

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
H	REVISED DETAILS	04/15/26	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 6 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.

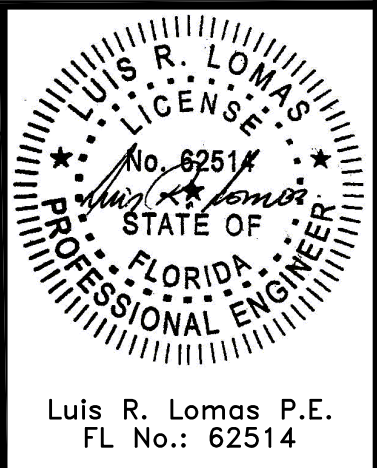
14.3. MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).

14.4. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 .125" THICK MINIMUM

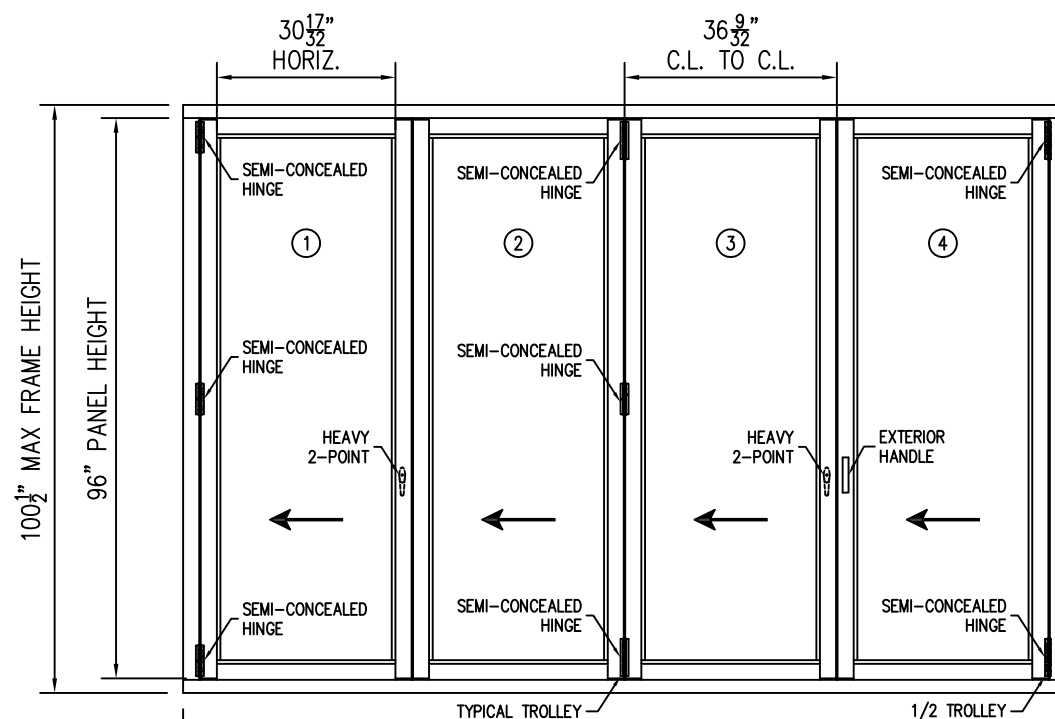
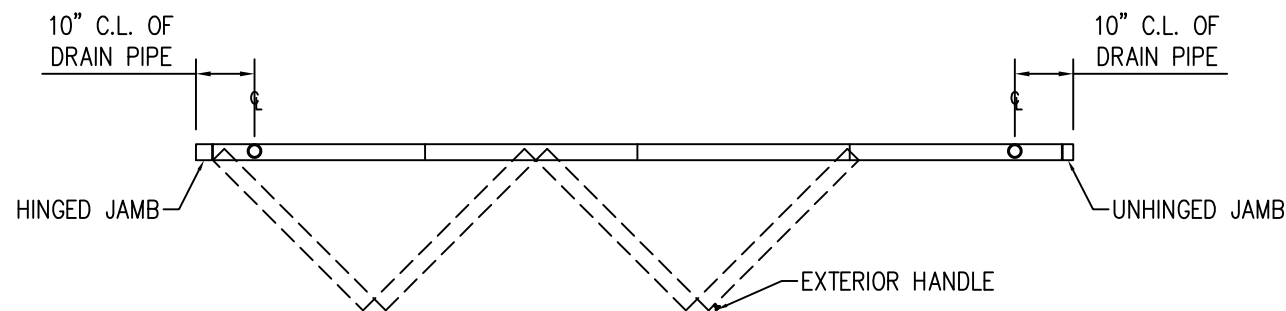
SIGNED: 04/15/2026

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12	WEEP DETAILS
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SOLAR INNOVATIONS, INC.		
31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI3000 FGW 3X8 PANEL OUTFOLD ALL WALL IMPACT – HVHZ NOTES		
DRAWN: V.L.	DWG NO. 08-01795	REV H
SCALE NTS	DATE 10/12/2012	SHEET 1 OF 13
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



SERIES SI3000 FGW 3X8 PANEL OUTFOLD ALL 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.

