

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED PER NEW REQUIREMENTS	12/06/2023	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 4 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 1/8" THICK MINIMUM

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

SERIES SI3000 IMPACT FGW 3.5 X 9.5 PANEL
STANDARD IN-FOLD ALUMINUM
NOTES

DRAWN:
V.L.

DWG NO.
08-01859

REV
F

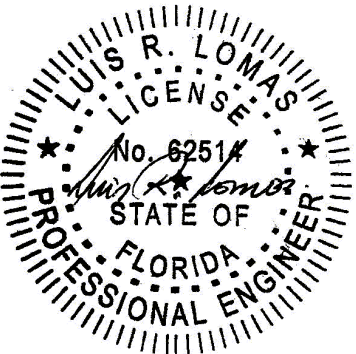
SCALE NTS

DATE 12/05/12

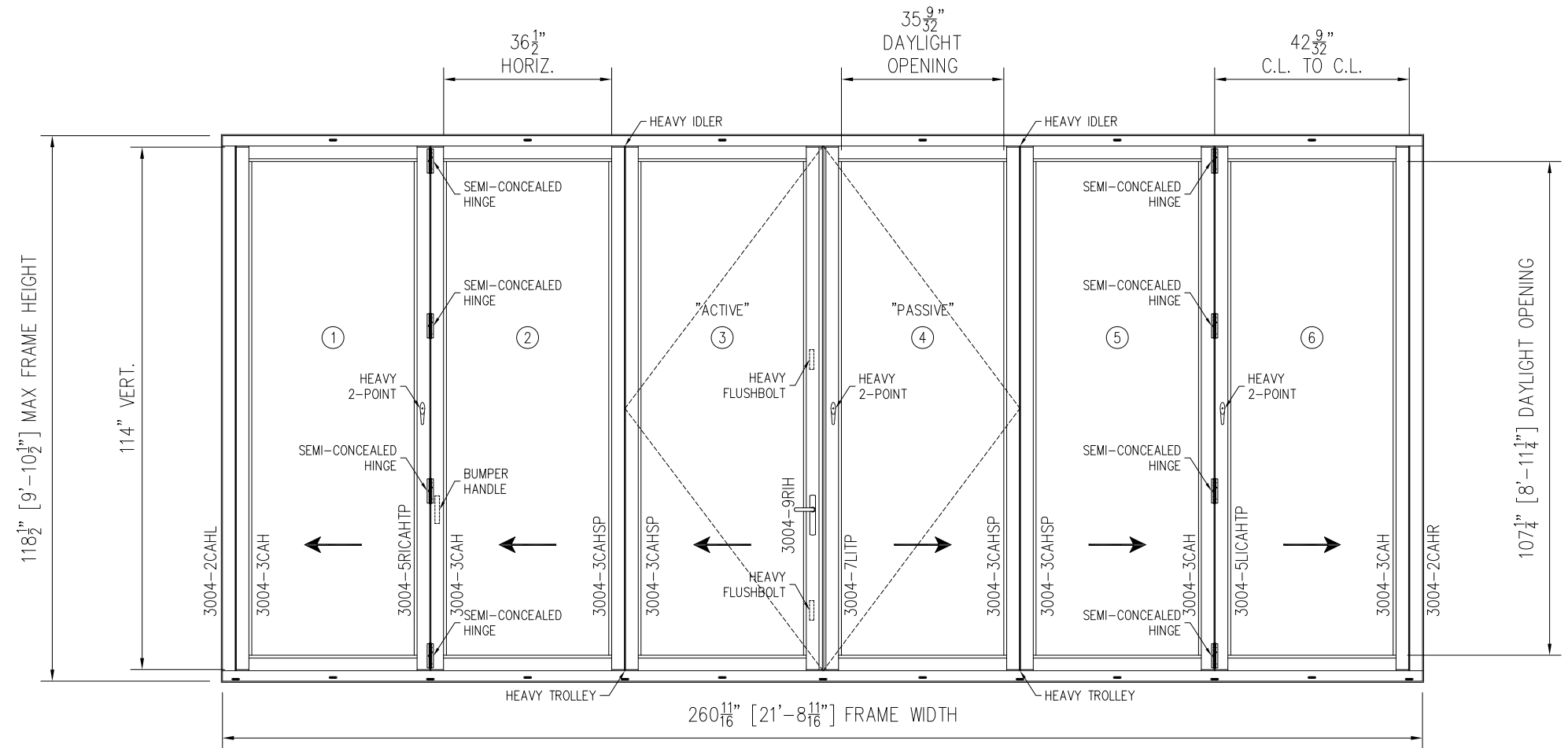
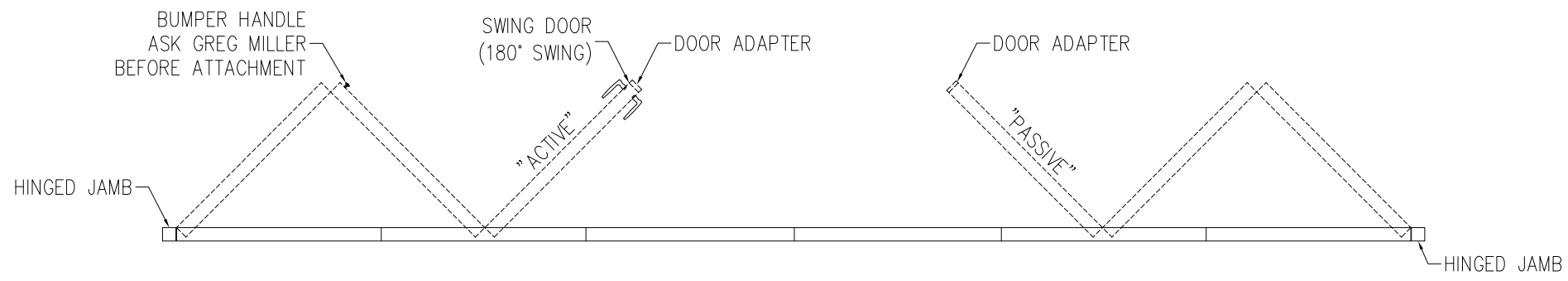
SHEET 1 OF 13

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



SERIES SI3000 IMPACT FGW 3.5 X 9.5 PANEL
EXTERIOR VIEW

UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATION ARE APPROVED
AS LONG AS INDIVIDUAL PANEL SIZE DOES NOT EXCEED MAXIMUM PANEL AREA OF 33.3 FT² USES VERTICAL
CONDITIONS AS SHOWN AND DOES NOT EXCEED A FRAME AREA OF 321.8 FT².

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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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 SHEET 3

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 SHEET 3

DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE AND SMALL MISSILE IMPACT

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

DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE AND SMALL MISSILE IMPACT

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

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

SERIES SI3000 IMPACT FGW 3.5 X 9.5 PANEL
STANDARD IN-FOLD ALUMINUM
ELEVATION

DRAWN: V.L.	DWG NO. 08-01859	REV F
SCALE NTS	DATE 12/05/12	SHEET 2 OF 13

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

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

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Chart #1

Maximum Design pressure (psf)										
Panel Height (in)	Single Panel Width (in)									
	24.0		30.0		36.0		42.28		48.0	
	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	60.0	80.0	60.0	80.0
90.0	60.0	80.0	60.0	80.0	60.0	80.0	60.0	80.0	60.0	78.1
96.0	60.0	80.0	60.0	80.0	60.0	80.0	60.0	80.0	60.0	73.2
102.0	60.0	80.0	60.0	80.0	60.0	80.0	60.0	78.2	-	-
108.0	60.0	80.0	60.0	80.0	60.0	80.0	60.0	73.9	-	-
114.0	60.0	80.0	60.0	80.0	60.0	79.5	60.0	70.0	-	-
120.0	60.0	80.0	60.0	80.0	60.0	69.1	-	-	-	-
126.0	60.0	80.0	60.0	70.7	59.5	59.5	-	-	-	-
132.0	60.0	76.1	60.0	61.4	51.6	51.6	-	-	-	-
138.0	60.0	66.6	53.6	53.6	-	-	-	-	-	-
144.0	58.5	58.5	47.1	47.1	-	-	-	-	-	-
150.0	51.7	51.7	41.6	41.6	-	-	-	-	-	-
156.0	45.9	45.9	37.0	37.0	-	-	-	-	-	-

Chart #2

Maximum Design pressure (psf)										
Panel Height (in)	Single Panel Width (in)									
	24.0		30.0		36.0		42.28		48.0	
	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	80.0	80.0	80.0	80.0
90.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	78.1	78.1
96.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	73.2	73.2
102.0	80.0	80.0	80.0	80.0	80.0	80.0	78.2	78.2	-	-
108.0	80.0	80.0	80.0	80.0	80.0	80.0	73.9	73.9	-	-
114.0	80.0	80.0	80.0	80.0	79.5	79.5	70.0	70.0	-	-
120.0	80.0	80.0	80.0	80.0	69.1	69.1	-	-	-	-
126.0	80.0	80.0	70.7	70.7	59.5	59.5	-	-	-	-
132.0	76.1	76.1	61.4	61.4	51.6	51.6	-	-	-	-
138.0	66.6	66.6	53.6	53.6	-	-	-	-	-	-
144.0	58.5	58.5	47.1	47.1	-	-	-	-	-	-
150.0	51.7	51.7	41.6	41.6	-	-	-	-	-	-
156.0	45.9	45.9	37.0	37.0	-	-	-	-	-	-

Chart #3

Maximum Design pressure (psf)											
Panel Height (in)	Single Panel Width (in)										
	24.0		30.0		36.0		42.28		48.0		
	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	70.8	
84.0	60.0	80.0	60.0	80.0	60.0	80.0	60.0	74.6	60.0	65.7	
90.0	60.0	80.0	60.0	80.0	60.0	80.0	60.0	69.7	60.0	61.4	
96.0	60.0	80.0	60.0	80.0	60.0	76.7	60.0	65.3	57.5	57.5	
102.0	60.0	80.0	60.0	80.0	60.0	71.4	60.0	61.5	-	-	
108.0	60.0	80.0	60.0	77.4	60.0	66.6	58.1	58.1	-	-	
114.0	60.0	80.0	60.0	72.7	60.0	62.5	55.0	55.0	-	-	
120.0	60.0	79.8	60.0	64.5	54.3	54.3	-	-	-	-	
126.0	60.0	68.9	55.5	55.5	46.8	46.8	-	-	-	-	
132.0	59.8	59.8	48.2	48.2	40.5	40.5	-	-	-	-	
138.0	52.3	52.3	42.1	42.1	-	-	-	-	-	-	
144.0	46.0	46.0	37.0	37.0	-	-	-	-	-	-	
150.0	40.6	40.6	32.7	32.7	-	-	-	-	-	-	
156.0	36.1	36.1	29.0	29.0	-	-	-	-	-	-	

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

SERIES SI3000 IMPACT FGW 3.5 X 9.5 PANEL
STANDARD IN-FOLD ALUMINUM
CHARTS

DRAWN:
V.L.

