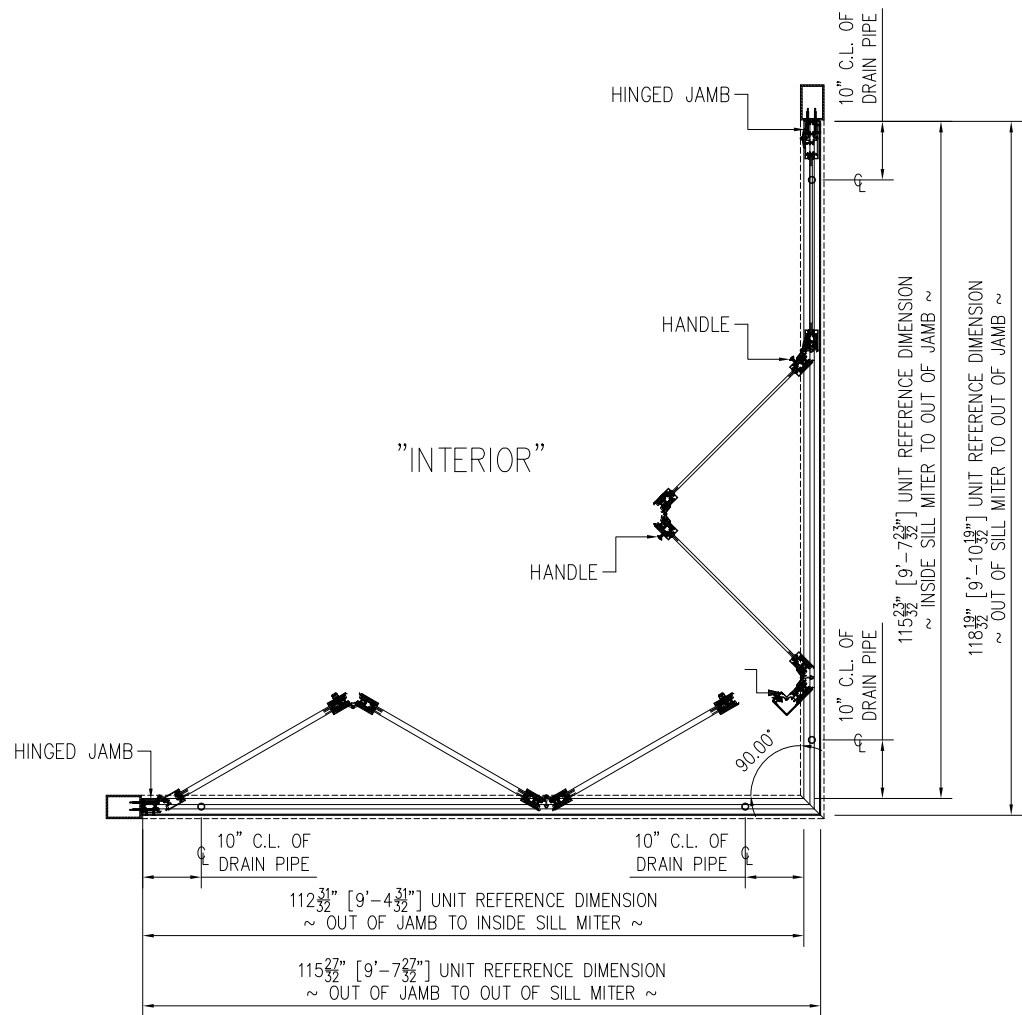
MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
WHERE WATER RESISTANCE IS NOT REQUIRED
SEE CHART #2 SHEET 3

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

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
WITH NON-THERMAL PANELS
SEE CHART #3 SHEET 3

HARDWARE SCHEDULE

A. SEMI- CONCEALED HINGE BY SOLAR INNOVATIONS
B 2 POINT HANDLE & LOCK MS000487-XX BY SOLAR INNOVATIONS
C HEAVY FLUSH BOLTS MS000442 BY SOLAR INNOVATIONS



SERIES SI3000 FGW 3X8 PANEL 90° CORNER NO POST INFOLD

PLAN VIEW

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

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
WITH FLUSH SILL, SEE CHART #3 SHEET 3

SOLAR INNOVATIONS, INC.

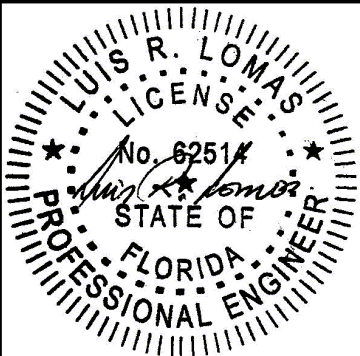
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 FGW 3X8 PANEL 90° CORNER
NO POST INFOLD IMPACT
ELEVATION

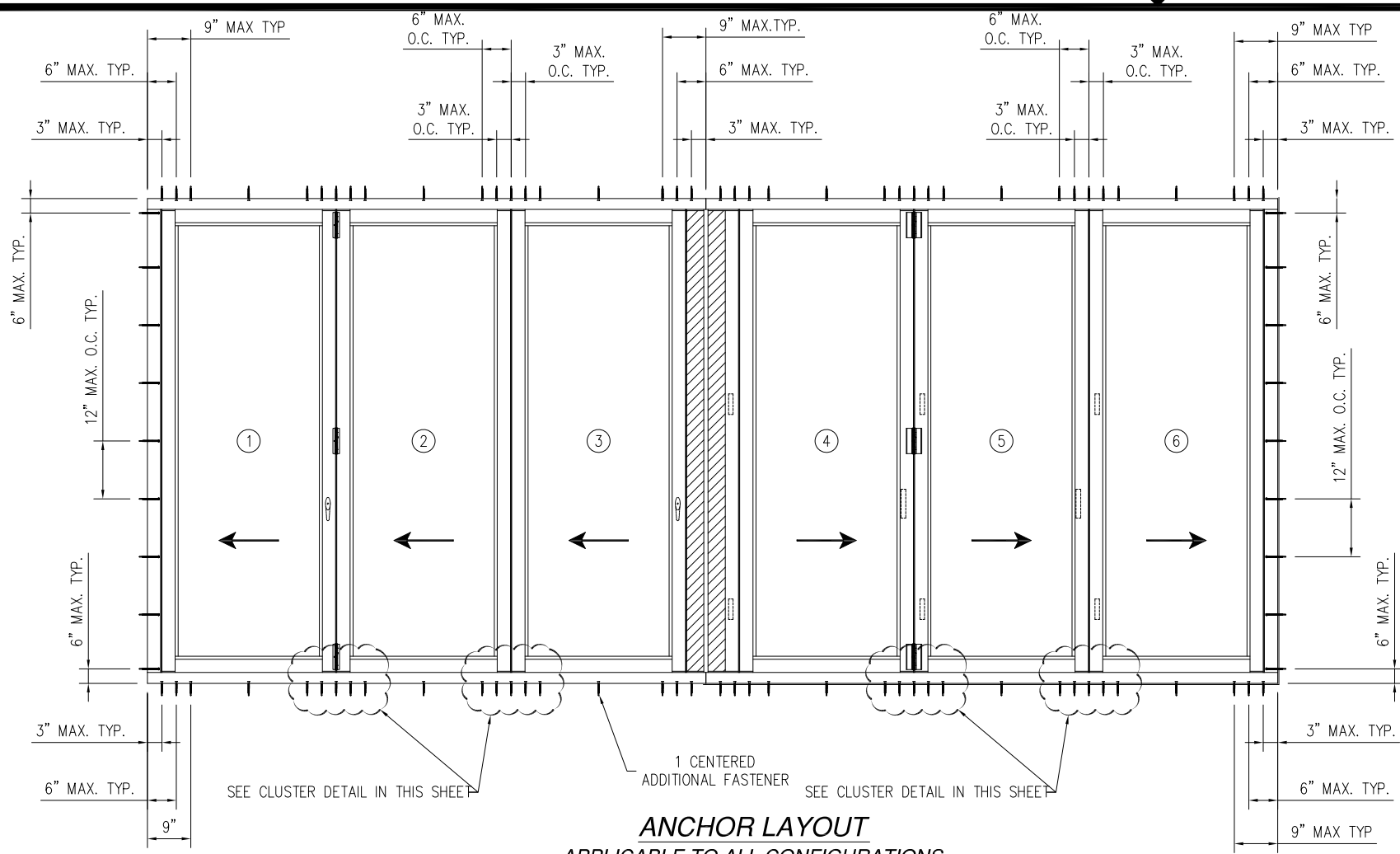
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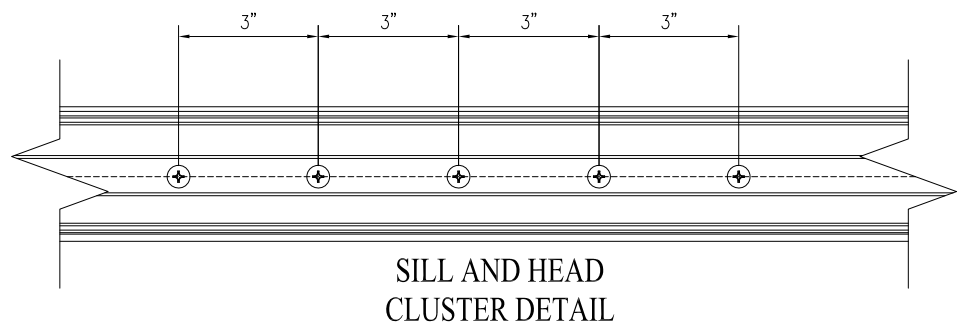
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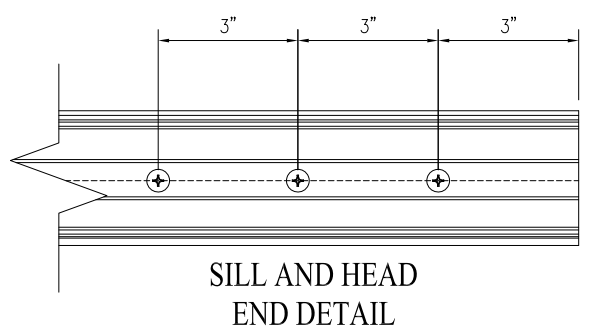
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ANCHOR LAYOUT
APPLICABLE TO ALL CONFIGURATIONS.



SILL AND HEAD
CLUSTER DETAIL



SILL AND HEAD
END DETAIL

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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	80.0	60.0	80.0	-	-	-	-
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	-	-	-	-	-	-	-	-

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	-	-	-	-
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	-	-	-	-	-	-	-	-