HARDWARE SCHEDULE

- A. PANIC BAR BY SOLAR INNOVATIONS (OPTIONAL)
- B. SEMI-CONCEALED HINGE BY SOLAR INNOVATIONS
- C. HEAVY 2-POINT BY SOLAR INNOVATIONS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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DESIGN PRESSURE RATING	IMPACT RATING
±80.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
SEE CHART #1 SHEET 3

DESIGN PRESSURE RATING	IMPACT RATING
±65.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
WITH PANIC BAR OPTION, SEE CHART #2 SHEET 3

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

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

SIGNED: 04/15/2026

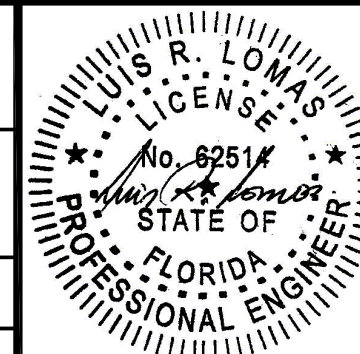
SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

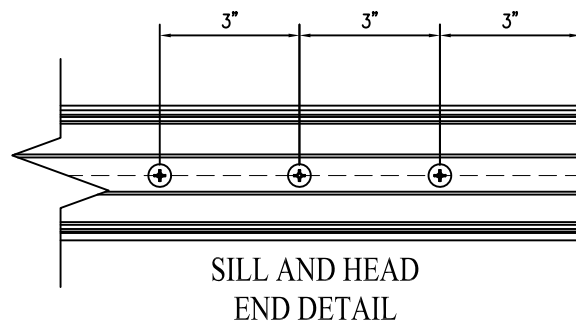
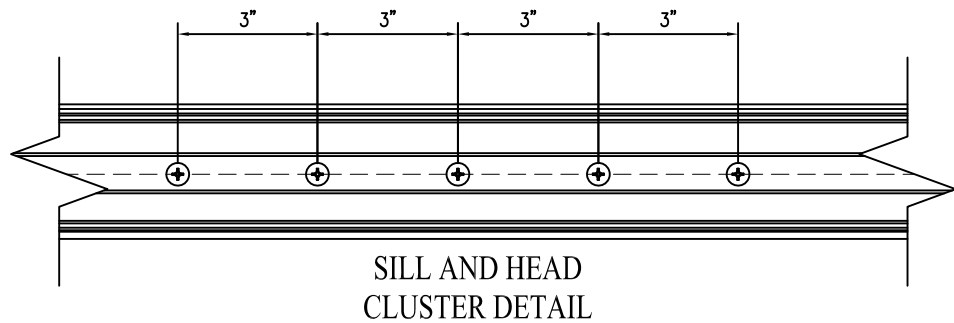
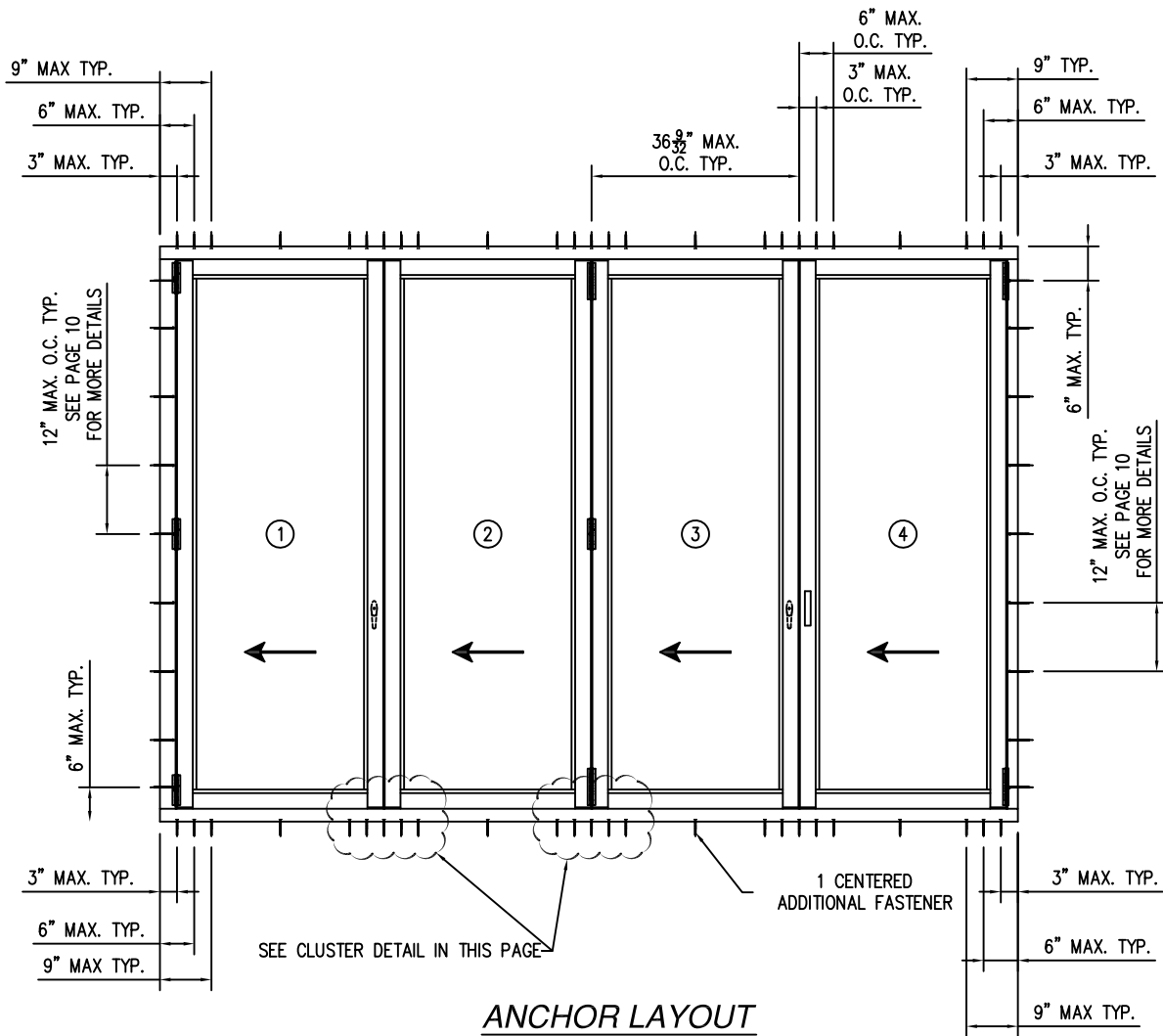
SERIES SI3000 FGW 3X8 PANEL OUTFOLD ALL WALL
IMPACT – HVHZ
ELEVATION