DWG NO.
08-01859

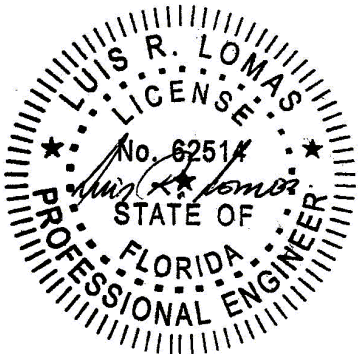
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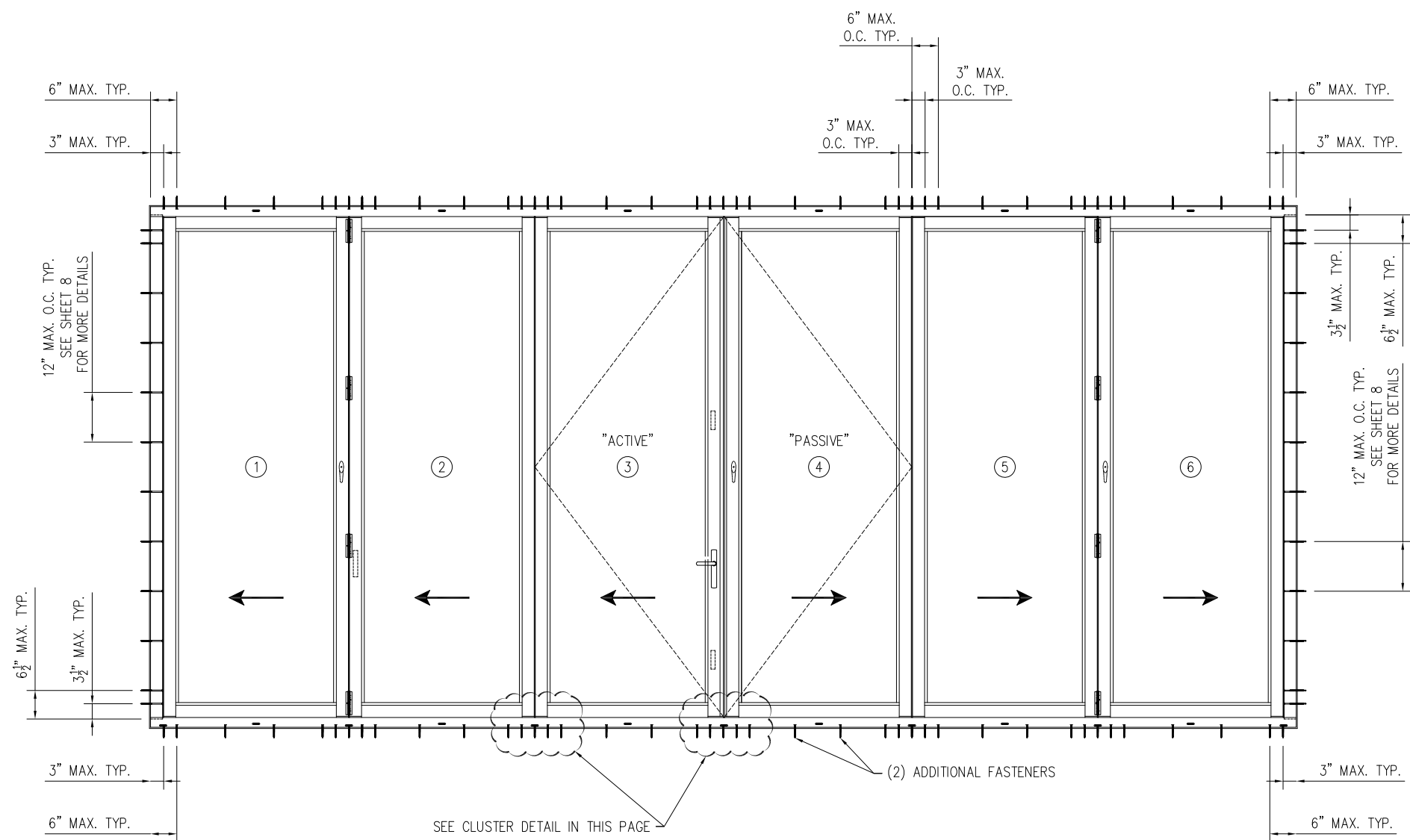
DATE 12/05/12

SHEET 3 OF 13

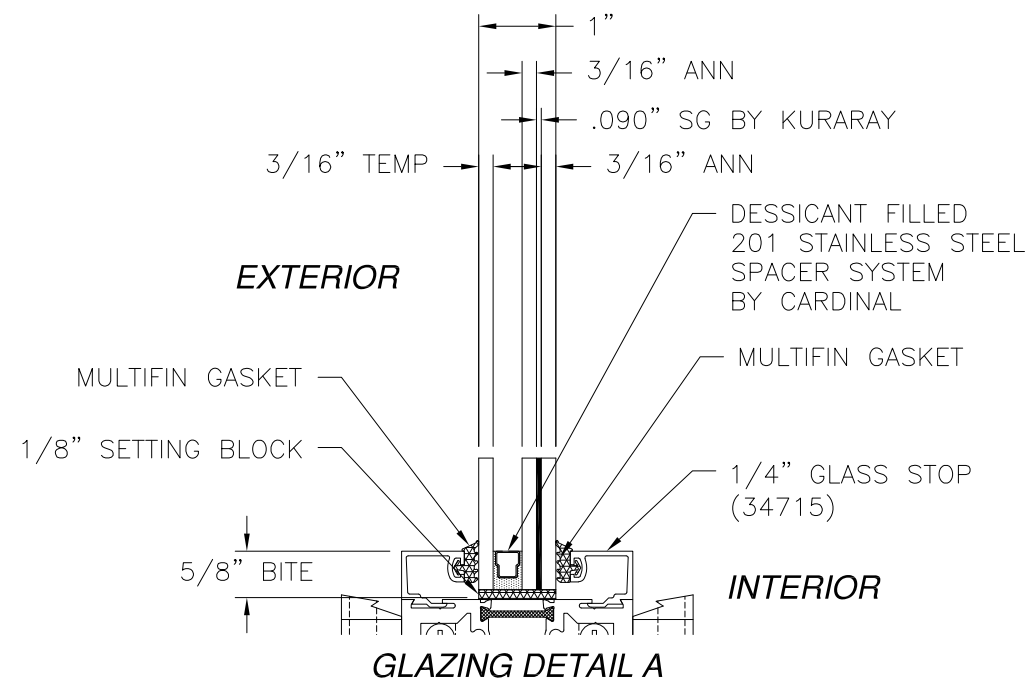
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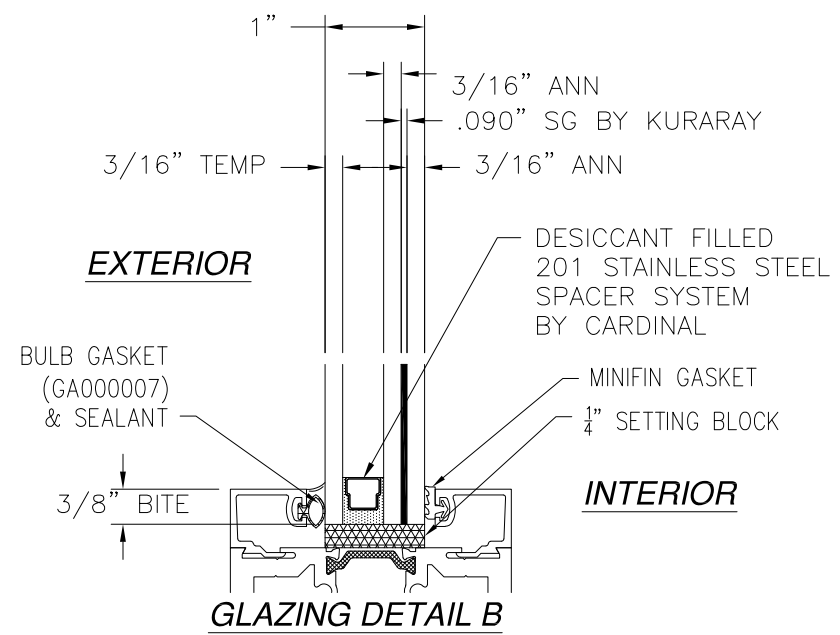
Luis R. Lomas P.E.
FL No.: 62514



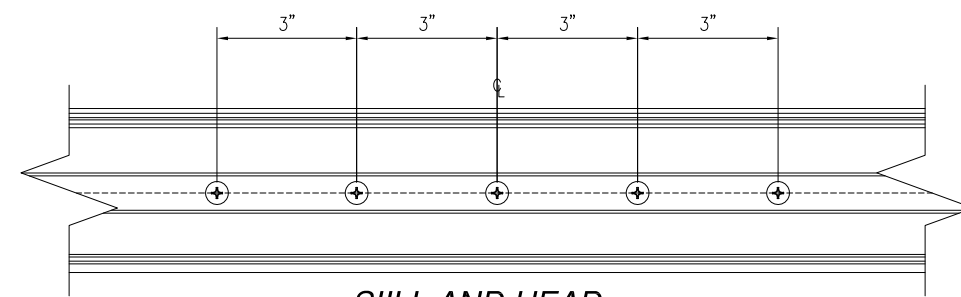
ANCHOR LAYOUT
APPLICABLE TO ALL CONFIGURATION



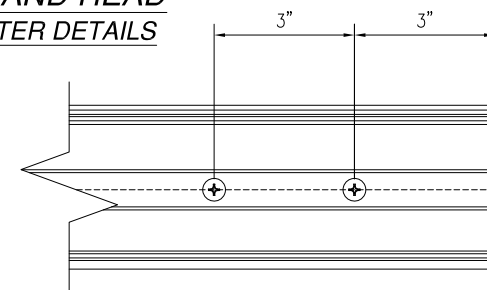
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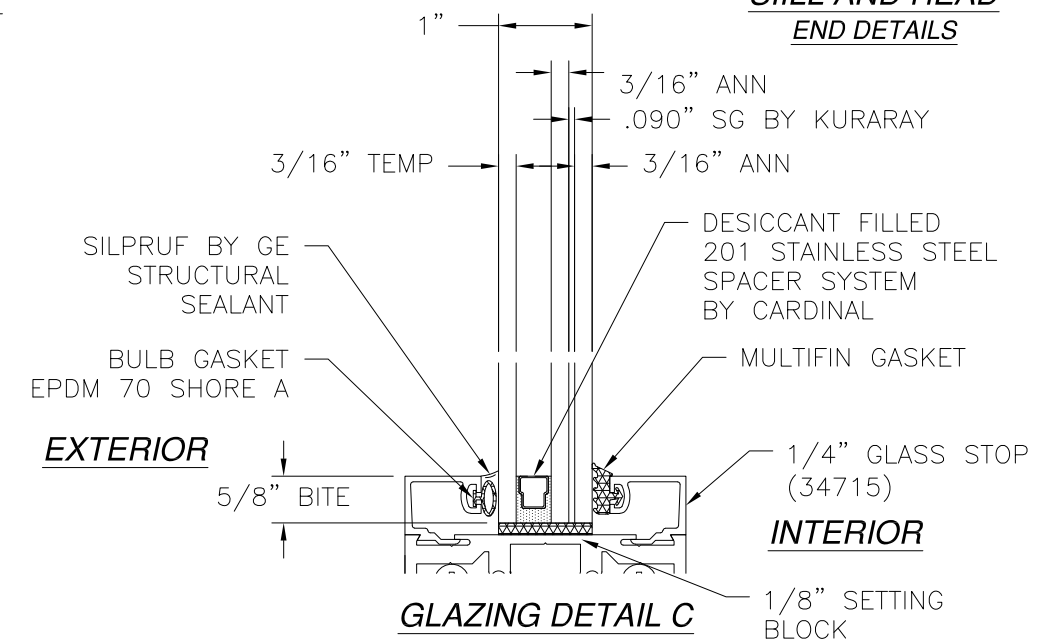
GLAZING DETAIL B