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

SERIES SI3000 FGW 3X8 PANEL 90° CORNER
NO POST INFOLD IMPACT
ANCHORING LAYOUT AND RATING CHARTS

DRAWN: R.L. DWG NO. 08-01794F REV F

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

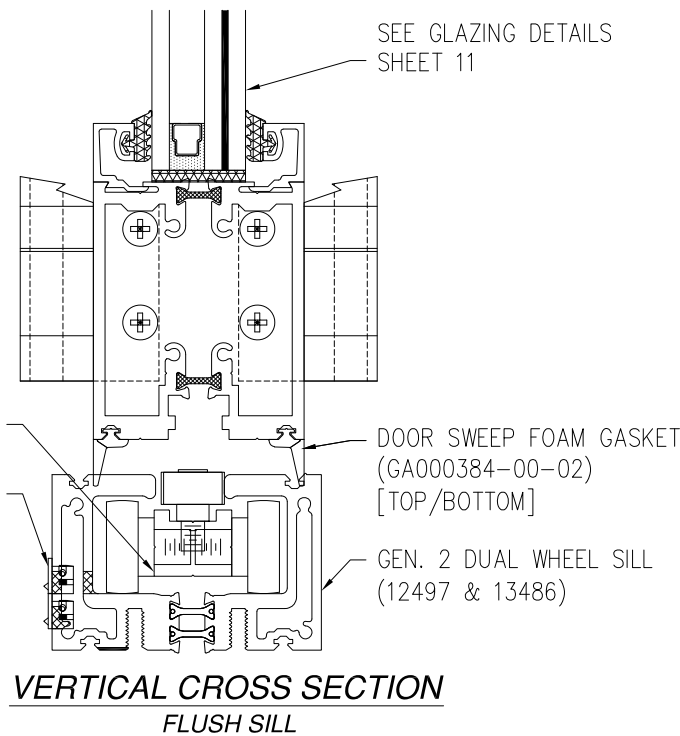
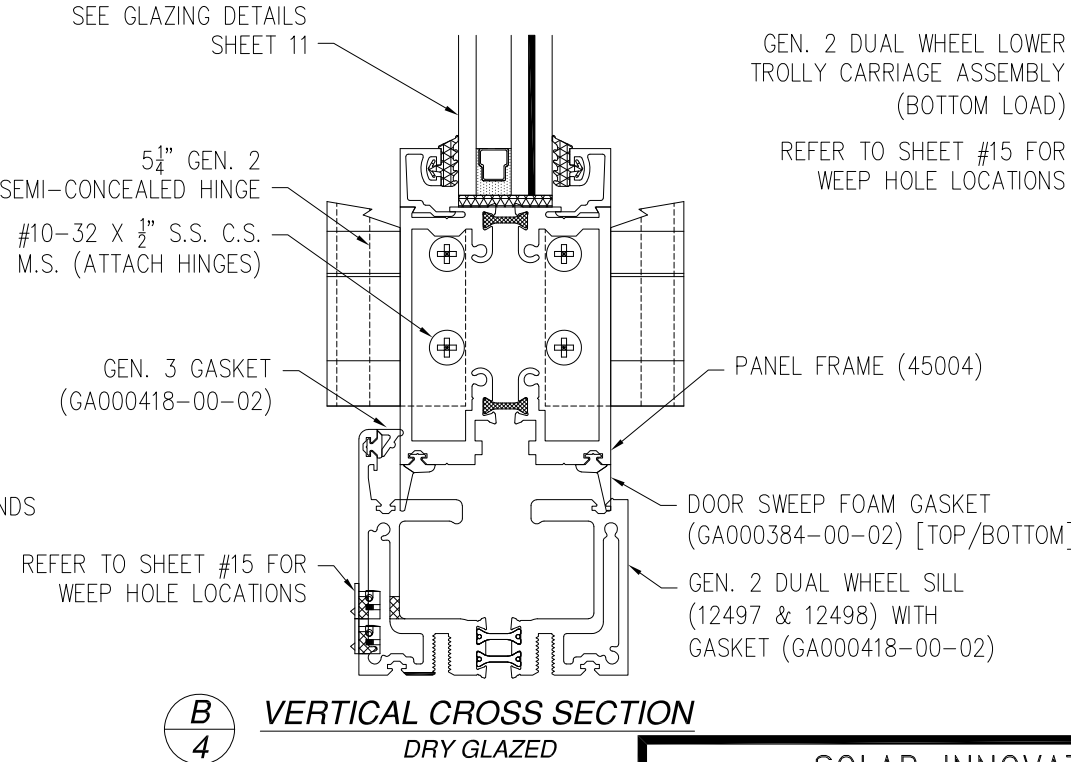
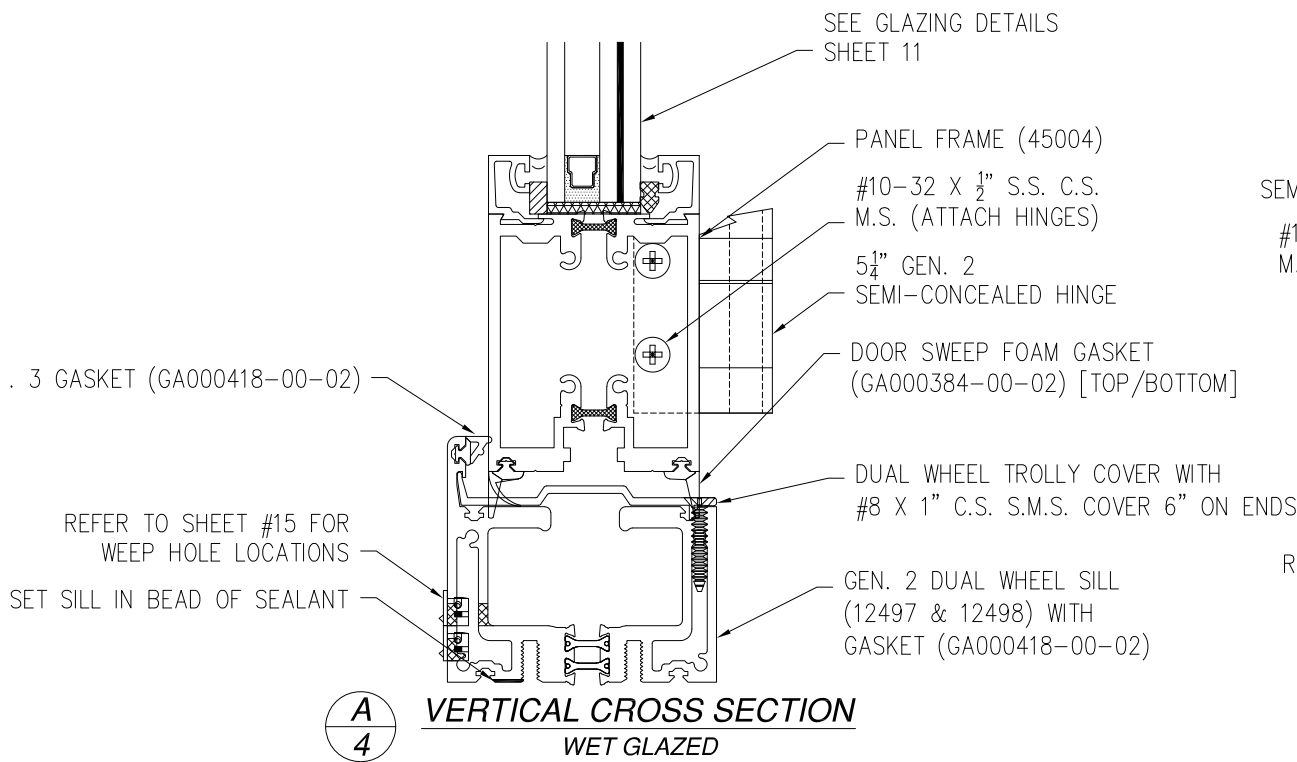
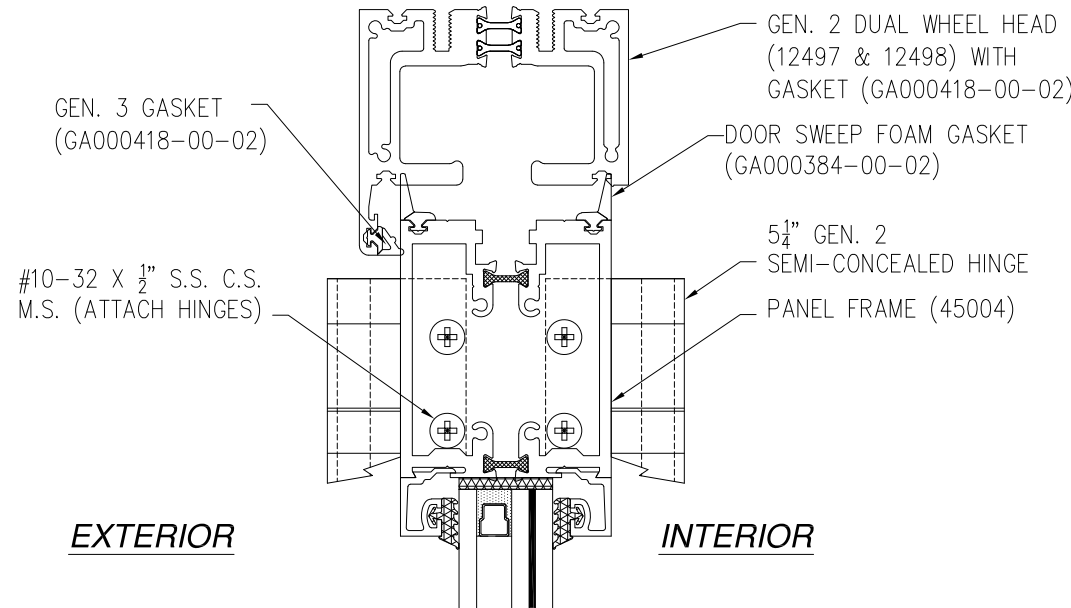
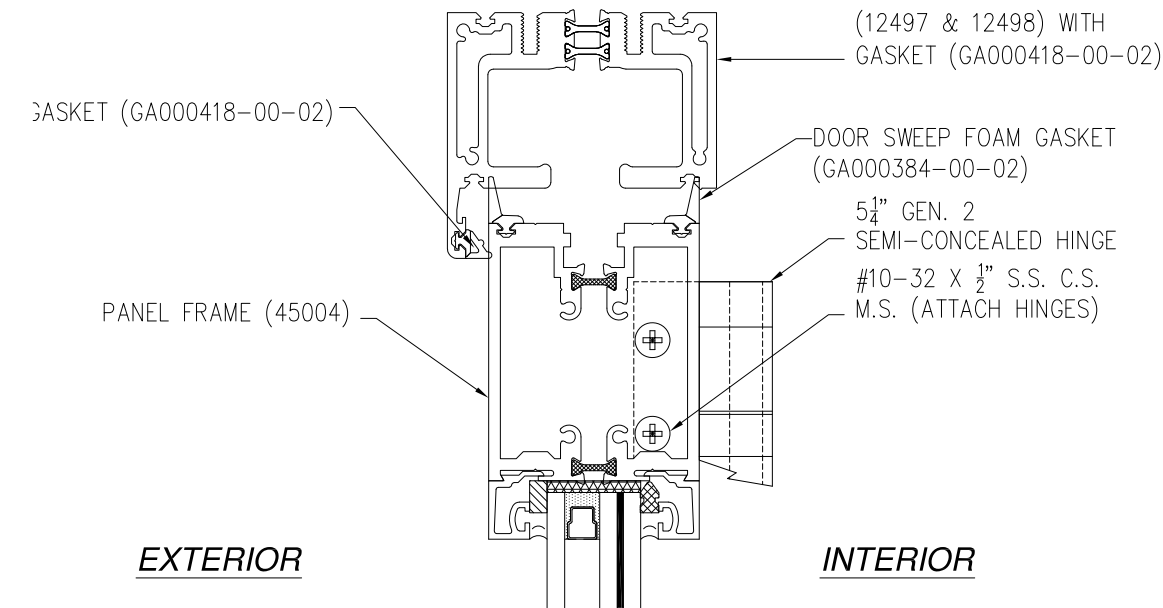
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FL No.: 62514