DRAWN: V.L.	DWG NO. 08-01795	REV H
SCALE NTS	DATE 10/12/2012	SHEET 2 OF 13

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Luis R. Lomas P.E.
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REVISIONS			
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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		44.000	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
78.0	80.0	80.0	80.0	80.0	80.0	80.0	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 #2 Maximum Design pressure (psf)										
Panel Height (in)	Single Panel Width (in)									
	24.0		30.0		36.281		42.0		44.000	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
78.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
84.0	65.0	65.0	65.0	65.0	65.0	65.0	-	-	-	-
90.0	65.0	65.0	65.0	65.0	65.0	65.0	-	-	-	-
96.0	65.0	65.0	65.0	65.0	65.0	65.0	-	-	-	-
102.0	65.0	65.0	64.0	64.0	-	-	-	-	-	-
108.0	65.0	65.0	53.7	53.7	-	-	-	-	-	-
114.0	56.4	56.4	45.6	45.6	-	-	-	-	-	-
120.0	48.2	48.2	-	-	-	-	-	-	-	-
126.0	41.6	41.6	-	-	-	-	-	-	-	-
132.0	36.1	36.1	-	-	-	-	-	-	-	-
138.0	31.6	31.6	-	-	-	-	-	-	-	-
144.0	27.8	27.8	-	-	-	-	-	-	-	-

Chart #3 Maximum Design pressure (psf)										
Panel Height (in)	Single Panel Width (in)									
	24.0		30.0		36.281		42.0		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	-	-	-	-	-	-	-	-

SOLAR INNOVATIONS, INC.

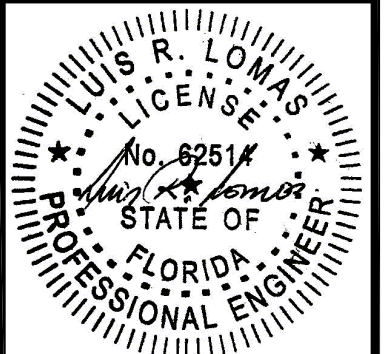
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 FGW 3X8 PANEL OUTFOLD ALL WALL
IMPACT - HVHZ
ANCHORING LAYOUT & DESIGN PRESSURE CHARTS