**SIILL AND HEAD
CLUSTER DETAILS**



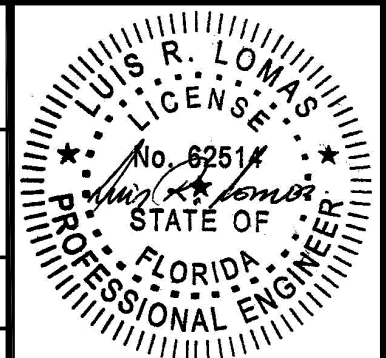
**SIILL AND HEAD
END DETAILS**



GLAZING DETAIL C

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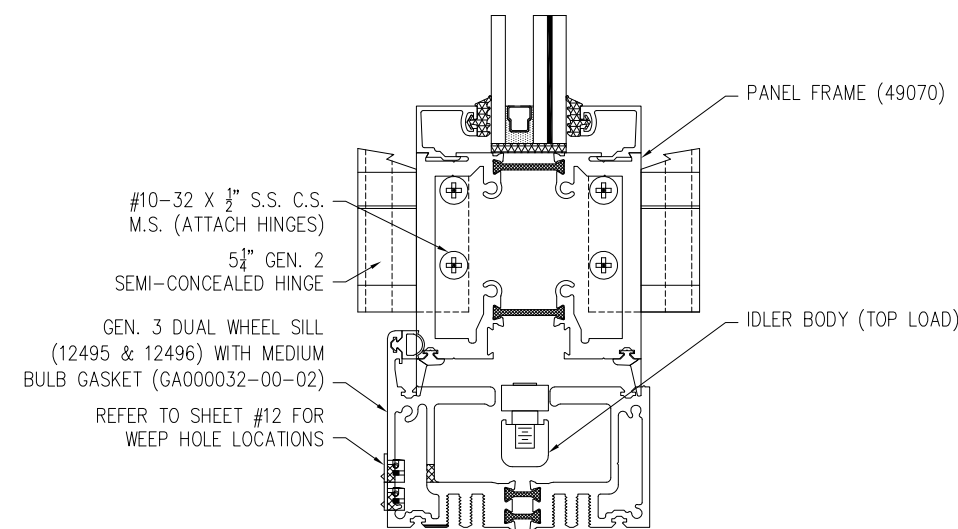
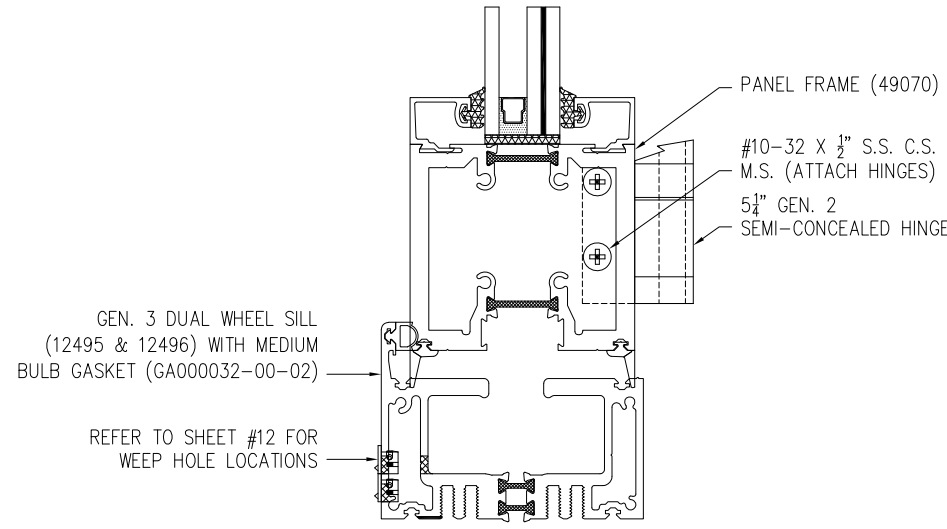
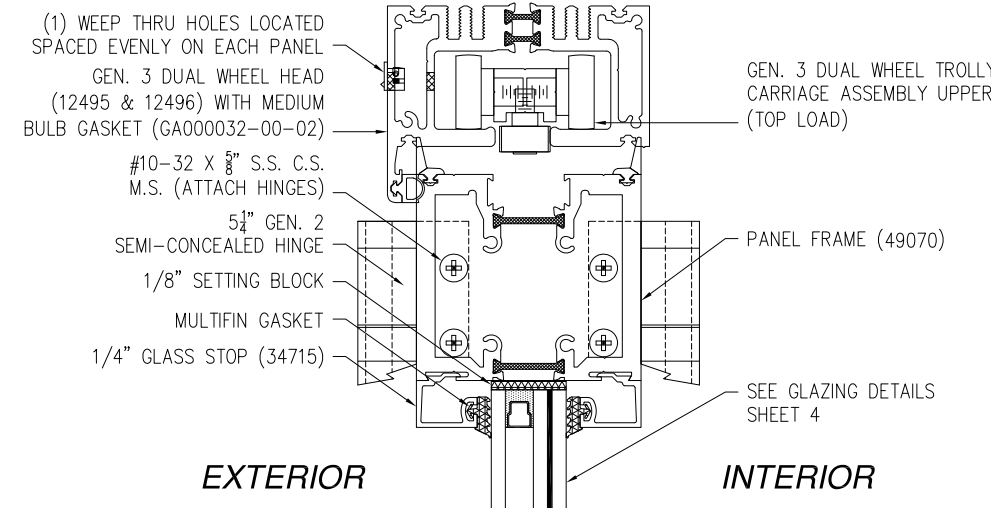
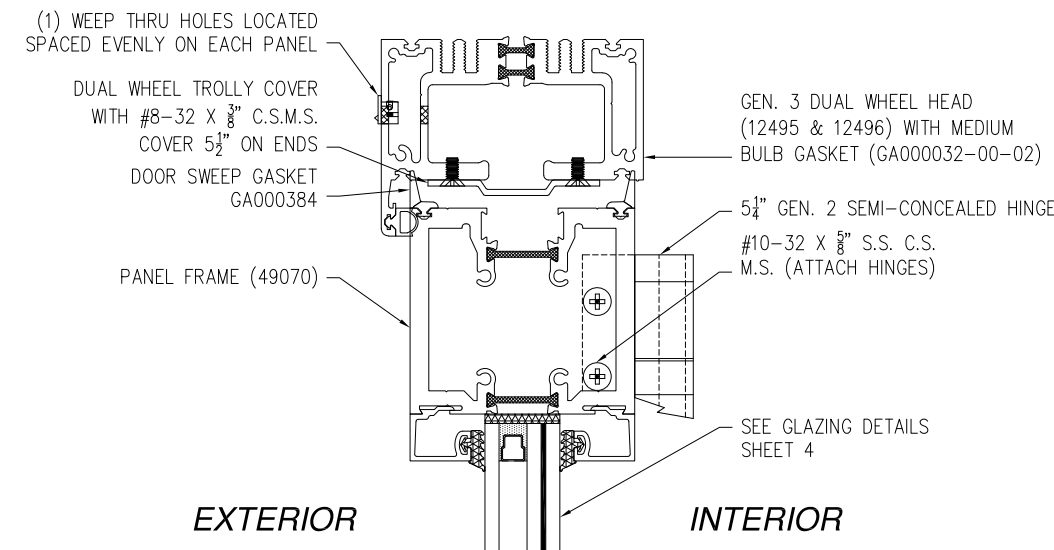
SOLAR INNOVATIONS, INC. 31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI3000 IMPACT FGW 3.5 X 9.5 PANEL STANDARD IN-FOLD ALUMINUM ELEVATION		
DRAWN: V.L.	DWG NO. 08-01859	REV F
SCALE NTS	DATE 12/05/12	SHEET 4 OF 13
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Luis R. Lomas P.E.
FL No.: 62514

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FOR INSTALLATION DETAILS REFER TO SHEETS 10 - 11

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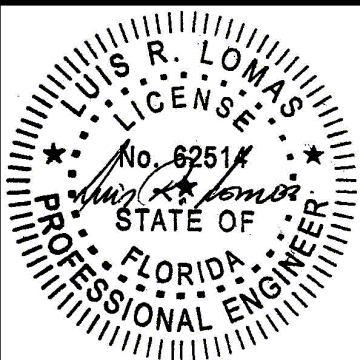
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 IMPACT FGW 3.5 X 9.5 PANEL
STANDARD IN-FOLD ALUMINUM
ANCHORING LAYOUT