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

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

SERIES SI3000 FGW 3X8 PANEL 90° CORNER
NO POST INFOLD IMPACT
VERTICAL CROSS SECTIONS

DRAWN: R.L.	DWG NO. 08-01794F	REV F
SCALE NTS	DATE 09/19/12	SHEET 4 OF 16

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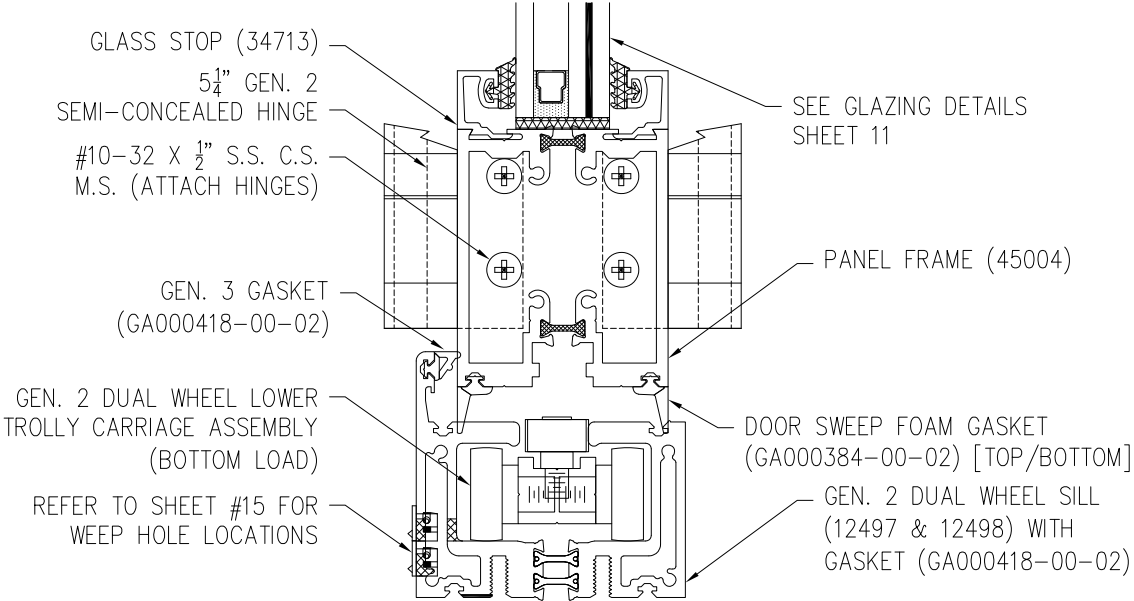
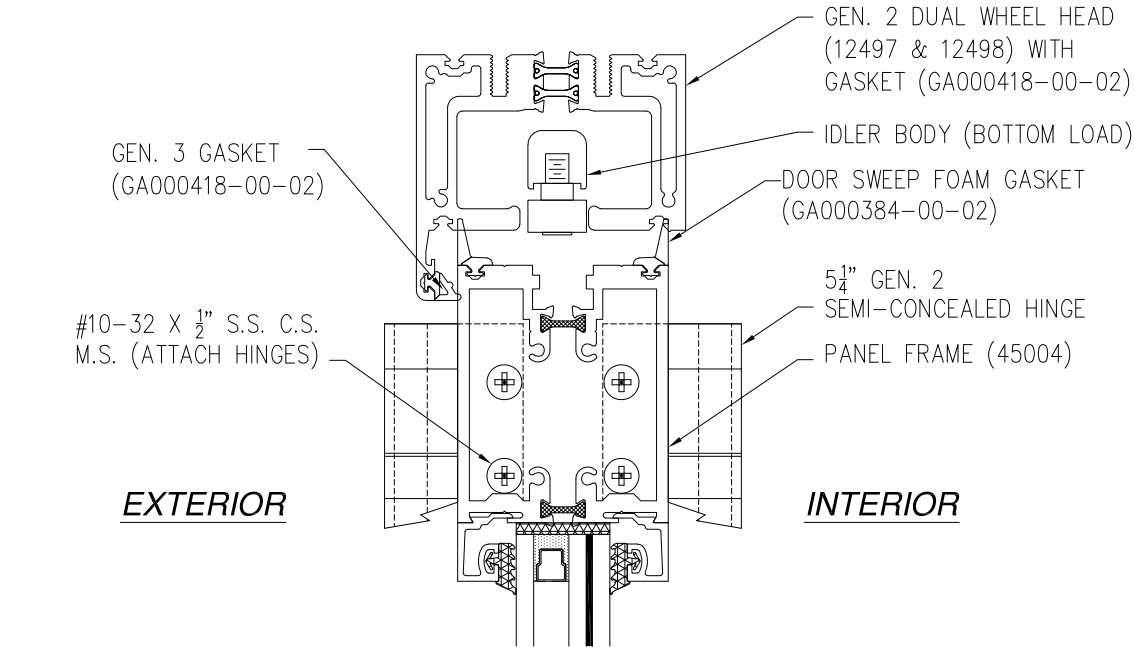
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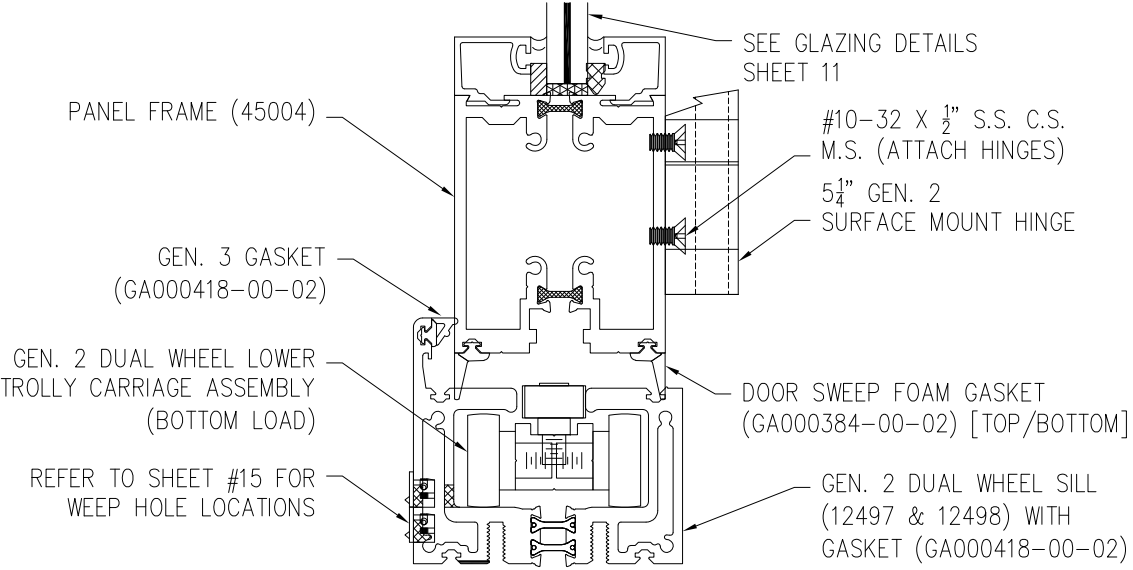
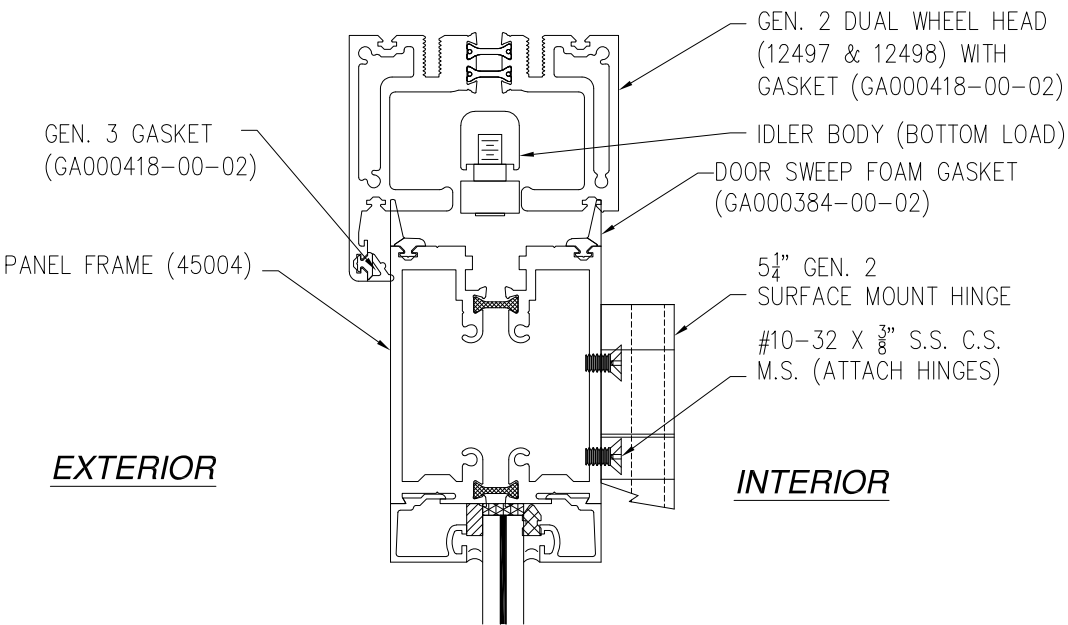
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C
5
VERTICAL CROSS SECTION
DRY GLAZED BOTTOM LOAD



D
5
VERTICAL CROSS SECTION
WET GLAZED BOTTOM LOAD

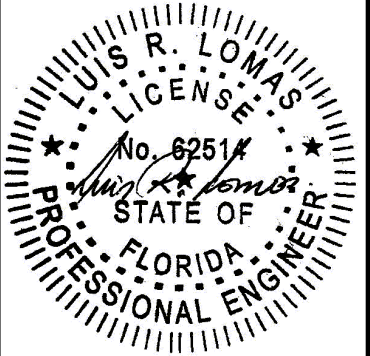
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31 ROBERTS RD
PINE GROVE, PA 17963

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NO POST INFOLD IMPACT
VERTICAL CROSS SECTIONS

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SCALE NTS	DATE 09/19/12	SHEET 5 OF 16

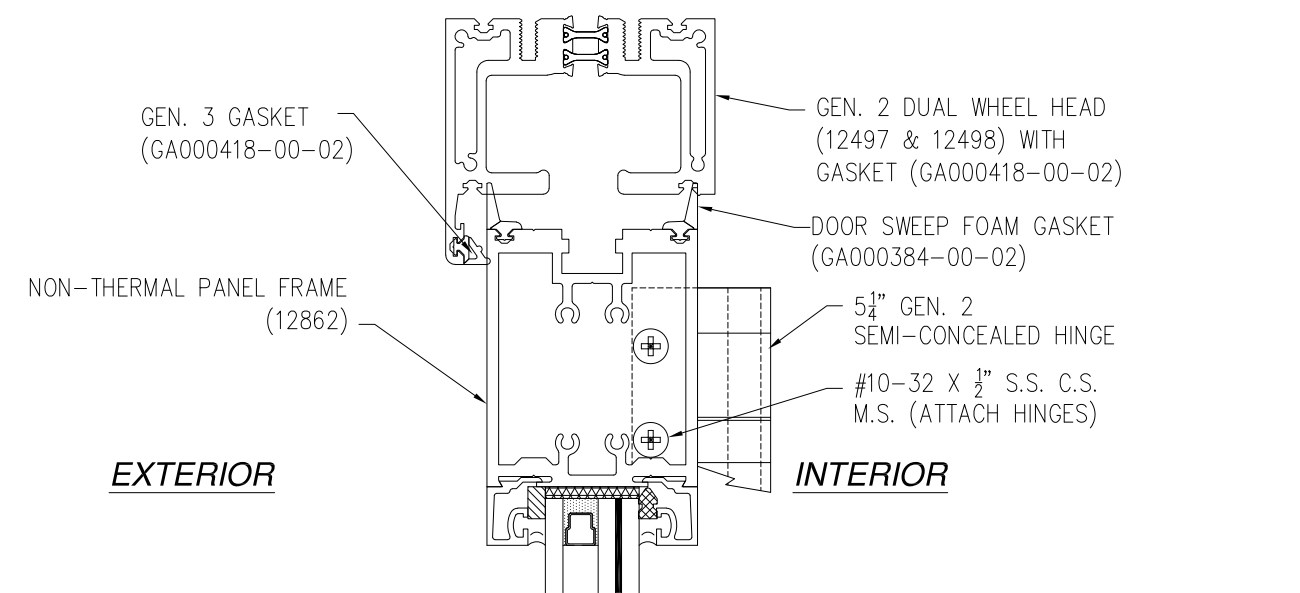
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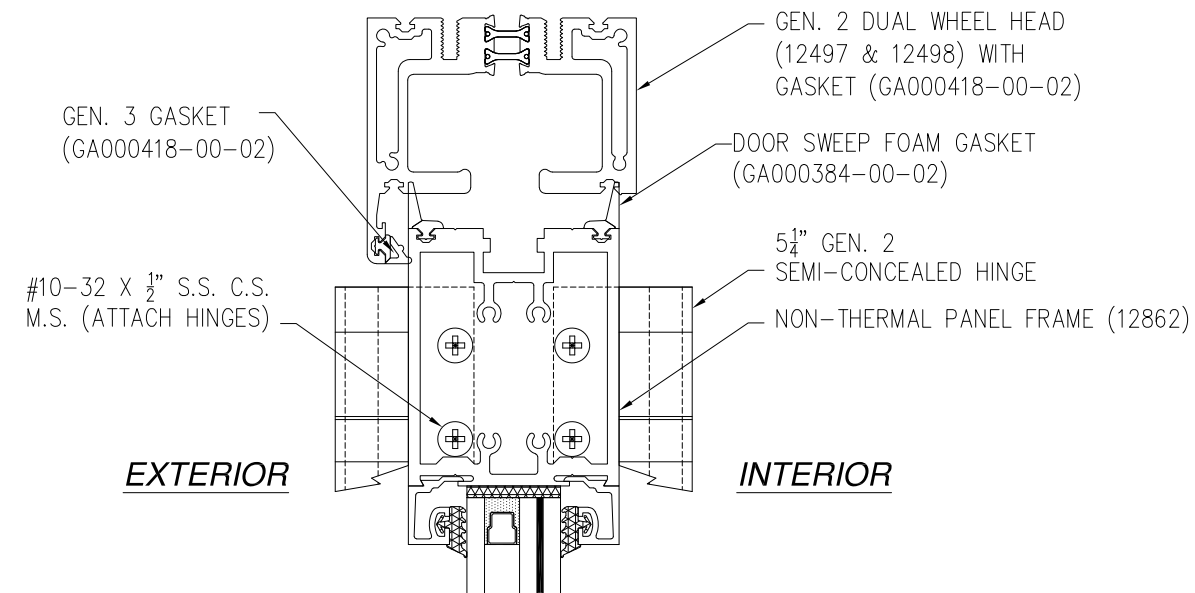
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A
6
VERTICAL CROSS SECTION
WET GLAZED
WITH NON-THERMAL PANEL



B
6
VERTICAL CROSS SECTION
DRY GLAZED
WITH NON-THERMAL PANEL

SOLAR INNOVATIONS, INC.