DRAWN: V.L.	DWG NO. 08-01795	REV H
SCALE NTS	DATE 10/12/2012	SHEET 3 OF 13

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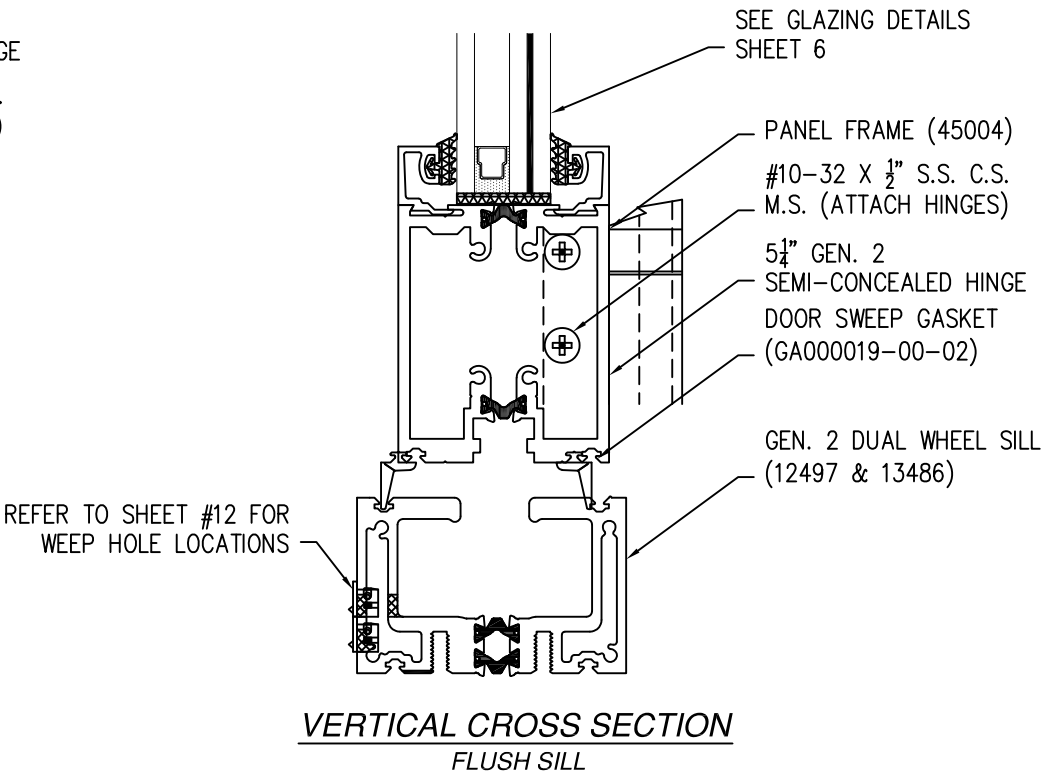
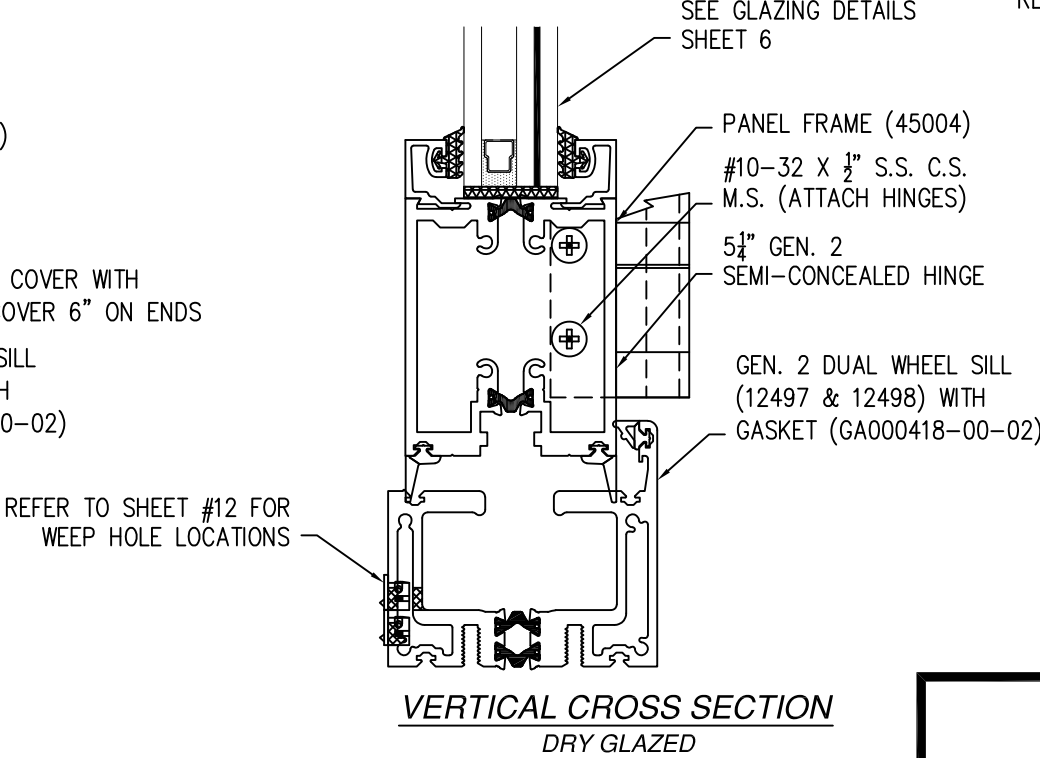