DRAWN: V.L.	DWG NO. 08-01859	REV F
SCALE NTS	DATE 12/05/12	SHEET 5 OF 13

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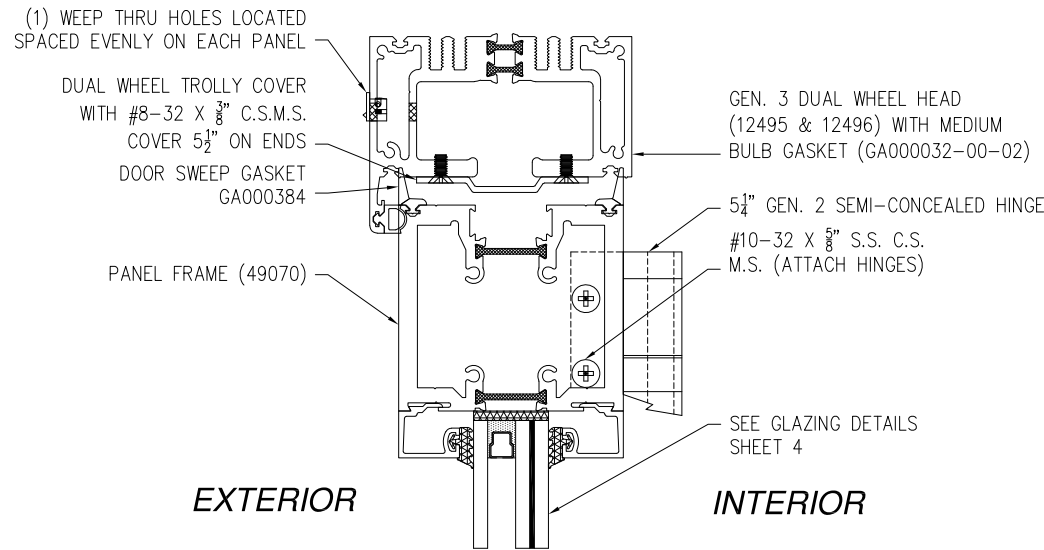
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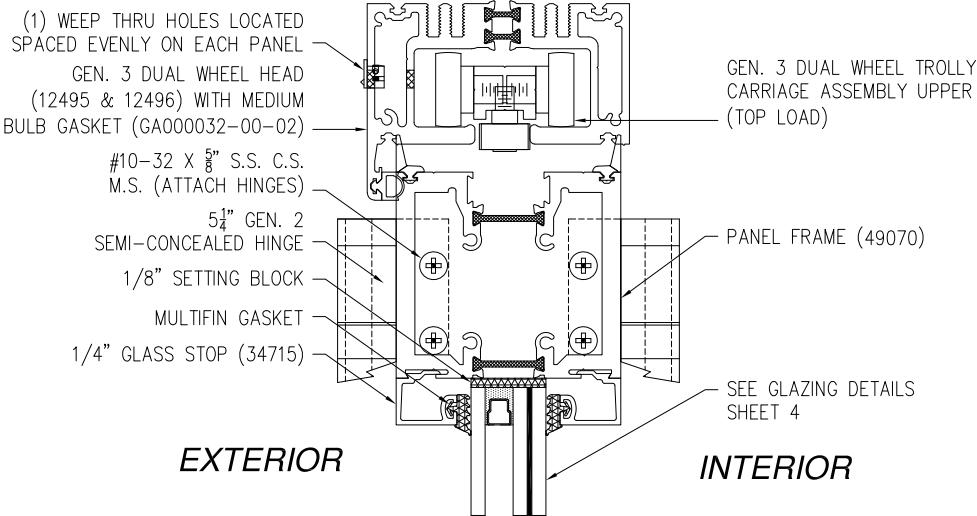
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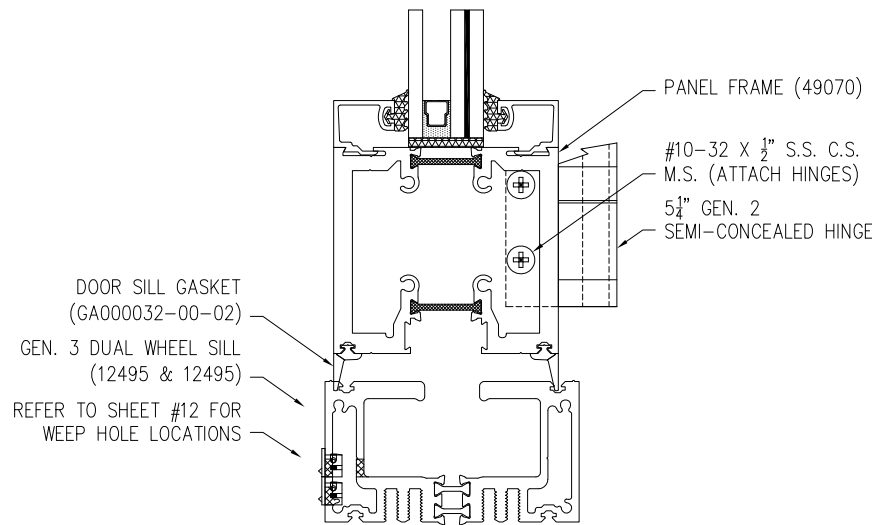
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INTERIOR

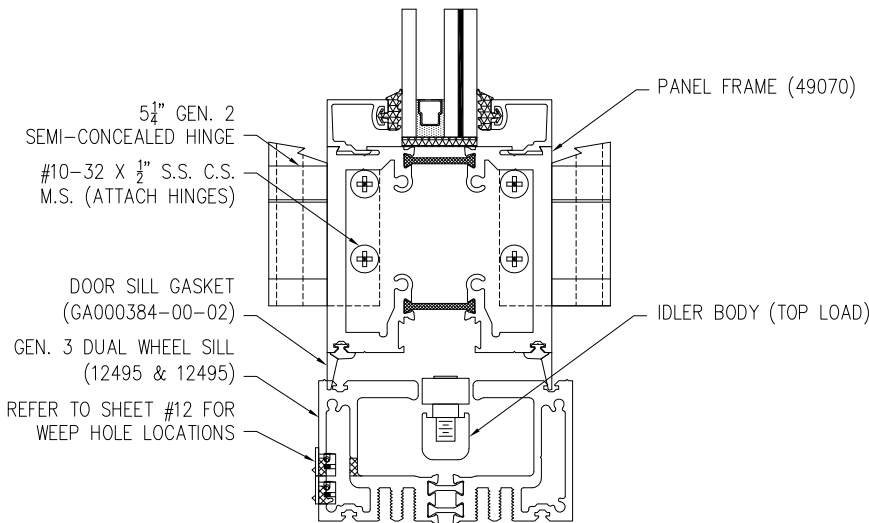


EXTERIOR

INTERIOR



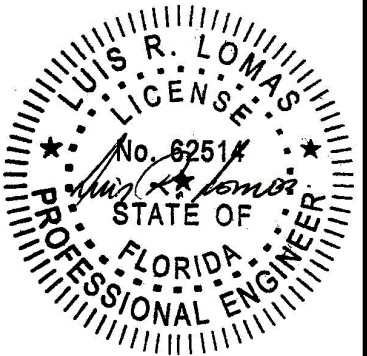
VERTICAL CROSS SECTION
STANDARD WITH FLUSH SILL



VERTICAL CROSS SECTION
TOP LOAD WITH FLUSH SILL

SIGNED: 12/12/2023

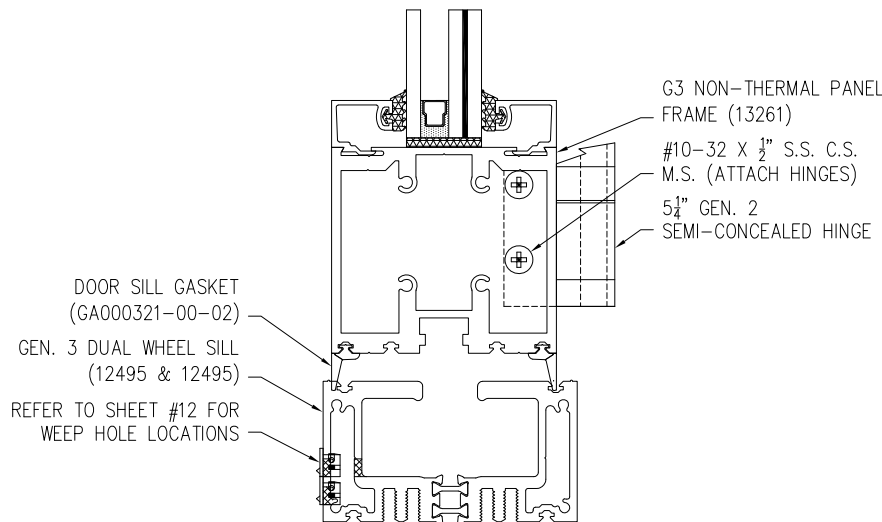
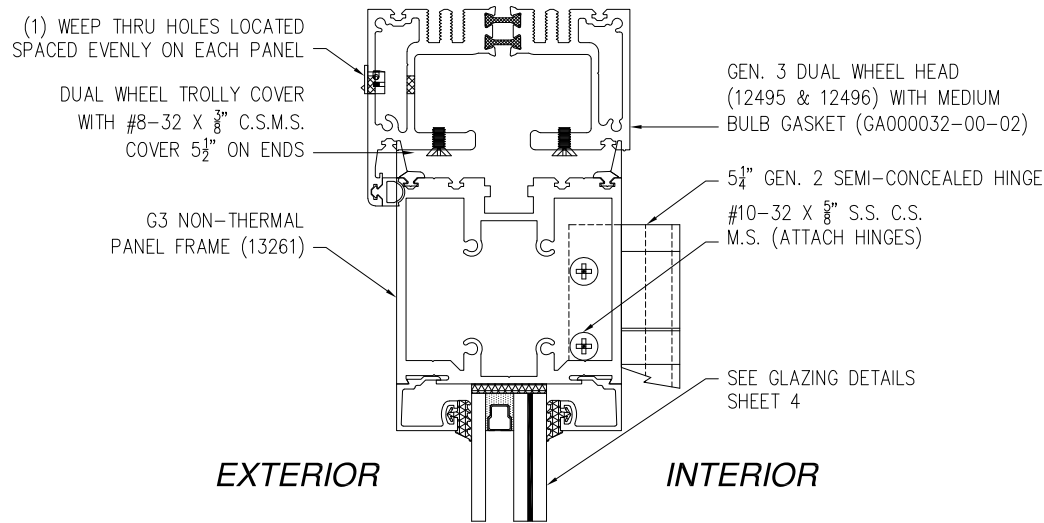
SOLAR INNOVATIONS, INC. 31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI3000 IMPACT FGW 3.5 X 9.5 PANEL STANDARD IN-FOLD ALUMINUM ANCHORING LAYOUT		
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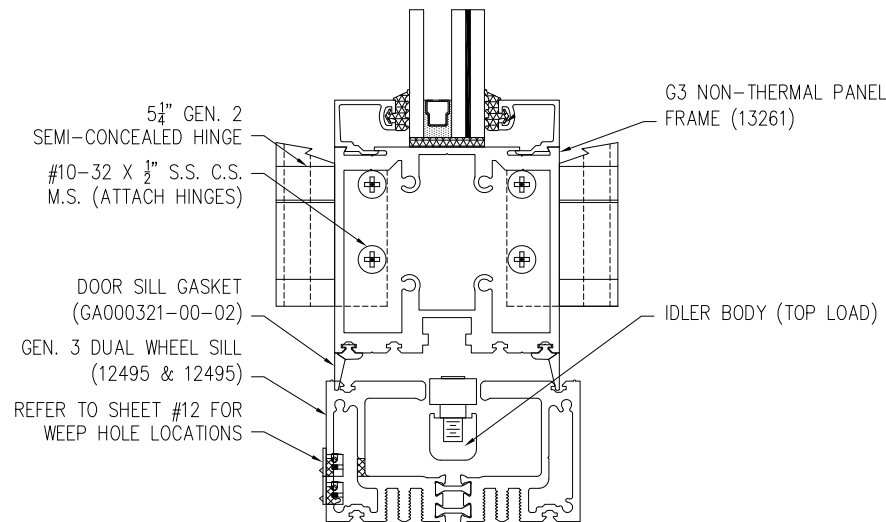
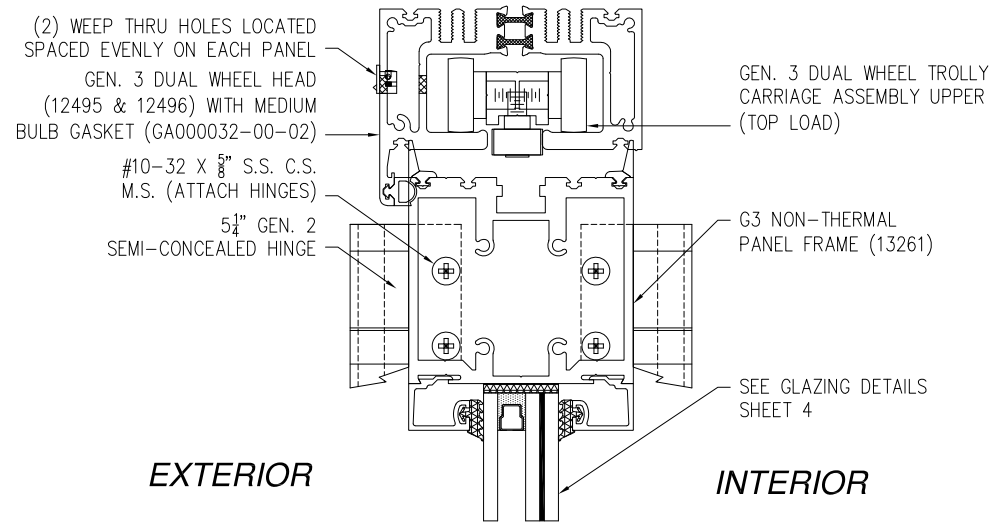
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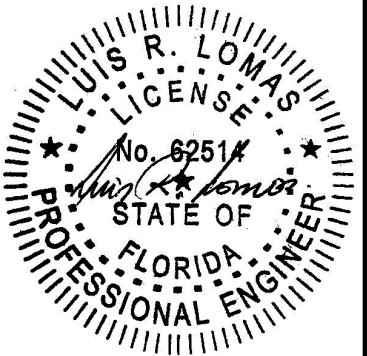
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NON-THERMAL PANELS WITH FLUSH SILL