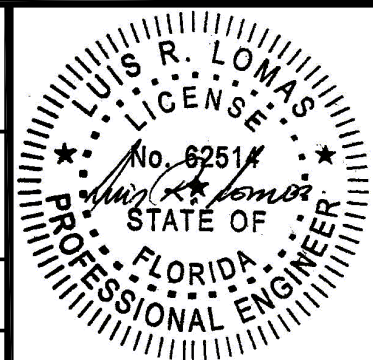
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VERTICAL CROSS SECTIONS

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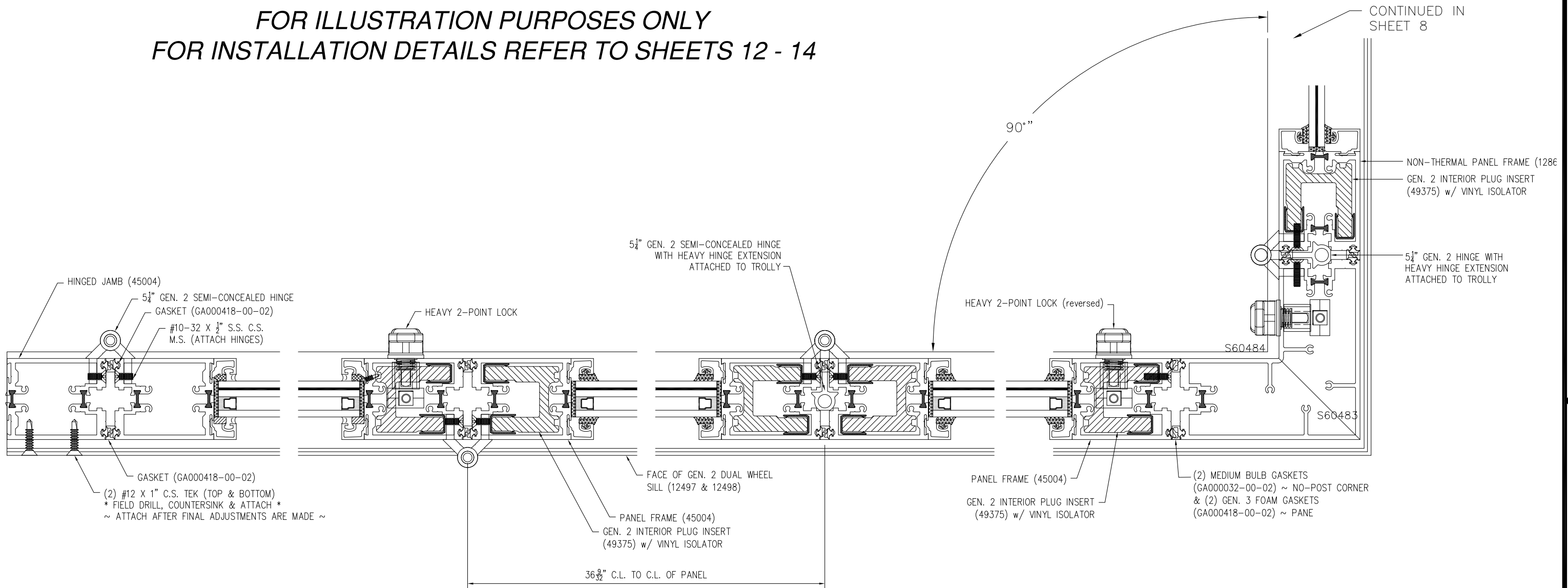
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E
7 HORIZONTAL CROSS SECTION

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31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 FGW 3X8 PANEL 90° CORNER

NO POST INFOLD IMPACT

HORIZONTAL CROSS SECTIONS (STANDARD PANEL)

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DWG NO. 08-01794F

REV F

SCALE NTS

DATE 09/19/12

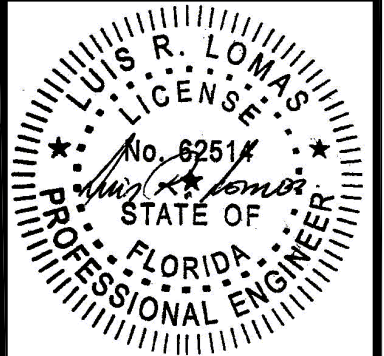
SHEET 7 OF 16

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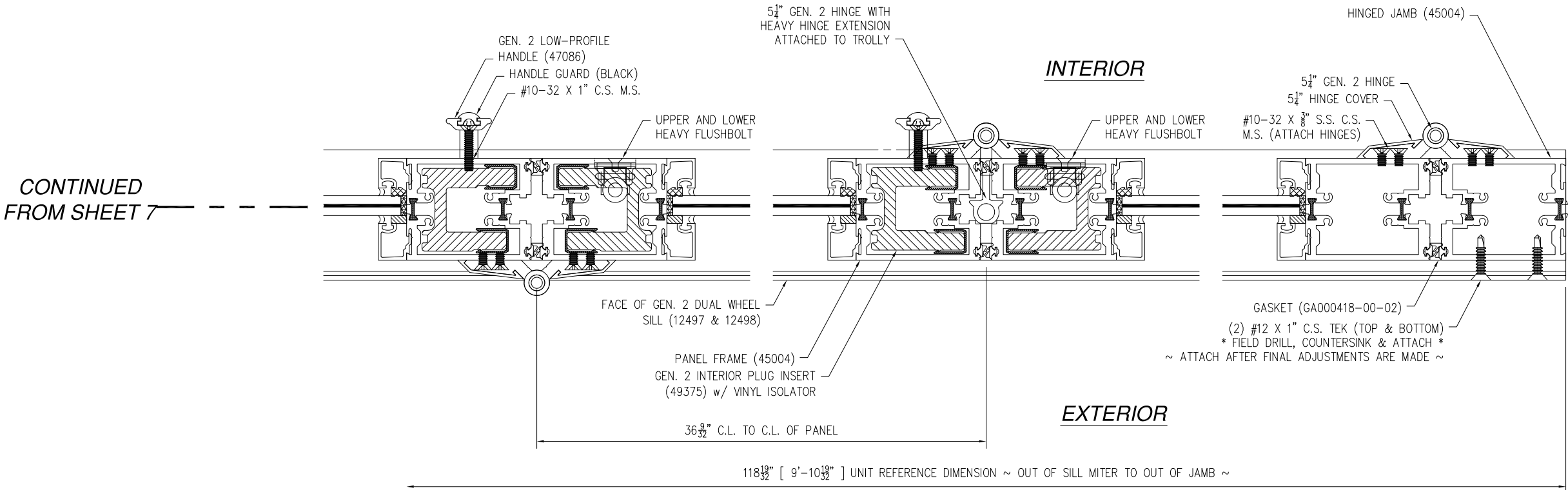
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E
8 **HORIZONTAL CROSS SECTION**

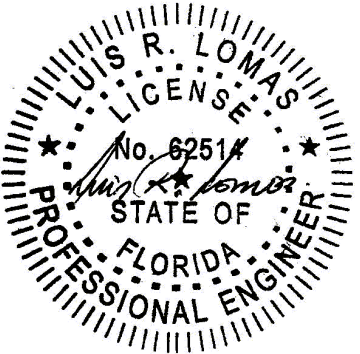
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PINE GROVE, PA 17963

SERIES SI3000 FGW 3X8 PANEL 90° CORNER
NO POST INFOLD IMPACT
HORIZONTAL CROSS SECTIONS (STANDARD PANEL)

DRAWN: R.L.	DWG NO. 08-01794F	REV F
SCALE NTS	DATE 09/19/12	SHEET 8 OF 16

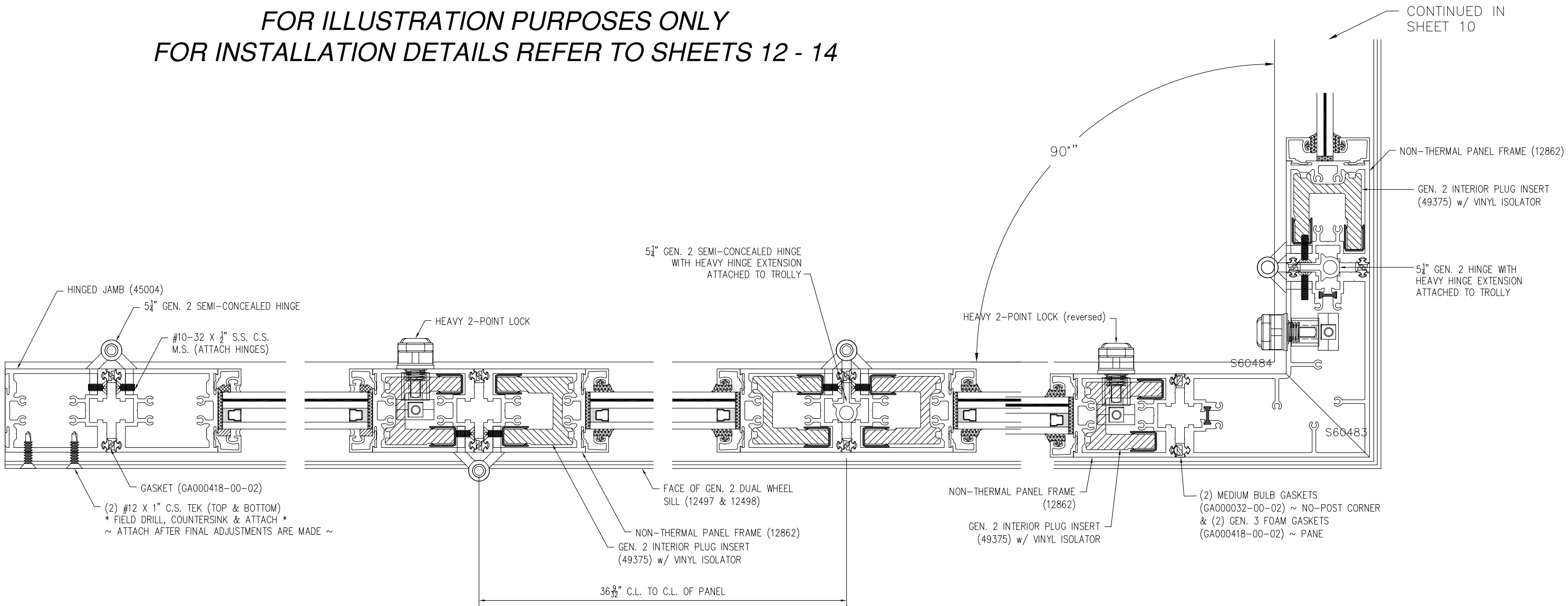
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E
9 HORIZONTAL CROSS SECTION
NON-THERMAL

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PINE GROVE, PA 17963

SERIES SI3000 FGW 3X8 PANEL 90° CORNER
NO POST INFOLD IMPACT
HORIZONTAL CROSS SECTION (NON-THERMAL PANEL)

DRAWN: R.L.

DWG NO. 08-01794F

REV F

SCALE NTS

DATE 09/19/12

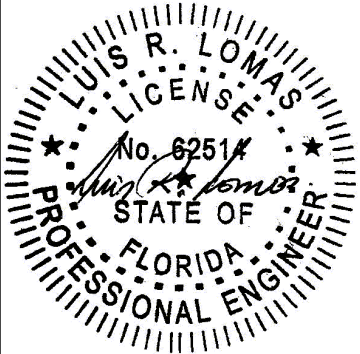
SHEET9 OF 16

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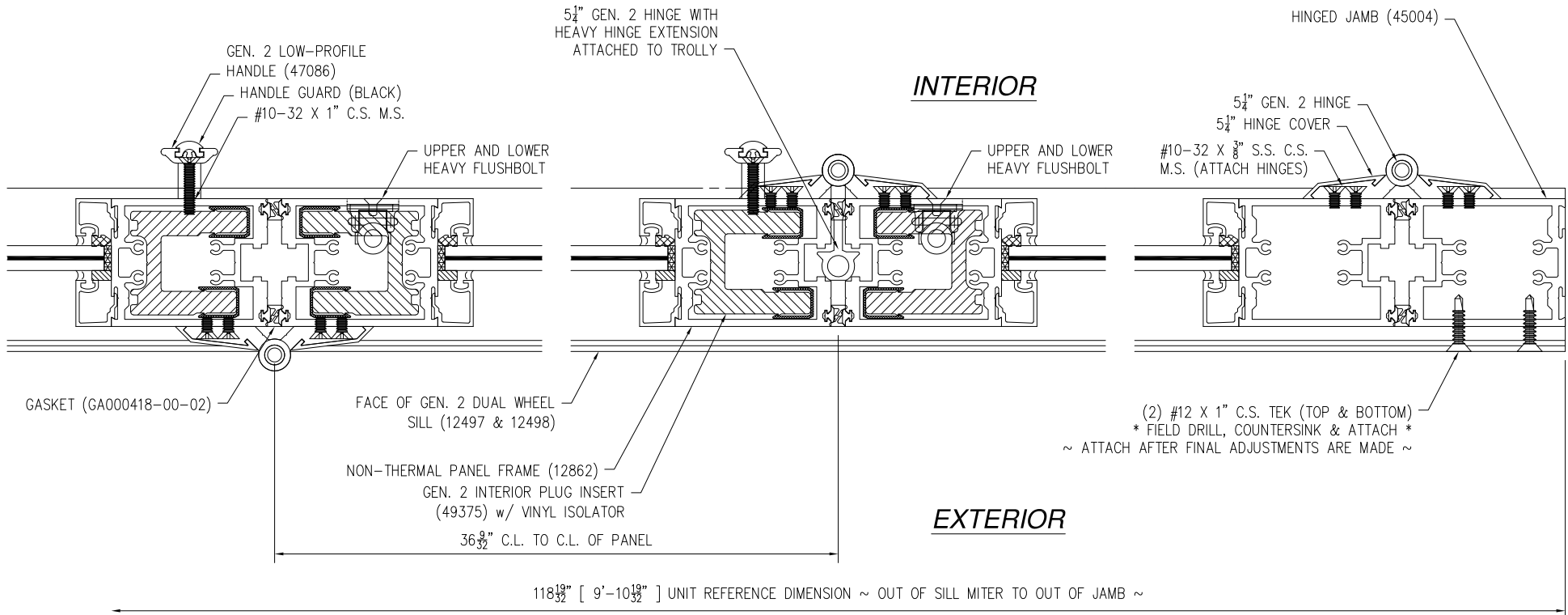