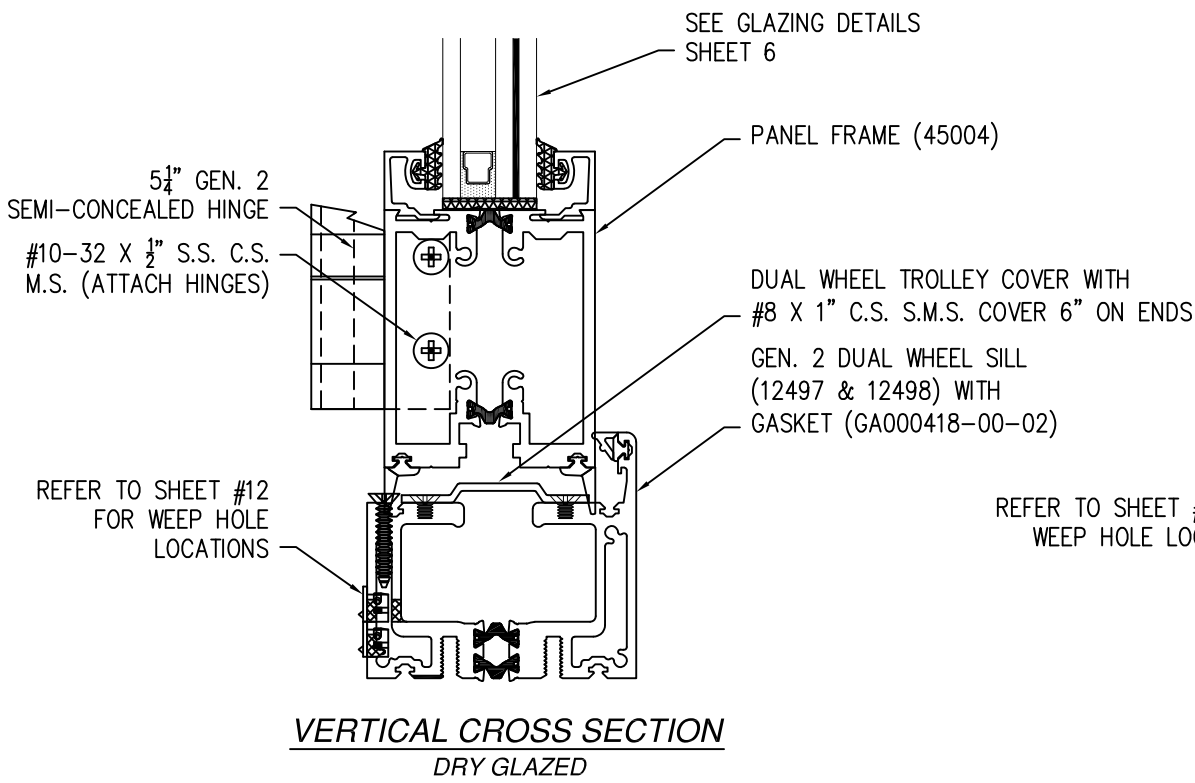
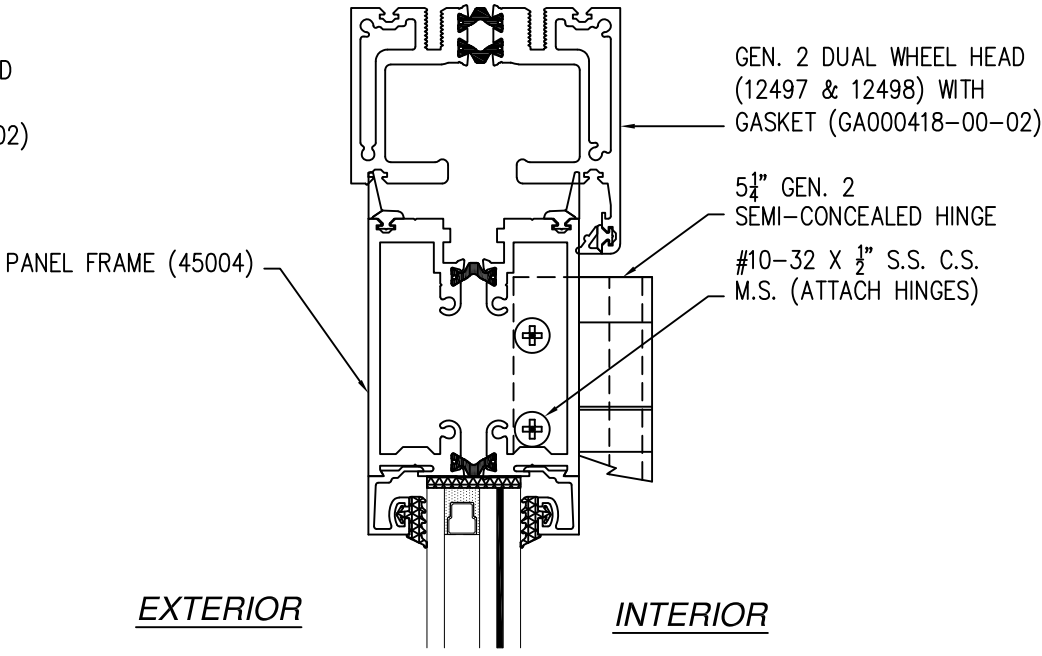
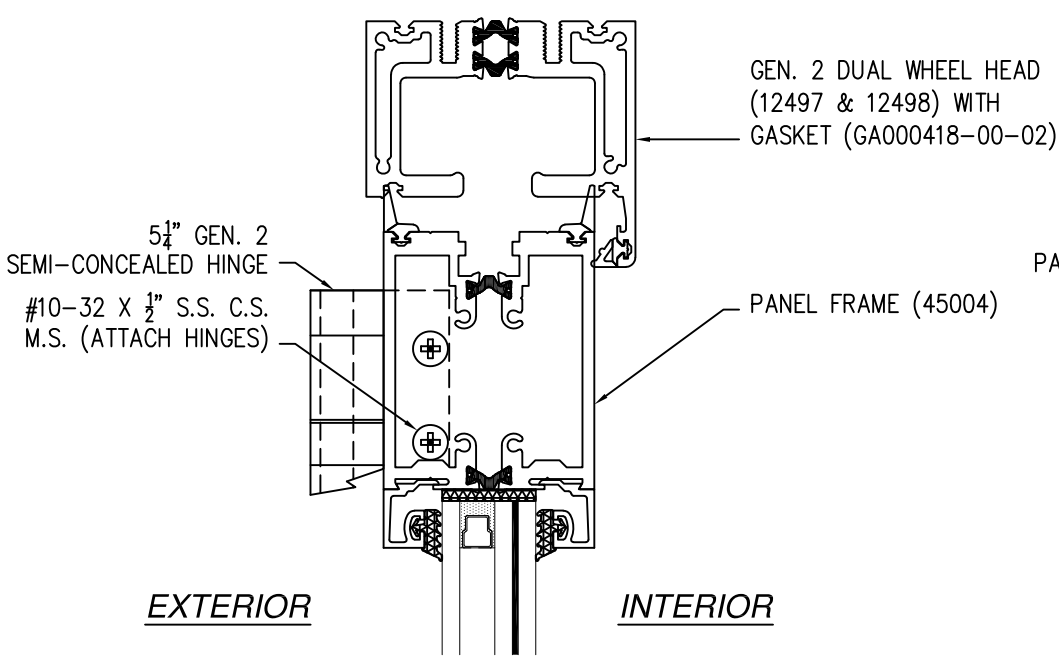
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Luis R. Lomas P.E.
FL No.: 62514