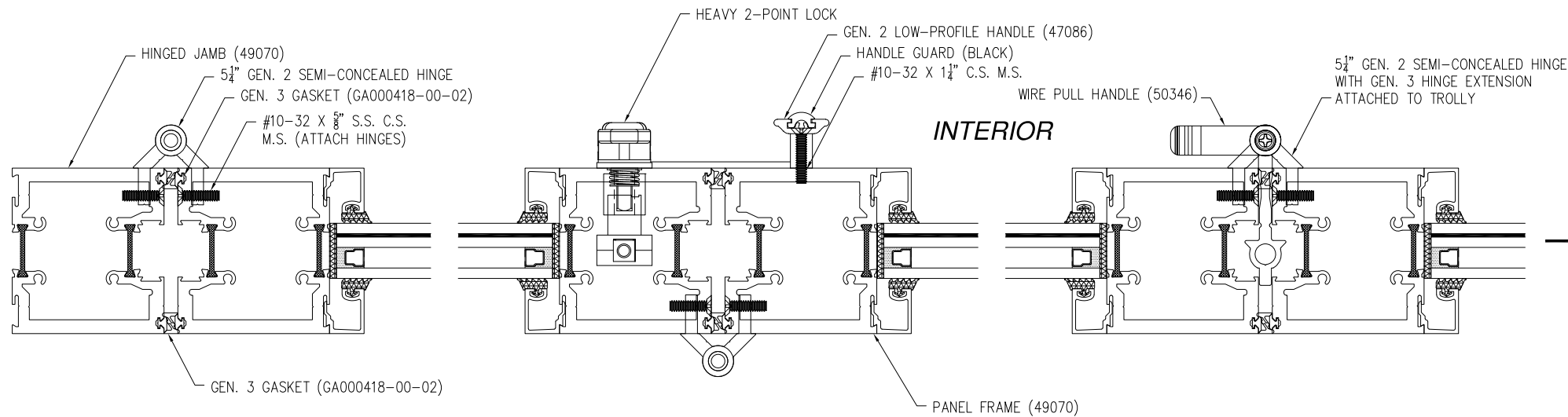
VERTICAL CROSS SECTION
NON-THERMAL PANELS TOP LOAD WITH FLUSH SILL

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31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI3000 IMPACT FGW 3.5 X 9.5 PANEL STANDARD IN-FOLD ALUMINUM ANCHORING LAYOUT		
DRAWN: V.L.	DWG NO. 08-01859	REV F
SCALE NTS	DATE 12/05/12	SHEET 7 OF 13
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

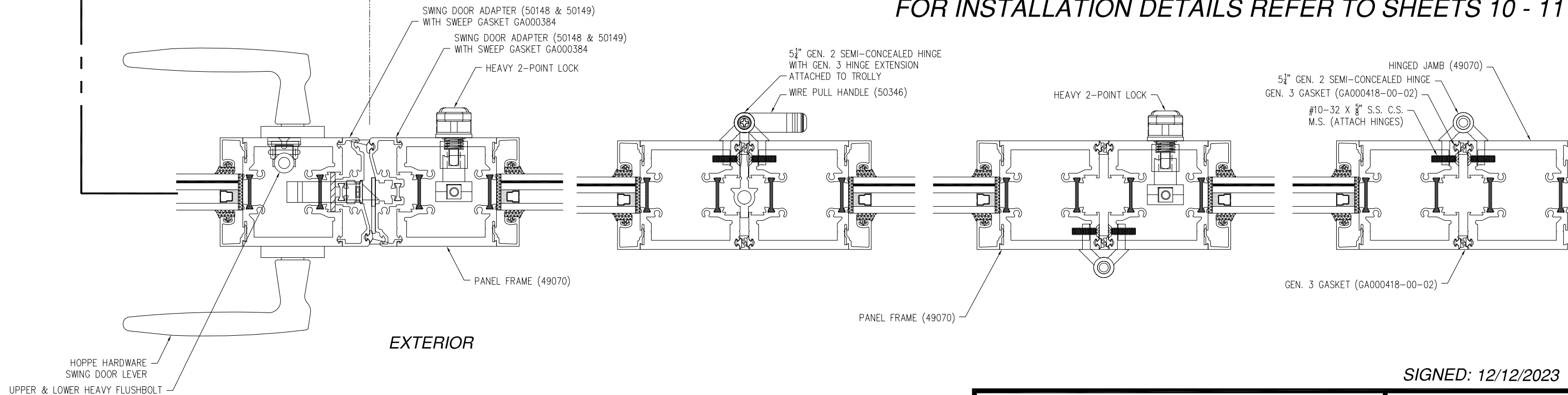


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HORIZONTAL CROSS SECTION

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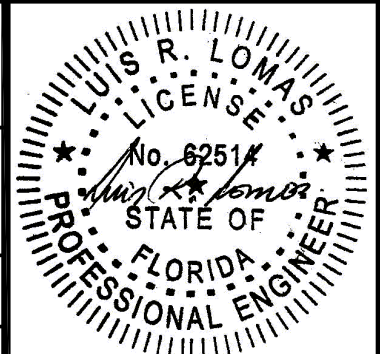
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 IMPACT FGW 3.5 X 9.5 PANEL
STANDARD IN-FOLD ALUMINUM
HORIZONTAL CROSS SECTIONS

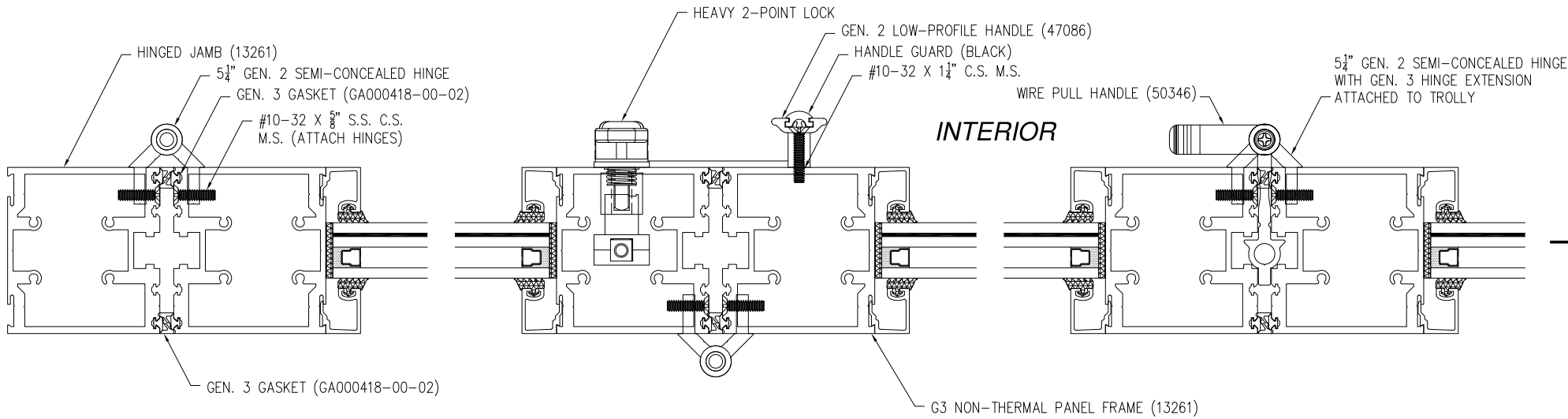
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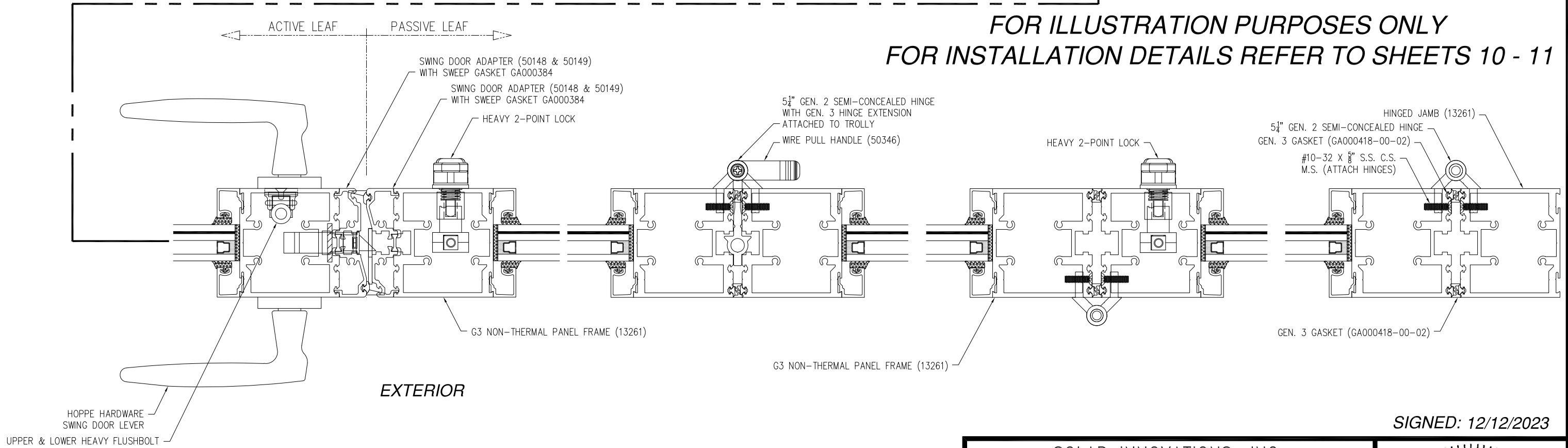


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REV	DESCRIPTION	DATE	APPROVED
F	REVISED PER NEW REQUIREMENTS	12/06/2023	R.L.