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CONTINUED
FROM SHEET 9



E
10 HORIZONTAL CROSS SECTION

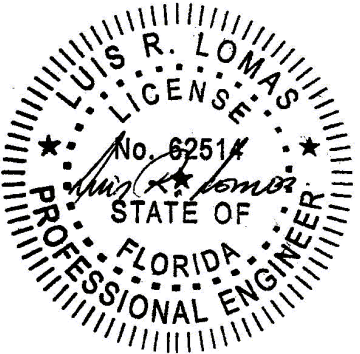
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HORIZONTAL CROSS SECTION (NON-THERMAL PANEL)

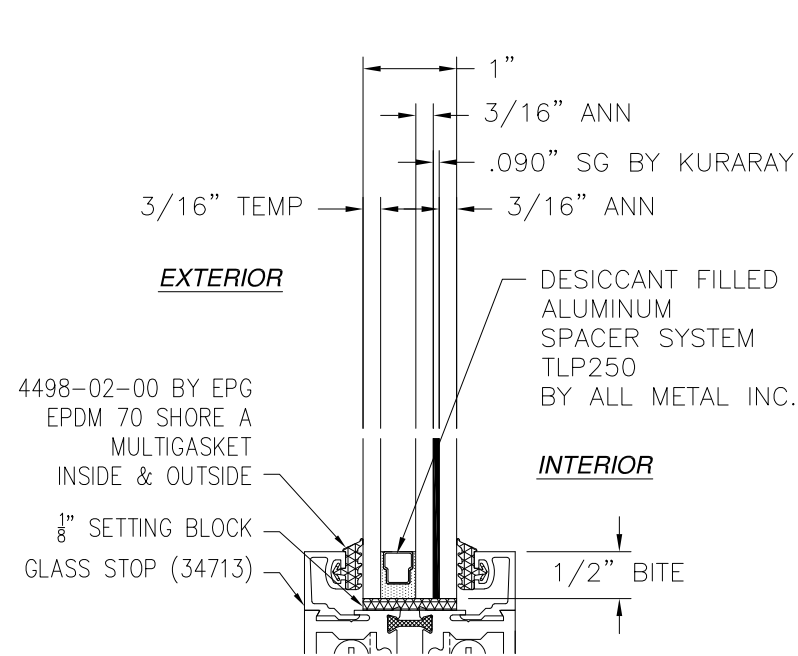
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SCALE NTS	DATE 09/19/12	SHEET 10 OF 16

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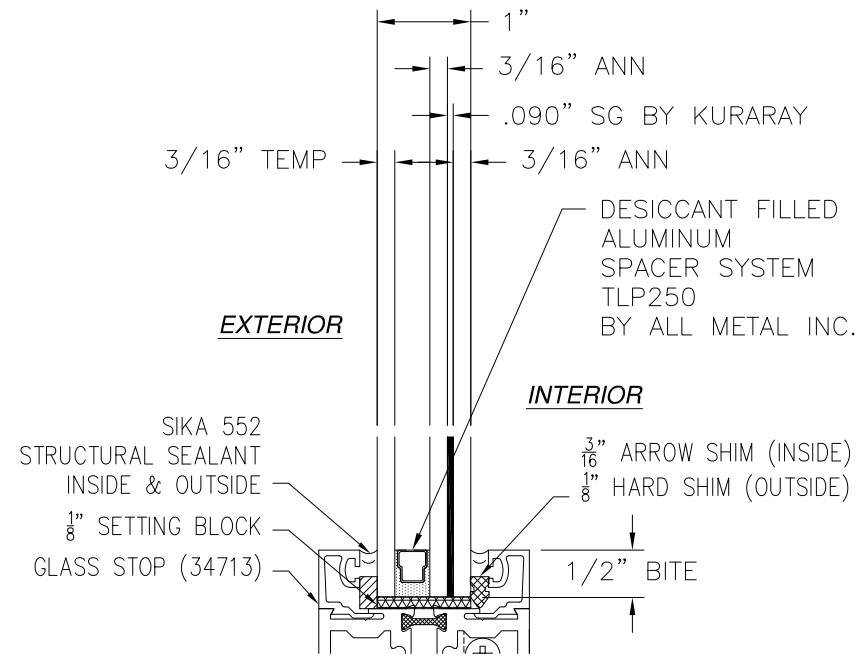


Luis R. Lomas P.E.
FL No.: 62514

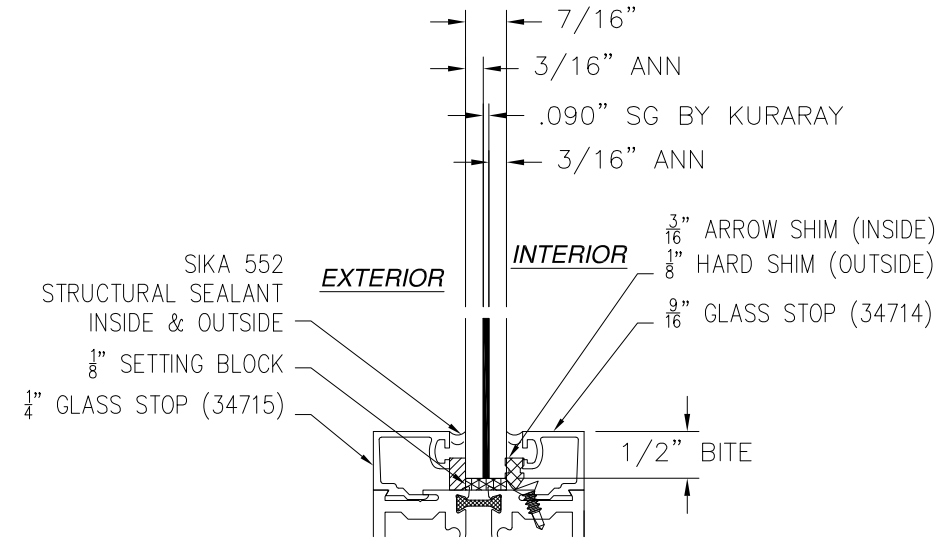
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/23	R.L.



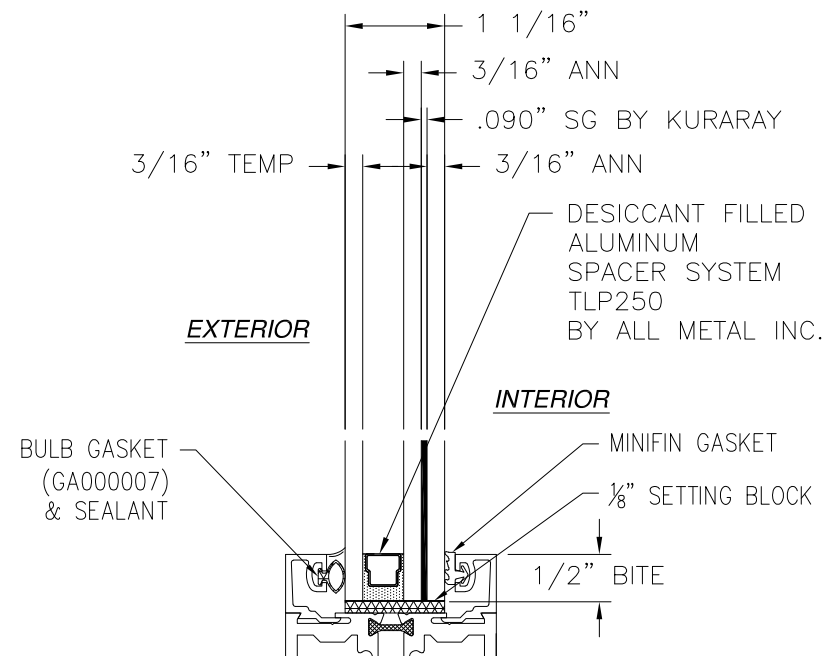
GLAZING A
DRY GLAZING



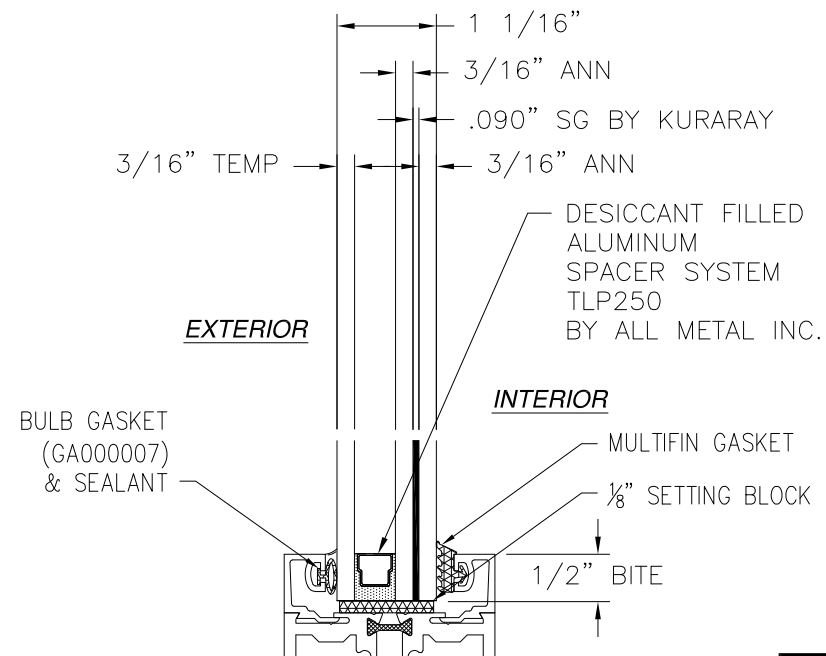
GLAZING B
WET GLAZING



GLAZING C
WET GLAZING



GLAZING D
BULB GASKET & MINIFIN GLAZING



GLAZING E
BULB GASKET & MULTIFIN GLAZING

SOLAR INNOVATIONS, INC.

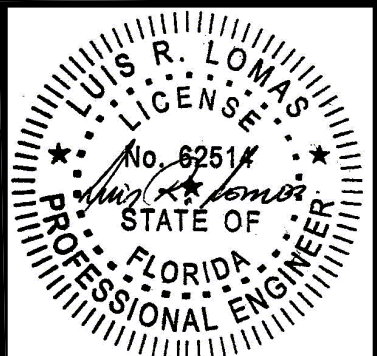
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 FGW 3X8 PANEL 90° CORNER
NO POST INFOLD IMPACT
GLAZING DETAILS