FOR ILLUSTRATION PURPOSES ONLY
FOR INSTALLATION DETAILS REFER TO SHEETS 9 - 11

REVISIONS			
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SIGNED: 04/15/2026

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

SERIES SI3000 FGW 3X8 PANEL OUTFOLD ALL WALL
IMPACT - HVHZ
VERTICAL CROSS SECTIONS

DRAWN:
V.L.

DWG NO.
08-01795

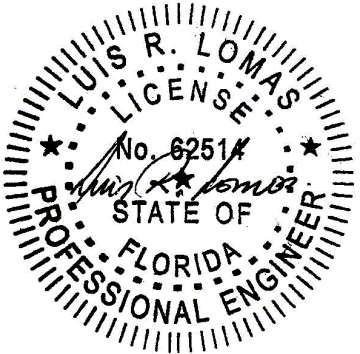
REV
H

SCALE NTS

DATE 10/12/2012

SHEET 4 OF 13

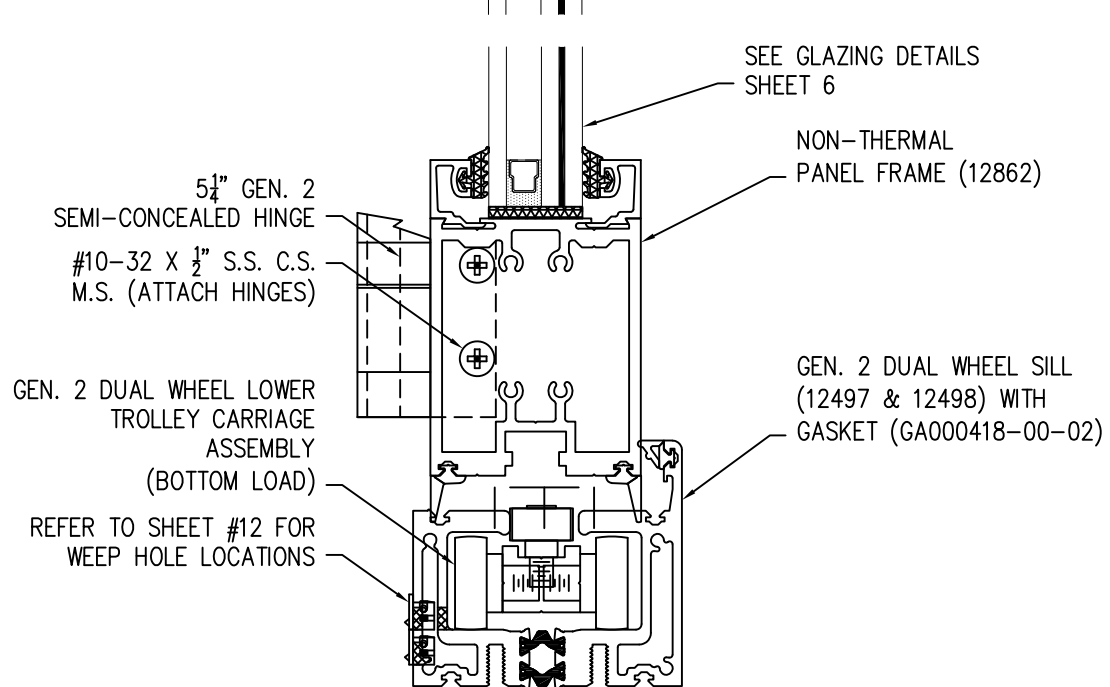
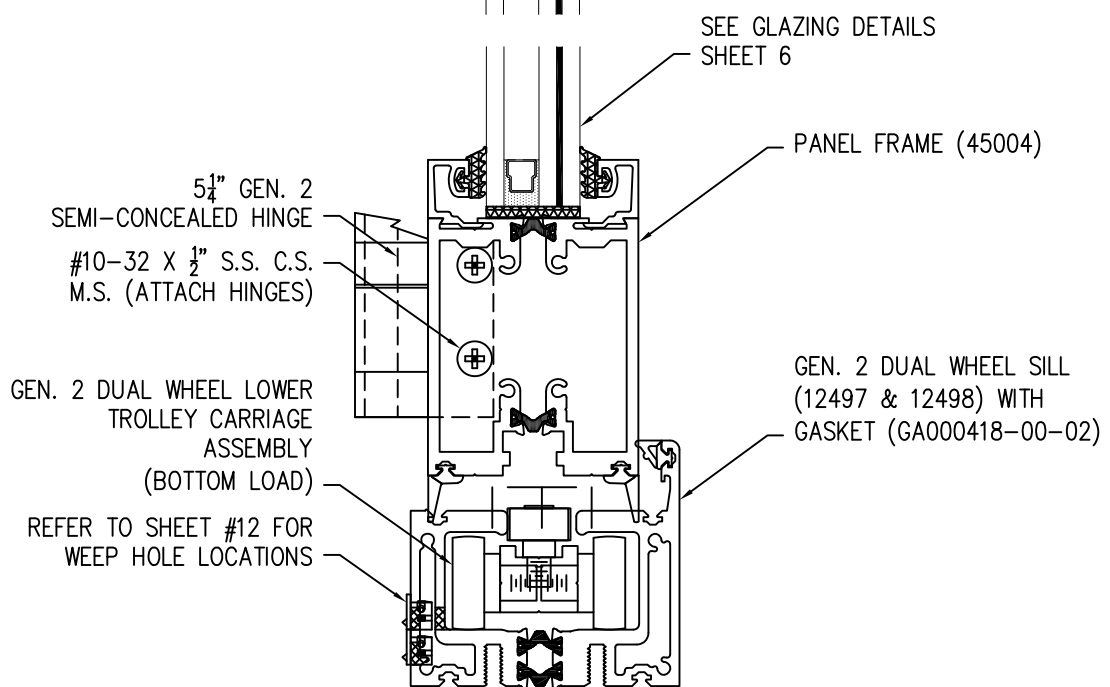
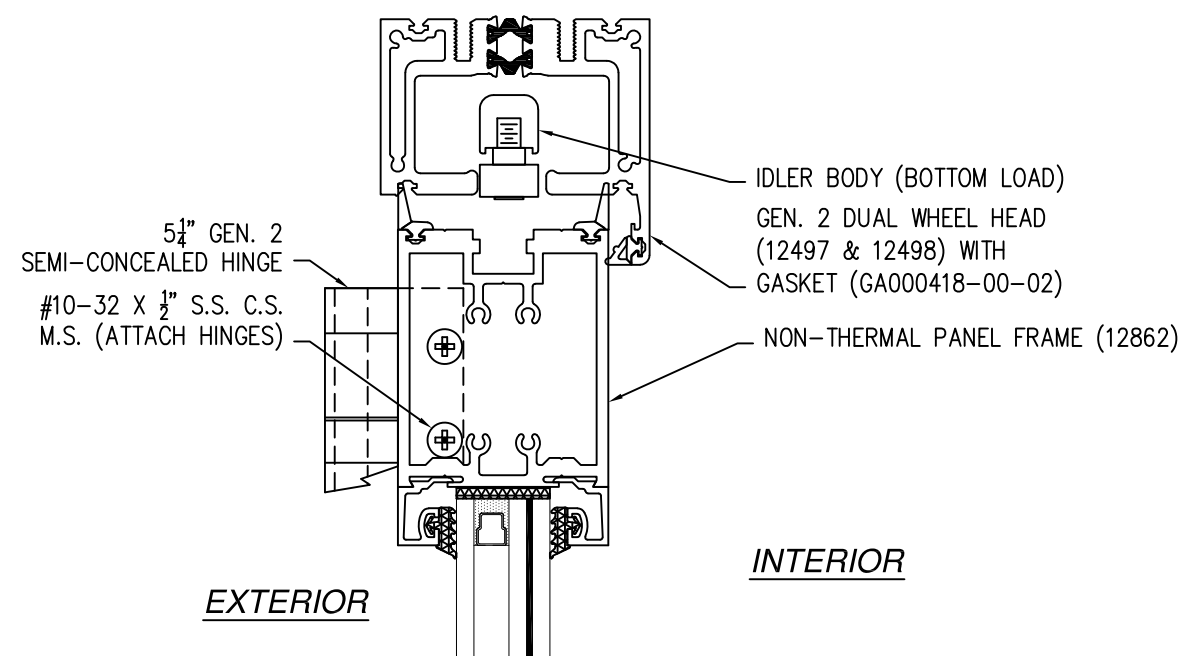
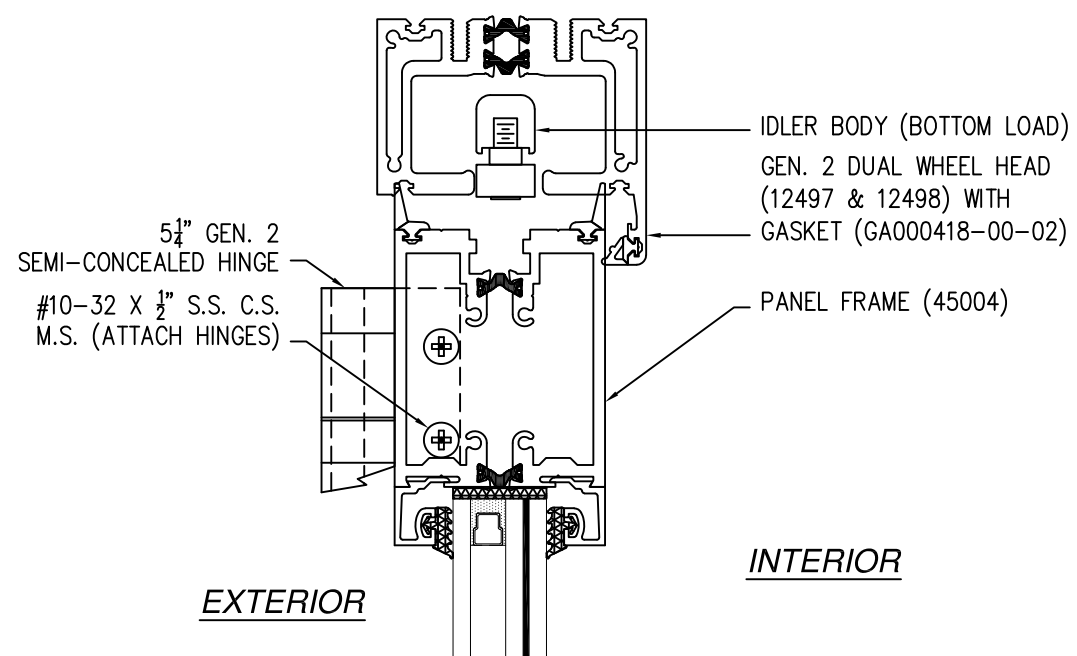
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VERTICAL CROSS SECTION
DRY GLAZED BOTTOM LOAD