FOR ILLUSTRATION PURPOSES ONLY
FOR INSTALLATION DETAILS REFER TO SHEETS 10 - 11



HORIZONTAL CROSS SECTION
WITH NON-THERMAL PANELS

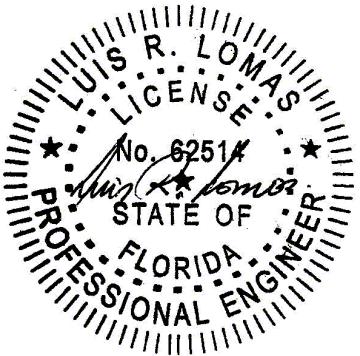
SOLAR INNOVATIONS, INC.
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 IMPACT FGW 3.5 X 9.5 PANEL
STANDARD IN-FOLD ALUMINUM
HORIZONTAL CROSS SECTIONS

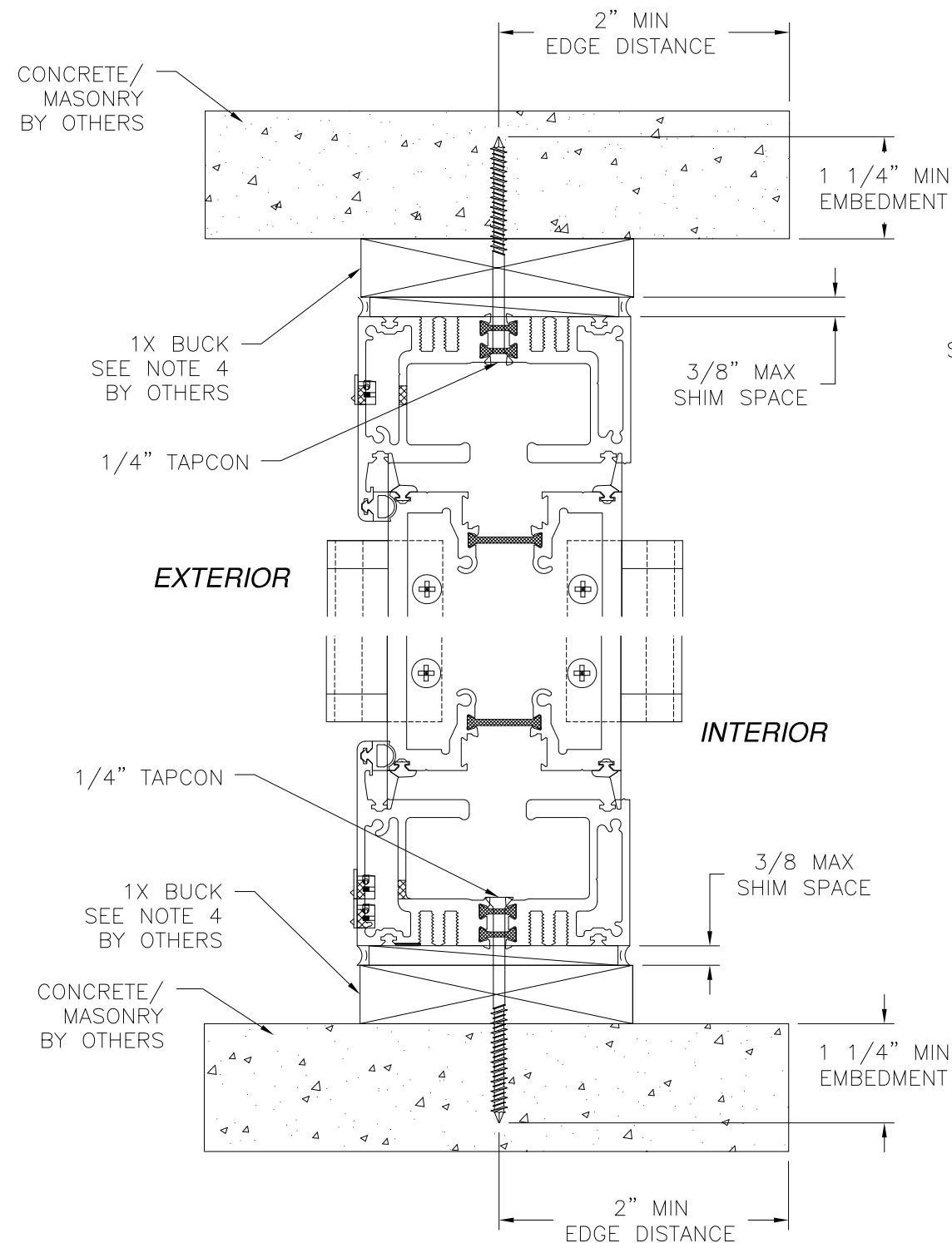
DRAWN: V.L.	DWG NO. 08-01859	REV F
SCALE NTS	DATE 12/05/12	SHEET 9 OF 13

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

SIGNED: 12/12/2023

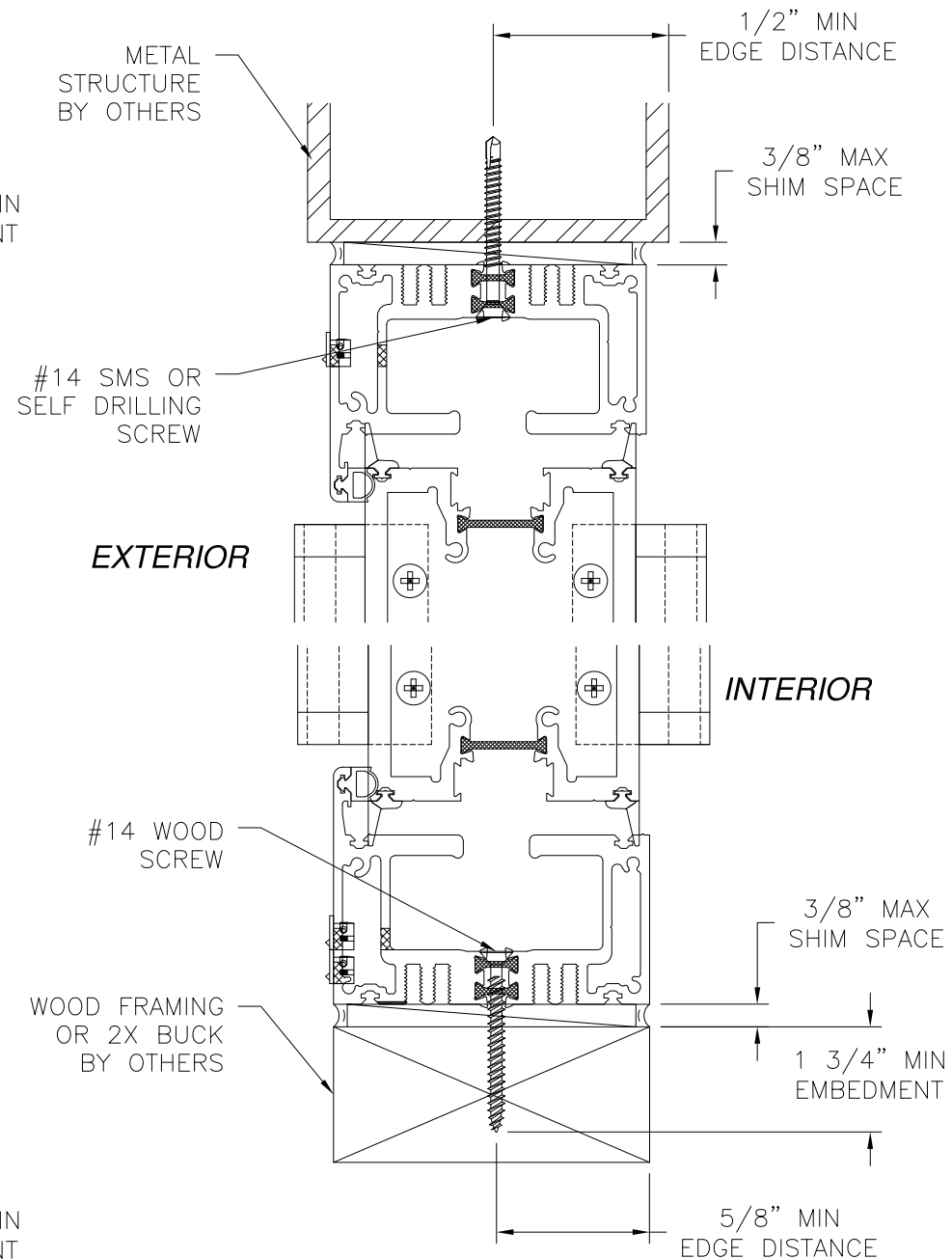


Luis R. Lomas P.E.
FL No.: 62514



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

- 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
WOOD FRAMING OR 2X BUCK
OR METAL STRUCTURE INSTALLATION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED PER NEW REQUIREMENTS	12/06/2023	R.L.

SOLAR INNOVATIONS, INC.