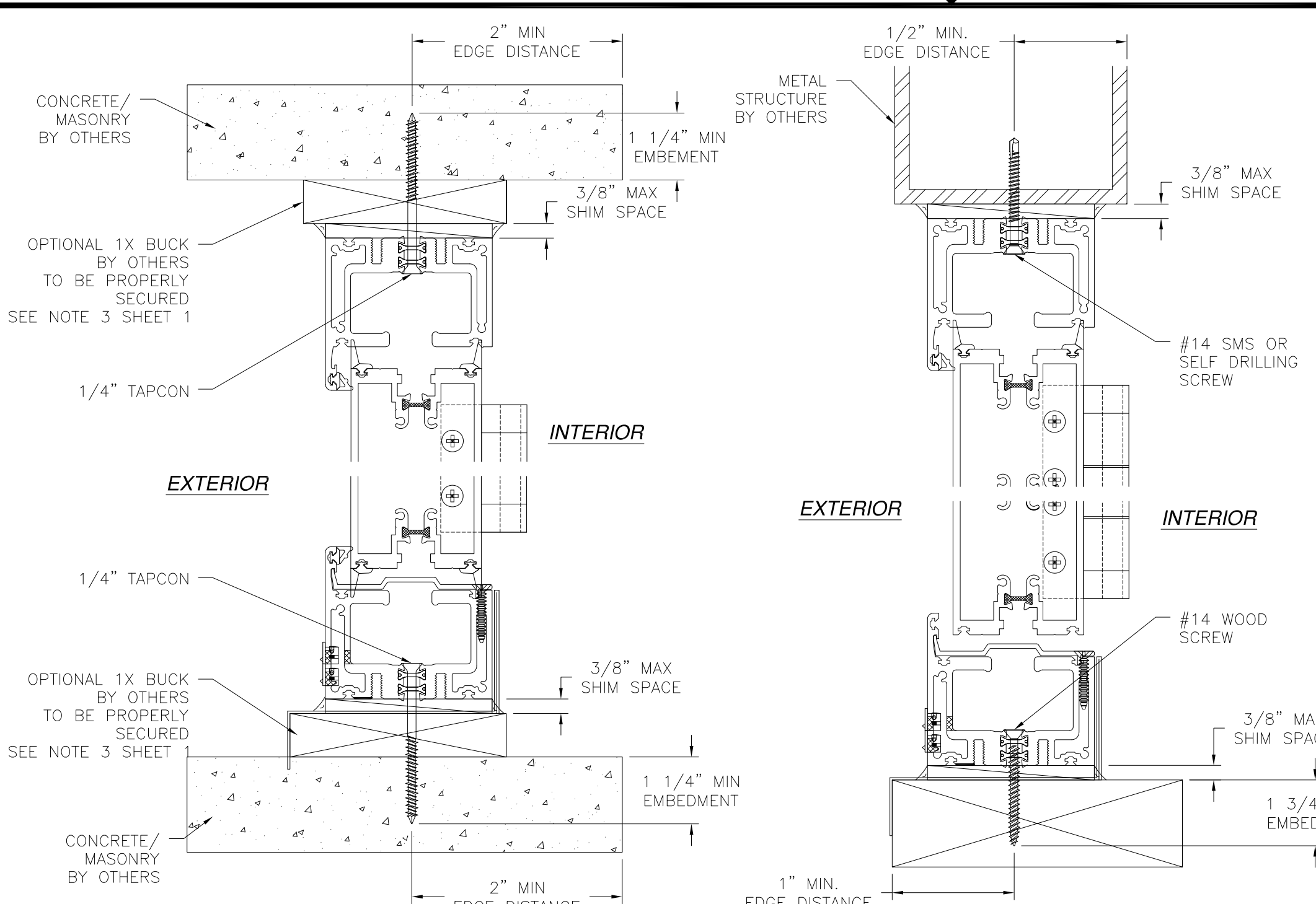
DRAWN: R.L.	DWG NO. 08-01794F	REV F
SCALE NTS	DATE 09/19/12	SHEET 11 OF 16

L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
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	12/01/23	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

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

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

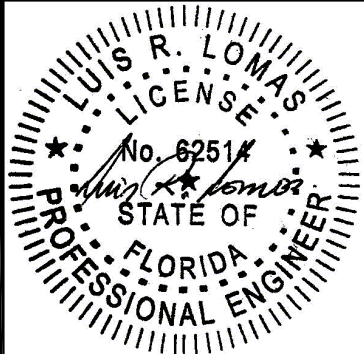
SOLAR INNOVATIONS, INC.
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 FGW 3X8 PANEL 90° CORNER
NO POST INFOLD IMPACT
INSTALLATION INSTRUCTIONS

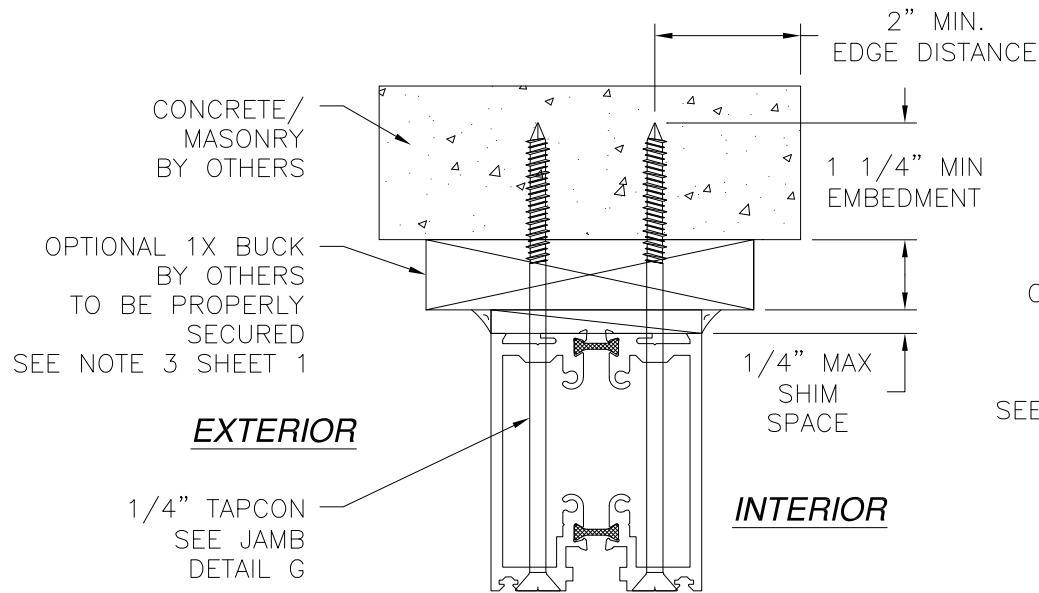
DRAWN: R.L.	DWG NO. 08-01794F	REV F
SCALE NTS	DATE 09/19/12	SHEET 12 OF 16

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1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

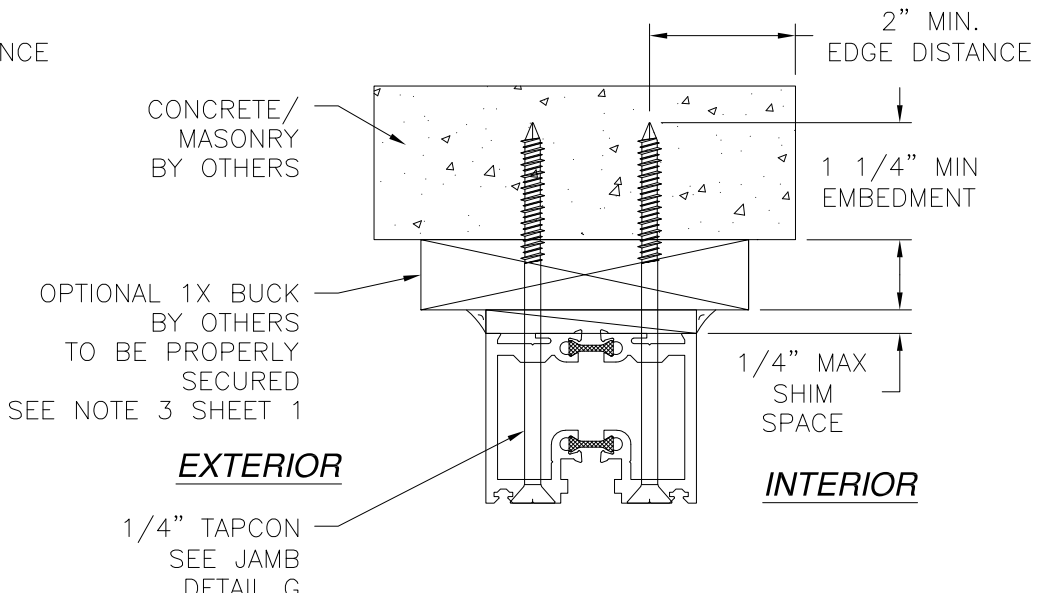
SIGNED: 12/12/2023



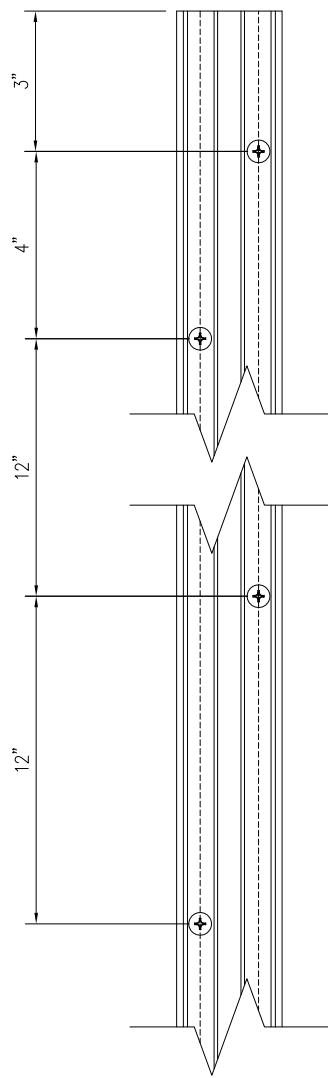
Luis R. Lomas P.E.
FL No.: 62514



JAMB INSTALLATION DETAIL
CONCRETE/MASONRY
S45004 NO REINFORCEMENT



JAMB INSTALLATION DETAIL
CONCRETE/MASONRY
S47543 NO REINFORCEMENT



JAMB INSTALLATION DETAIL G
JAMB WITHOUT REINFORCEMENT

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/23	R.L.

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

SERIES SI3000 FGW 3X8 PANEL 90° CORNER
NO POST INFOLD IMPACT
INSTALLATION INSTRUCTIONS

DRAWN:
R.L.

DWG NO.
08-01794F

REV
F

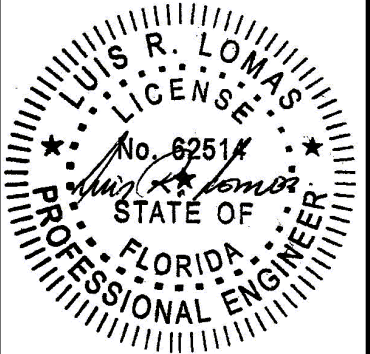
SCALE NTS

DATE 09/19/12

SHEET 13 OF 16

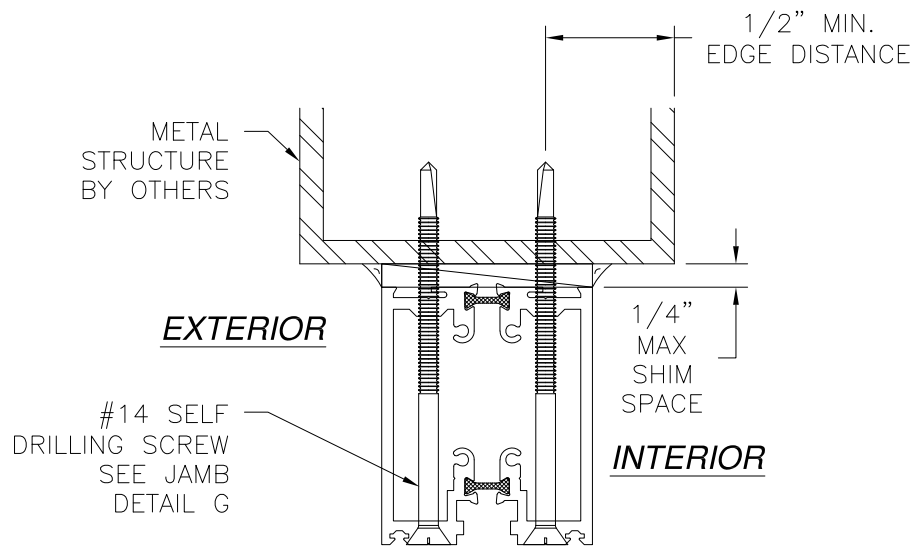
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

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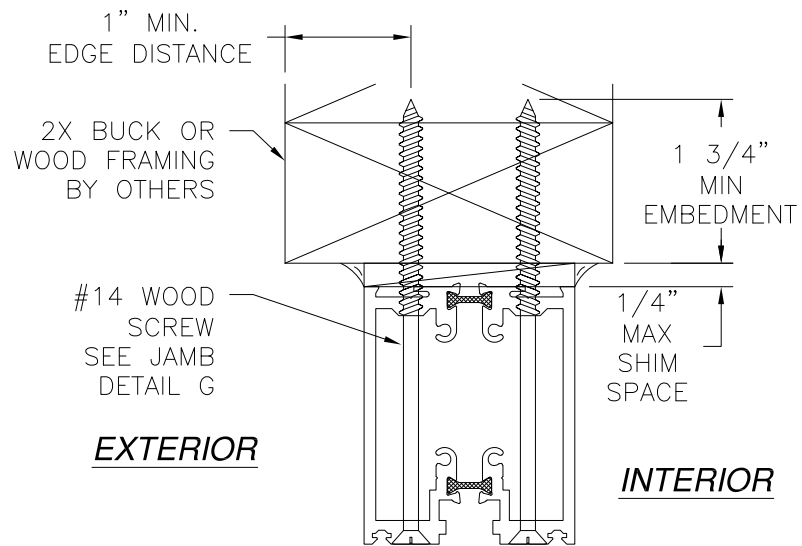


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FL No.: 62514

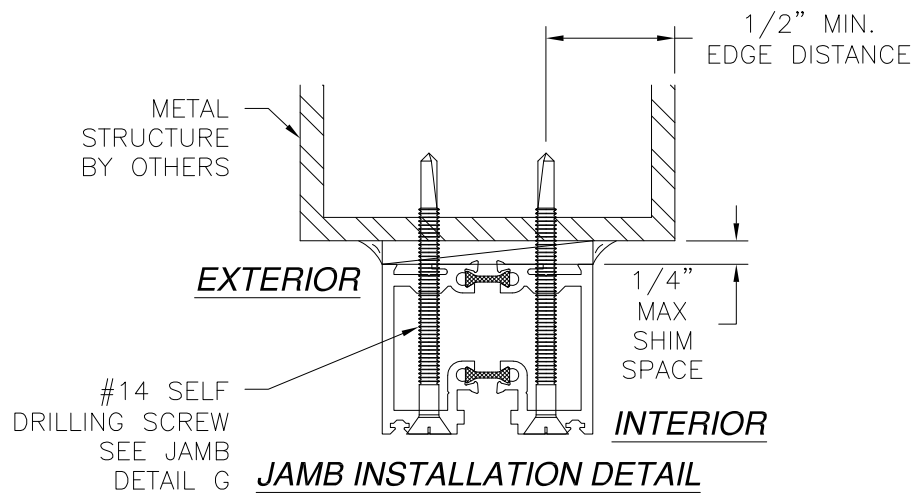
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REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/23	R.L.