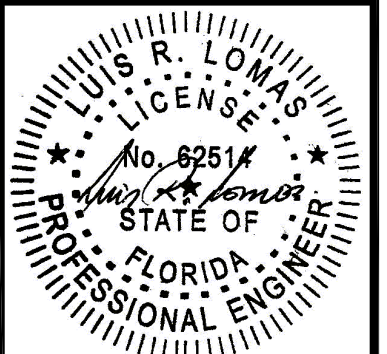
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 IMPACT FGW 3.5 X 9.5 PANEL
STANDARD IN-FOLD ALUMINUM
INSTALLATION DETAILS

DRAWN: V.L.	DWG NO. 08-01859	REV F
SCALE NTS	DATE 12/05/12	SHEET 10 OF 13

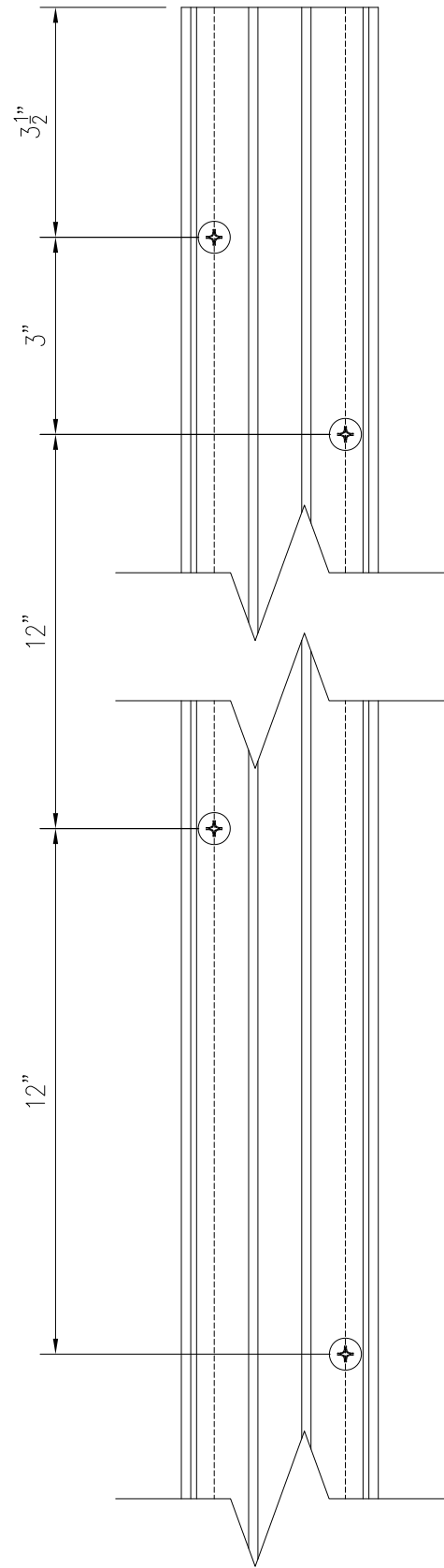
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 12/12/2023

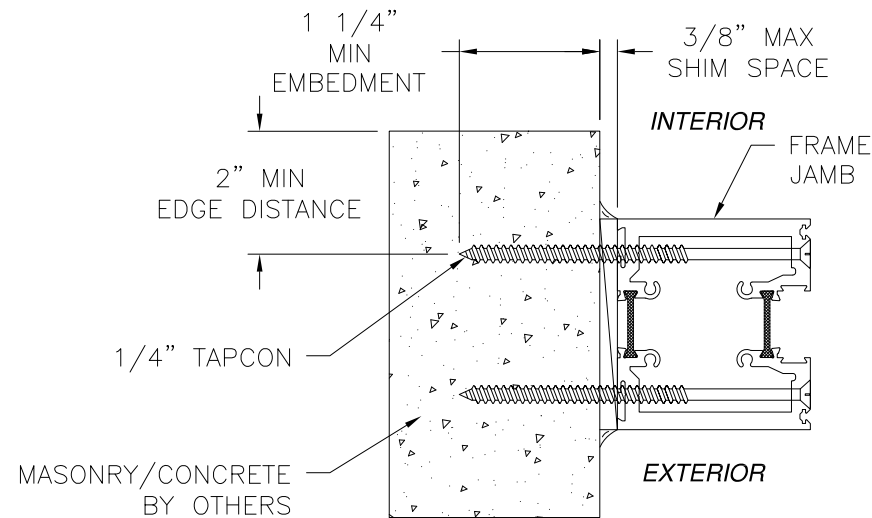


Luis R. Lomas P.E.
FL No.: 62514

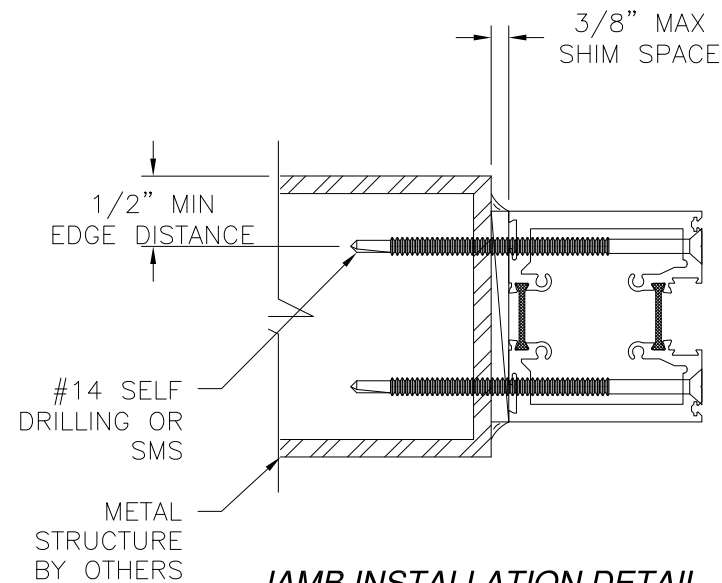
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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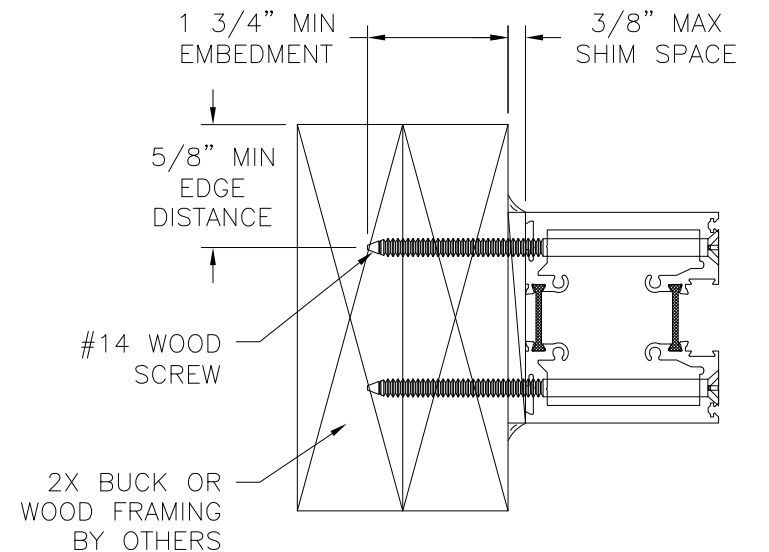
JAMB ANCHOR LOCATIONS
DETAIL



JAMB INSTALLATION DETAIL
MASONRY/CONCRETE



JAMB INSTALLATION DETAIL
METAL STRUCTURE

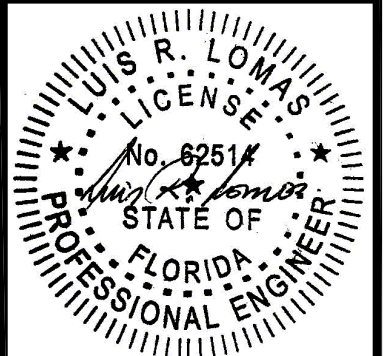


JAMB INSTALLATION DETAIL
2X BUCK OR WOOD FRAMING

- 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

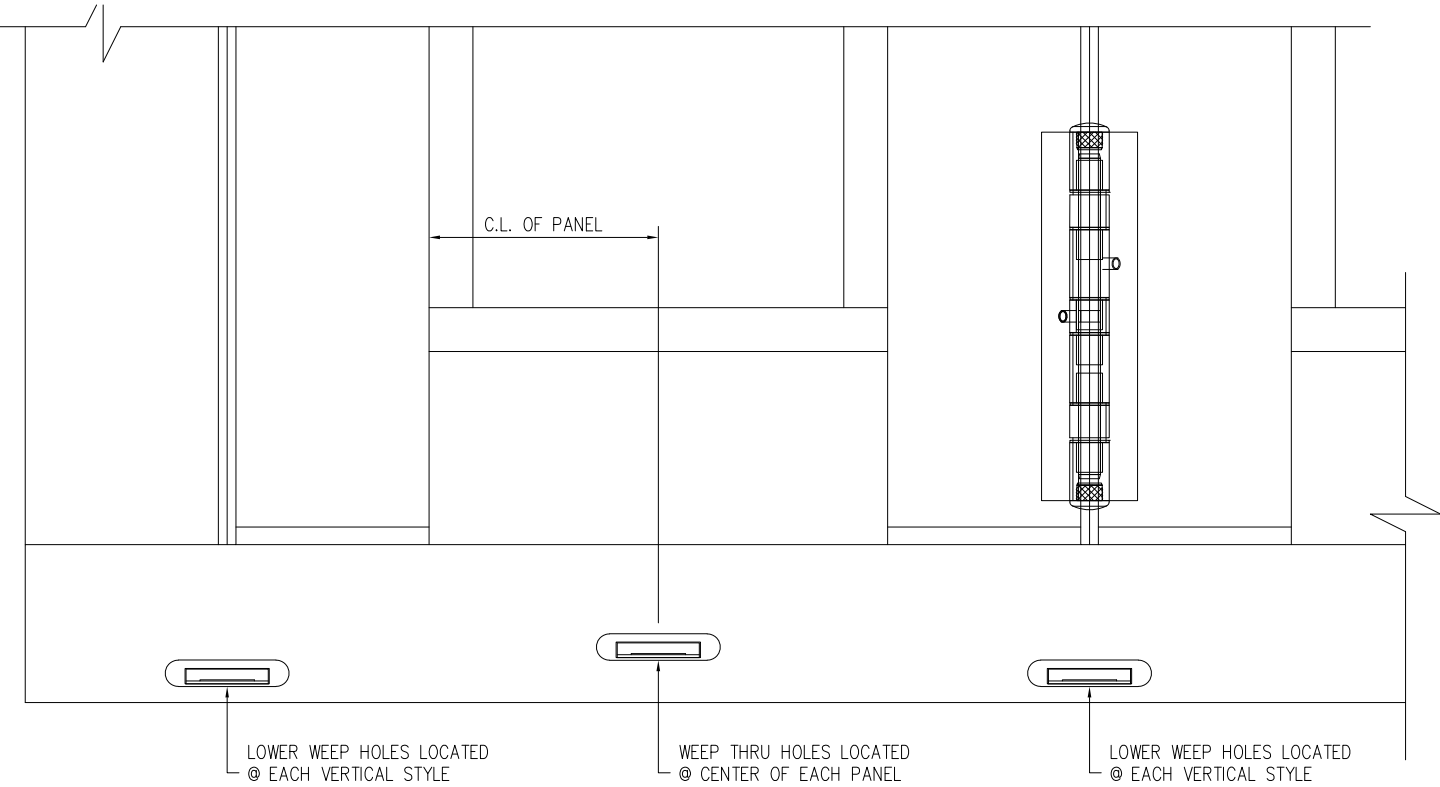
SIGNED: 12/12/2023

SOLAR INNOVATIONS, INC. 31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI3000 IMPACT FGW 3.5 X 9.5 PANEL STANDARD IN-FOLD ALUMINUM INSTALLATION DETAILS		
DRAWN: V.L.	DWG NO. 08-01859	REV F
SCALE NTS	DATE 12/05/12	SHEET 11 OF 13
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