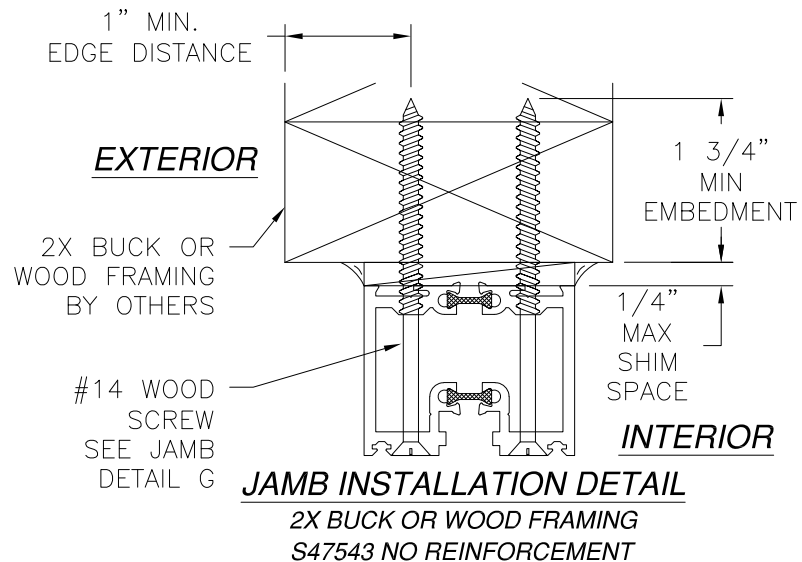
JAMB INSTALLATION DETAIL
METAL STRUCTURE
S45004 NO REINFORCEMENT



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

NOTES:

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SIGNED: 12/12/2023

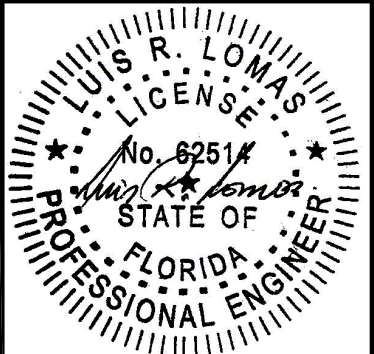
SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 FGW 3X8 PANEL 90° CORNER
NO POST INFOLD IMPACT
INSTALLATION INSTRUCTIONS

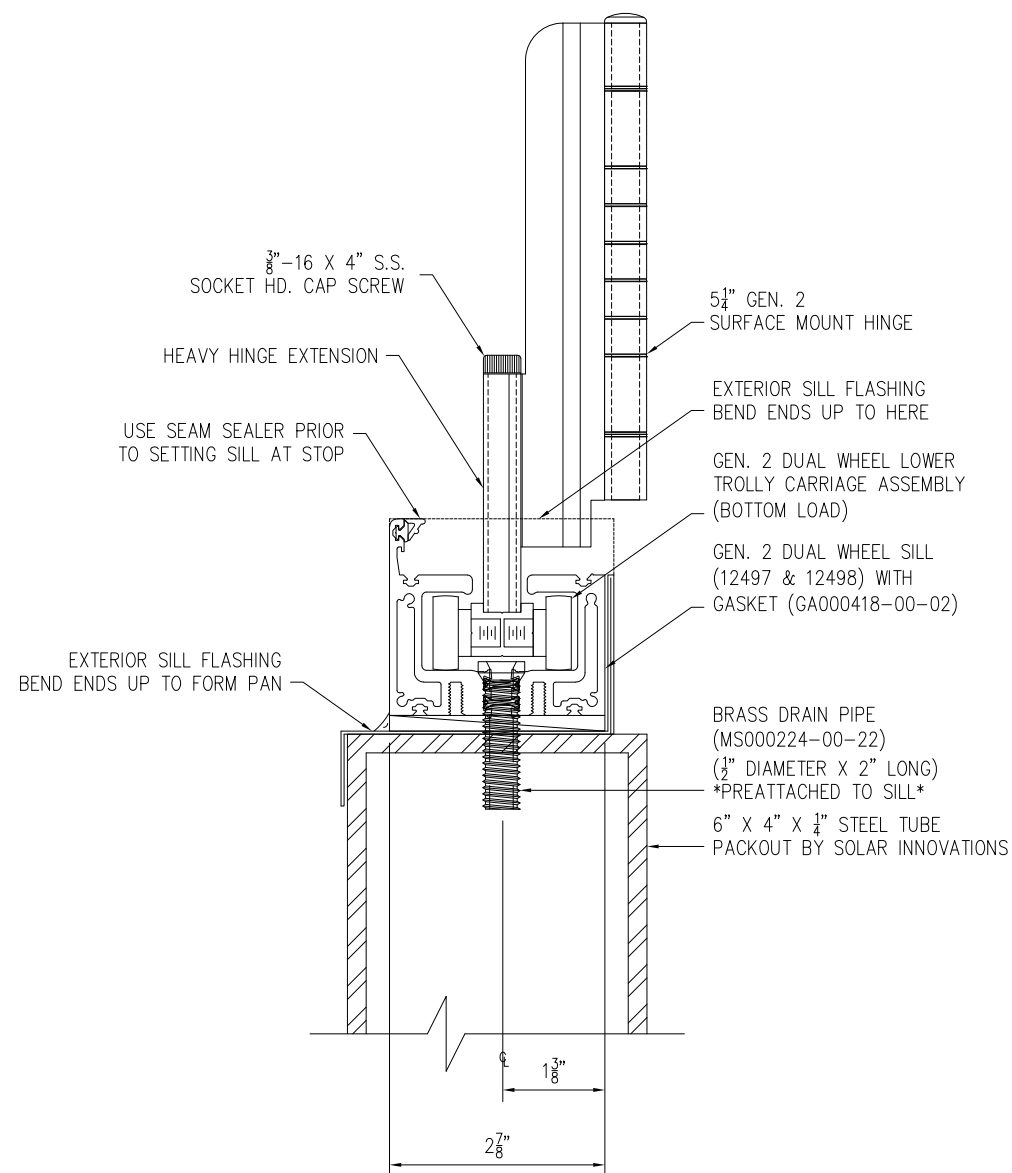
DRAWN: R.L.	DWG NO. 08-01794F	REV F
SCALE NTS	DATE 09/19/12	SHEET 14 OF 16

L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

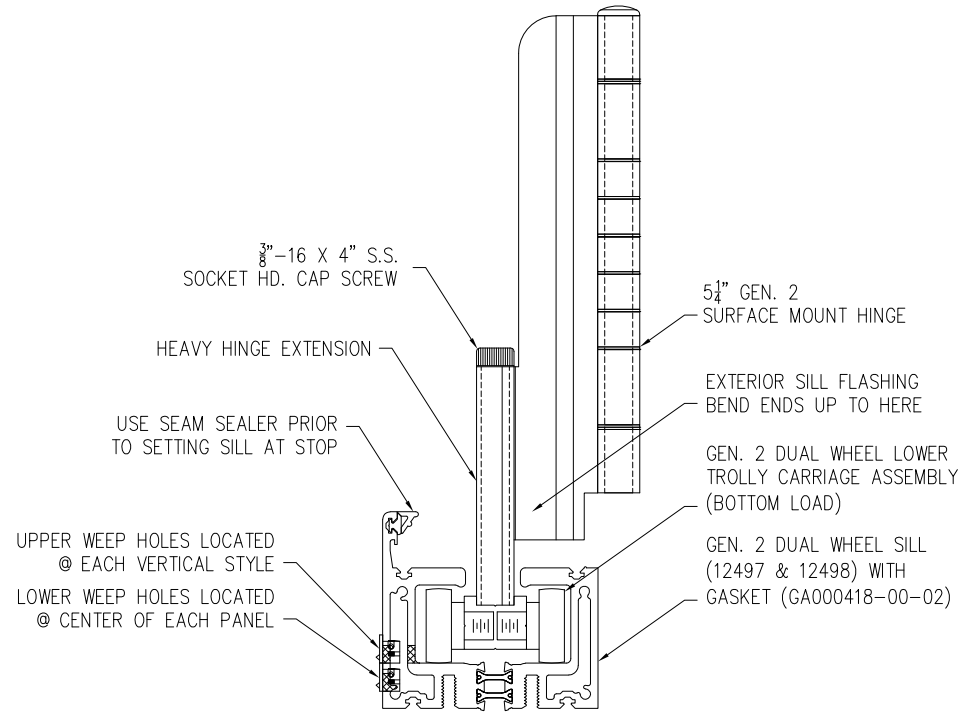


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FL No.: 62514

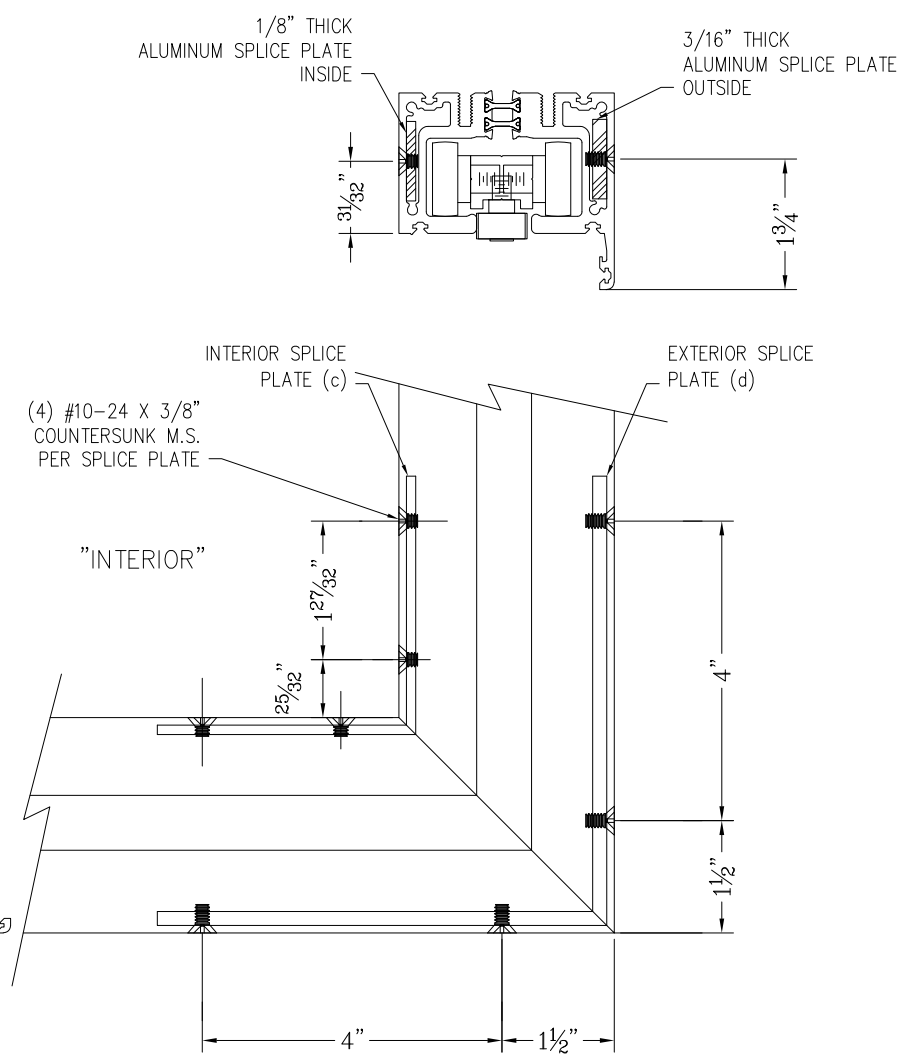
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/23	R.L.