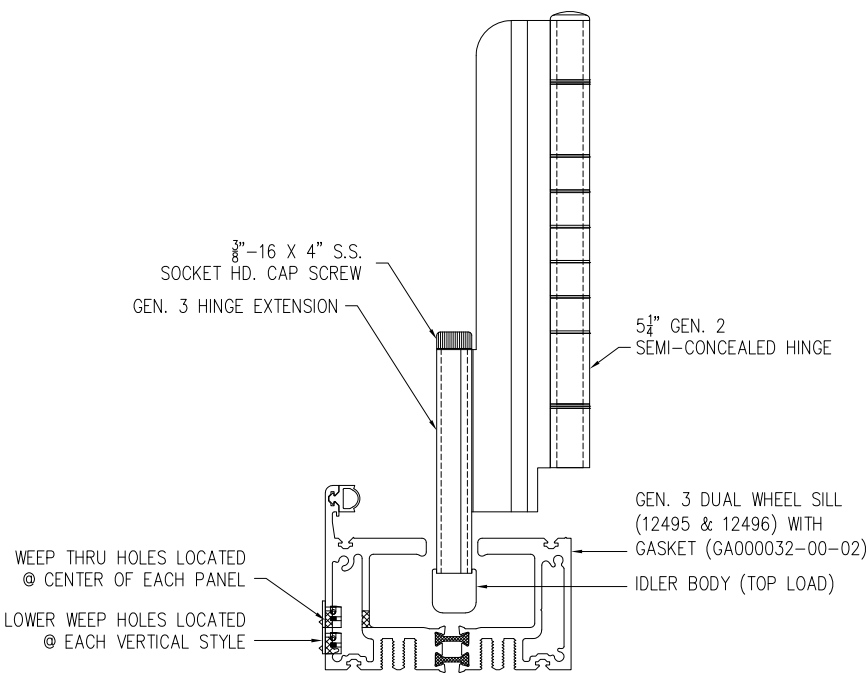


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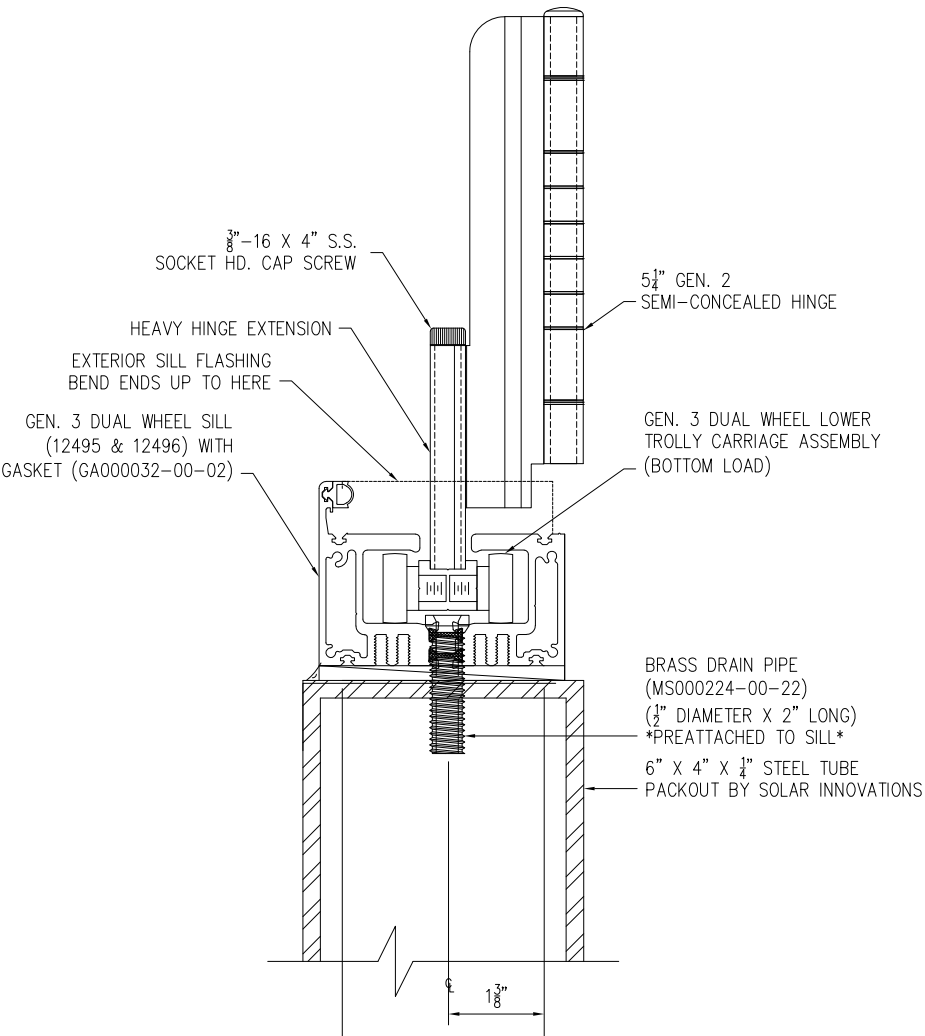
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED PER NEW REQUIREMENTS	12/06/2023	R.L.



WEEP HOLES DETAILS



**WEEP HOLES AND HINGE EXTENSION
DETAIL**



**DRAIN PIPE AND HINGE EXTENSION
DETAIL**

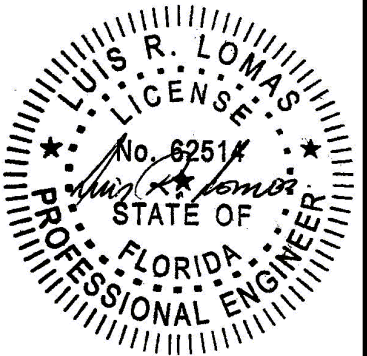
SOLAR INNOVATIONS, INC.
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 IMPACT FGW 3.5 X 9.5 PANEL
STANDARD IN-FOLD ALUMINUM
INSTALLATION DETAILS

DRAWN: V.L.	DWG NO. 08-01859	REV F
SCALE NTS	DATE 12/05/12	SHEET 12 OF 13

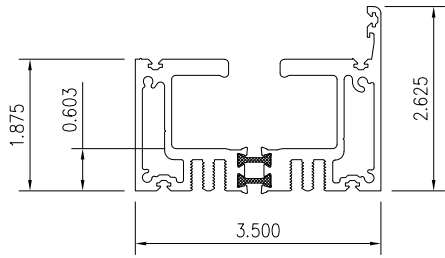
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434-688-0609 rllomas@lrlomaspe.com

SIGNED: 12/12/2023

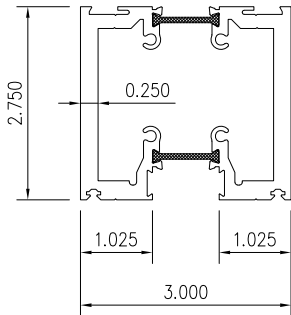


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FL No.: 62514

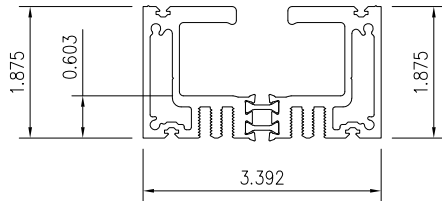
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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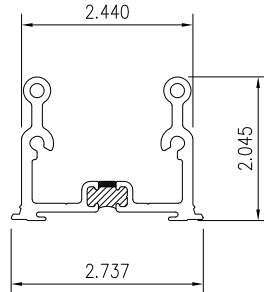
DUAL WHEEL
HEAD / SILL



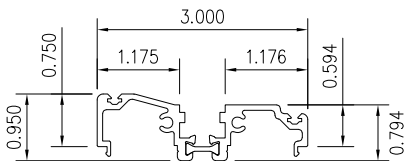
REGULAR THERMAL
FRAME



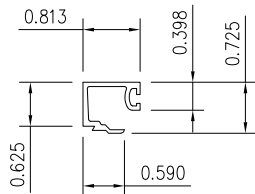
FLUSH
SILL



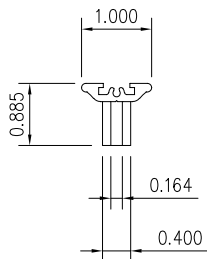
FRAME
LUG



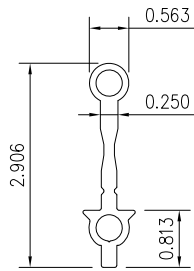
3rd GENERATION
DOOR ADAPTOR



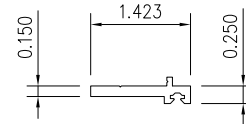
1/4" GLASS
STOP



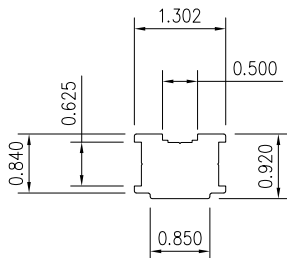
2nd GENERATION
HANDLE



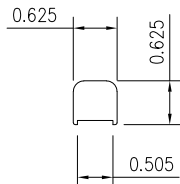
HINGE
EXTENSION



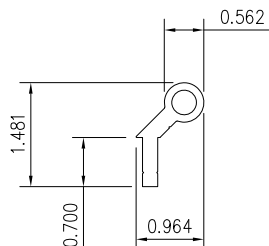
FRAME
CAP



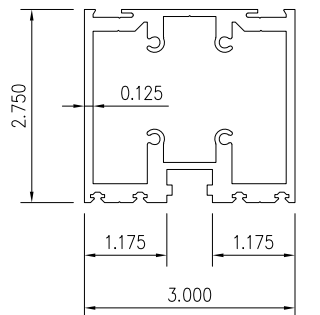
TROLLEY
BODY



IDLER
BODY



5 1/4" SEMI-
CONCEALED HINGE



NON-THERMAL
FRAME

SIGNED: 12/12/2023

SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 IMPACT FGW 3.5 X 9.5 PANEL
STANDARD IN-FOLD ALUMINUM
INSTALLATION DETAILS

DRAWN:

V.L.

DWG NO.

08-01859

REV

F

SCALE NTS

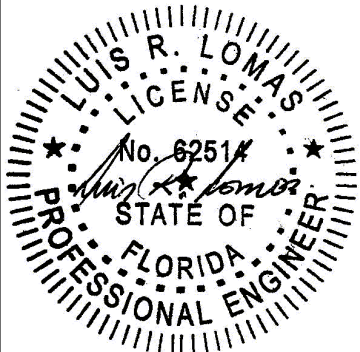
DATE

12/05/12

SHEET

13 OF 13

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