**DRAIN PIPE AND HINGE EXTENSION
DETAIL**



**WEEP HOLE AND HINGE EXTENSION
DETAIL**



**SPLICE PLATES INSTALLATION
DETAIL**

SIGNED: 12/12/2023

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31 ROBERTS RD
PINE GROVE, PA 17963

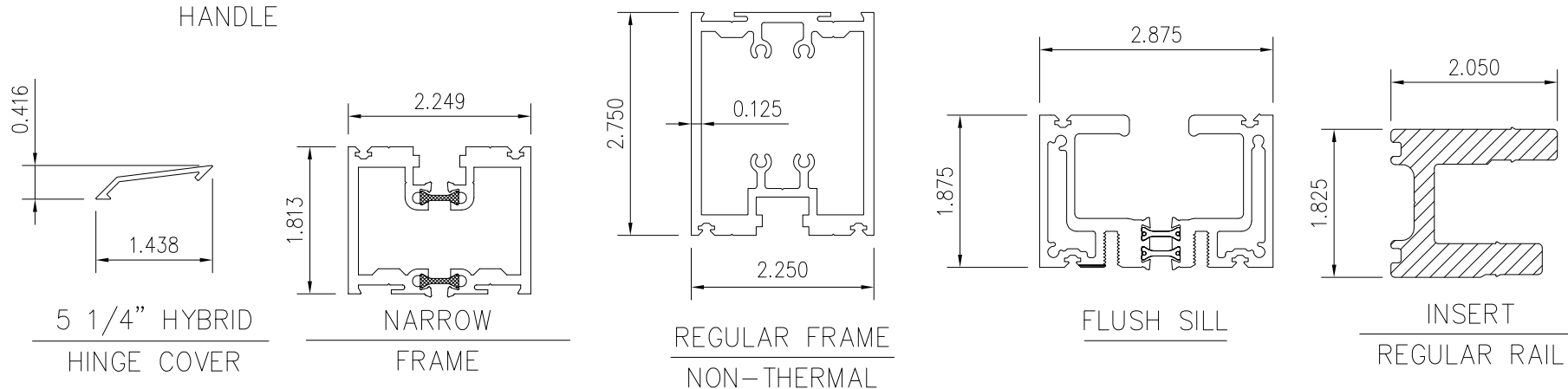
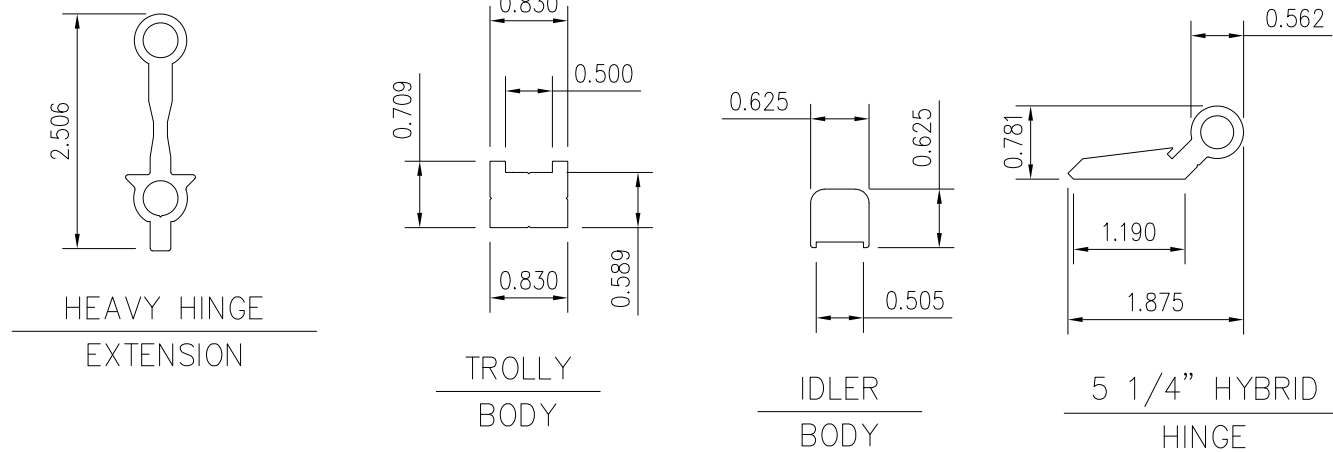
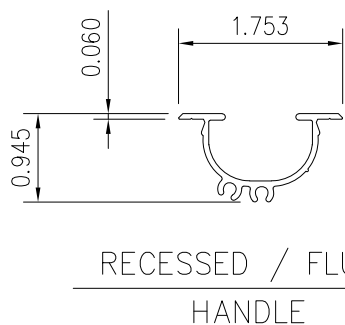
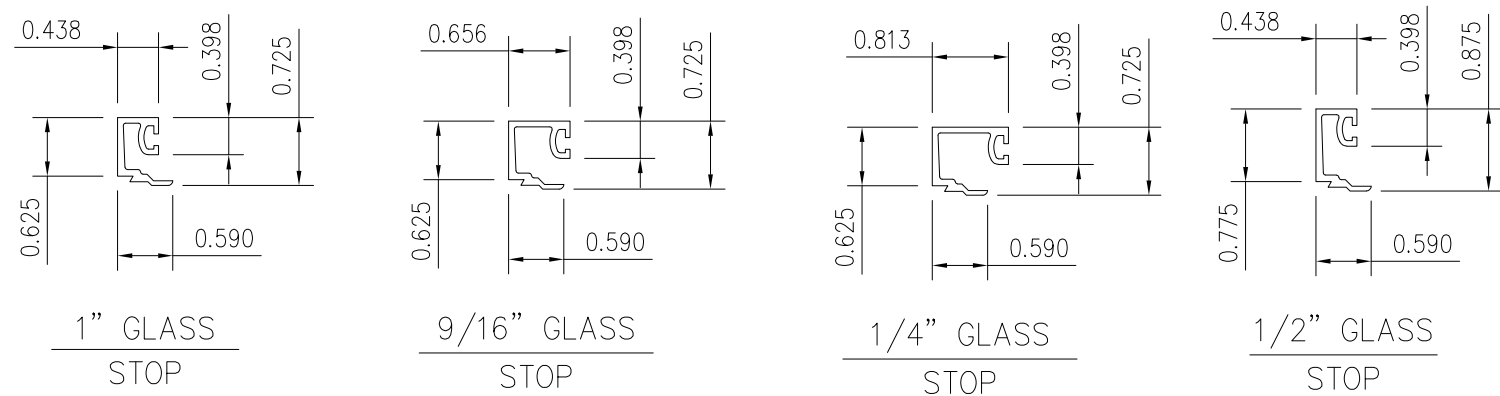
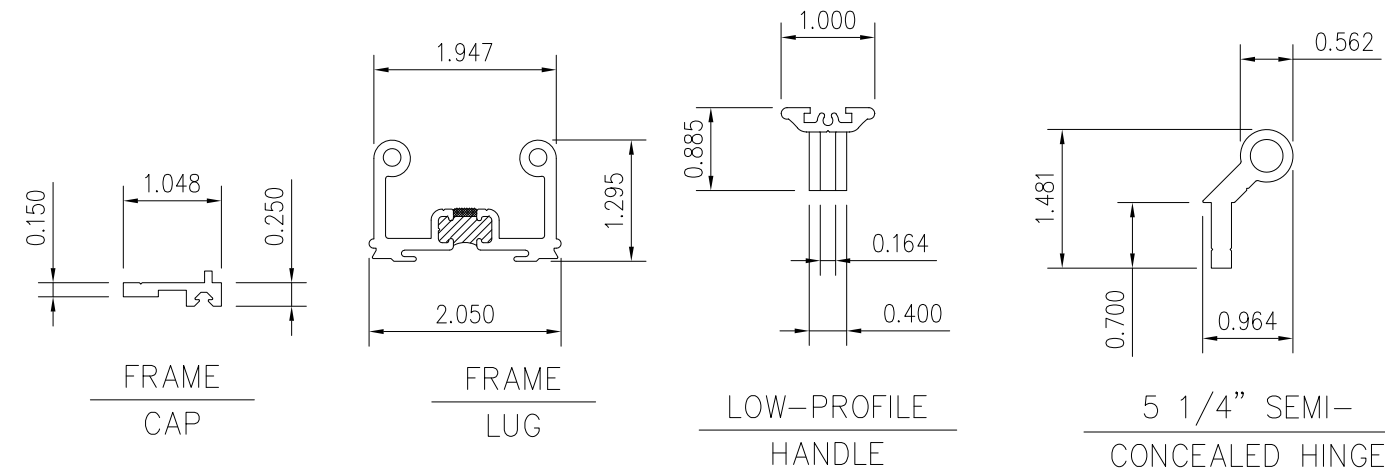
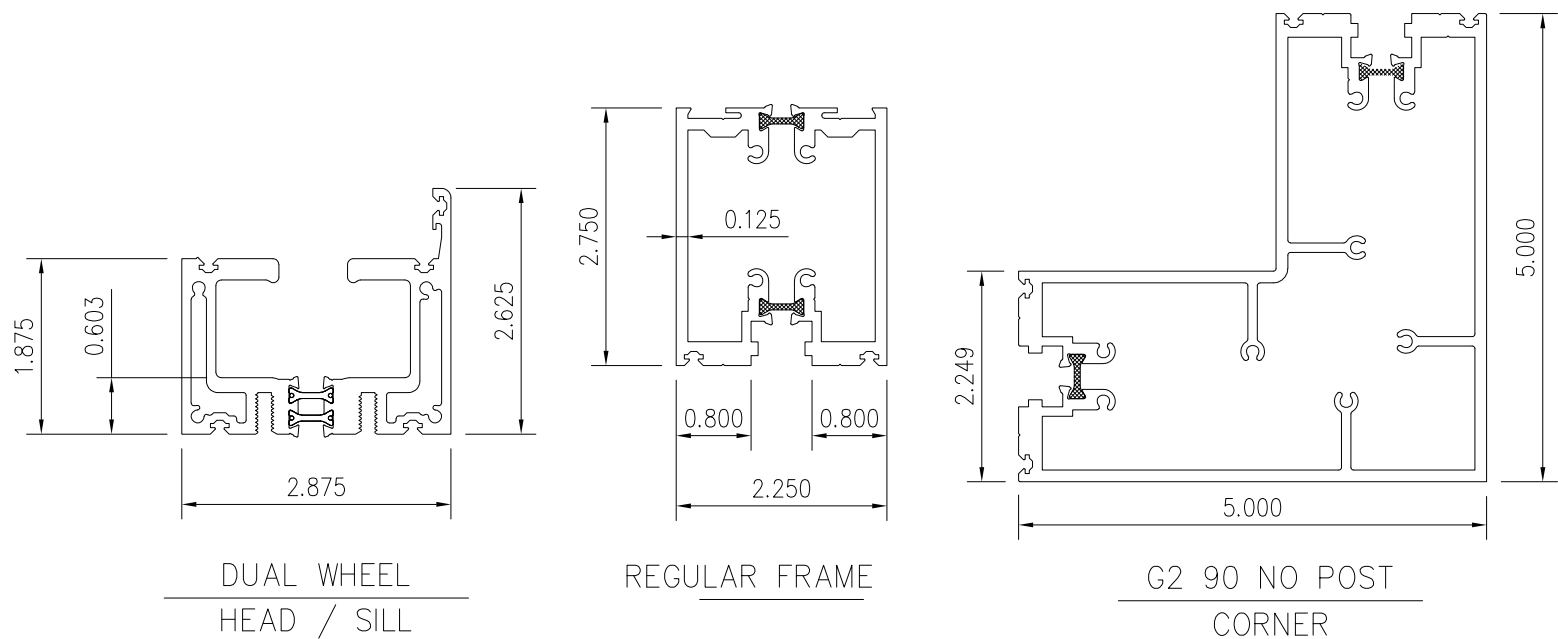
SERIES SI3000 FGW 3X8 PANEL 90° CORNER
NO POST INFOLD IMPACT
WEEP DETAILS

DRAWN: R.L.	DWG NO. 08-01794F	REV F
SCALE NTS	DATE 09/19/12	SHEET 15 OF 16

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

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



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/23	R.L.

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

SERIES SI3000 FGW 3X8 PANEL 90° CORNER
NO POST INFOLD IMPACT
COMPONENTS

DRAWN:
R.L.

DWG NO.
08-01794F

REV
F

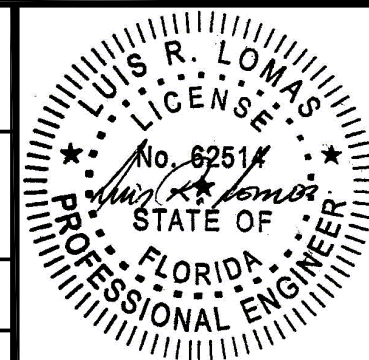
SCALE
NTS

DATE
09/19/12

SHEET
116 OF 16

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