VERTICAL CROSS SECTION
WITH NON-THERMAL RAILS

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

SERIES SI3000 FGW 3X8 PANEL OUTFOLD ALL WALL
IMPACT - HVHZ
VERTICAL CROSS SECTION

DRAWN:
V.L.

DWG NO.
08-01795

REV
H

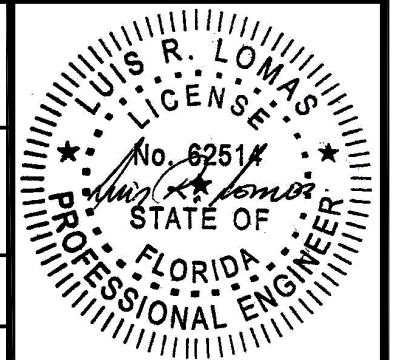
SCALE NTS

DATE 10/12/2012

SHEET 5 OF 13

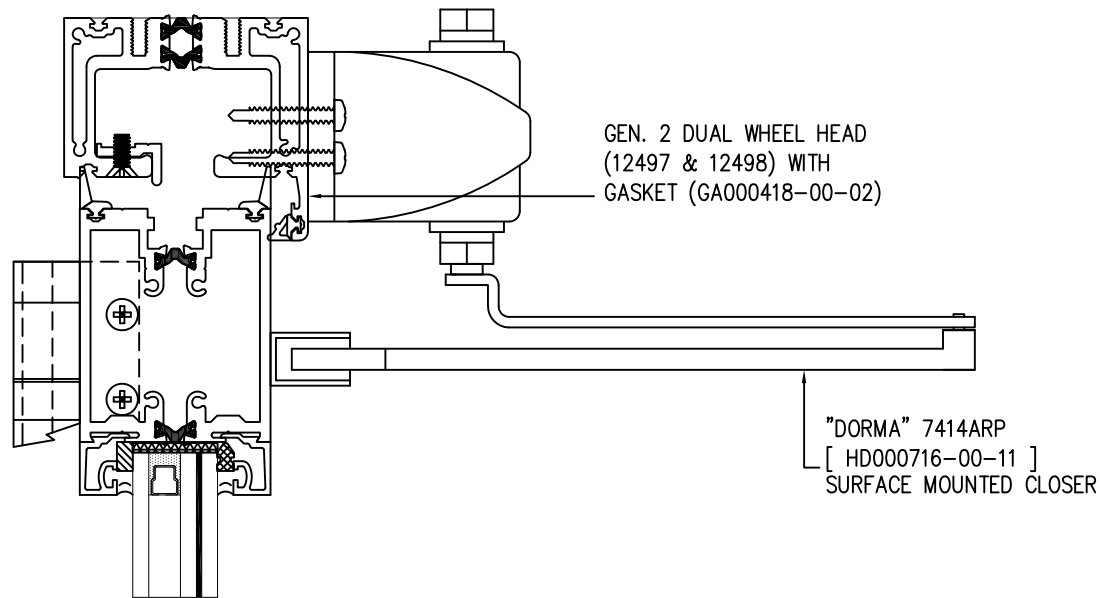
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SIGNED: 04/15/2026



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

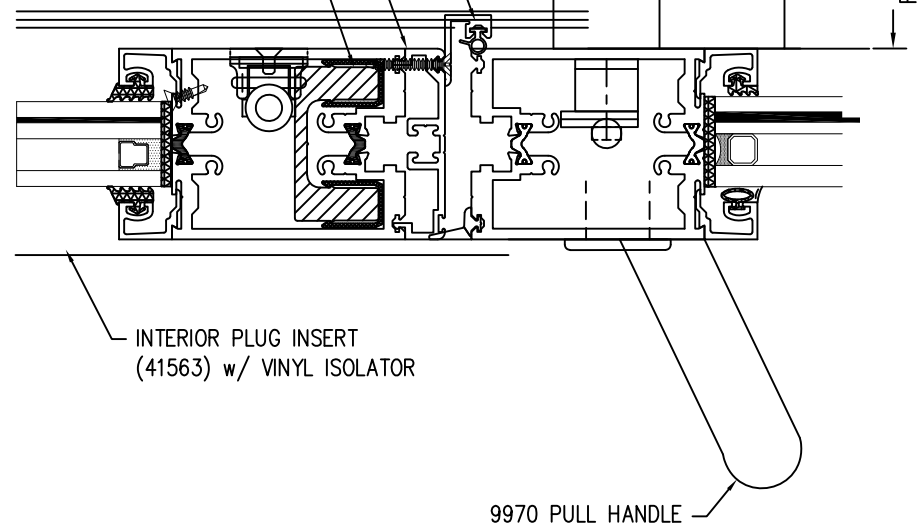
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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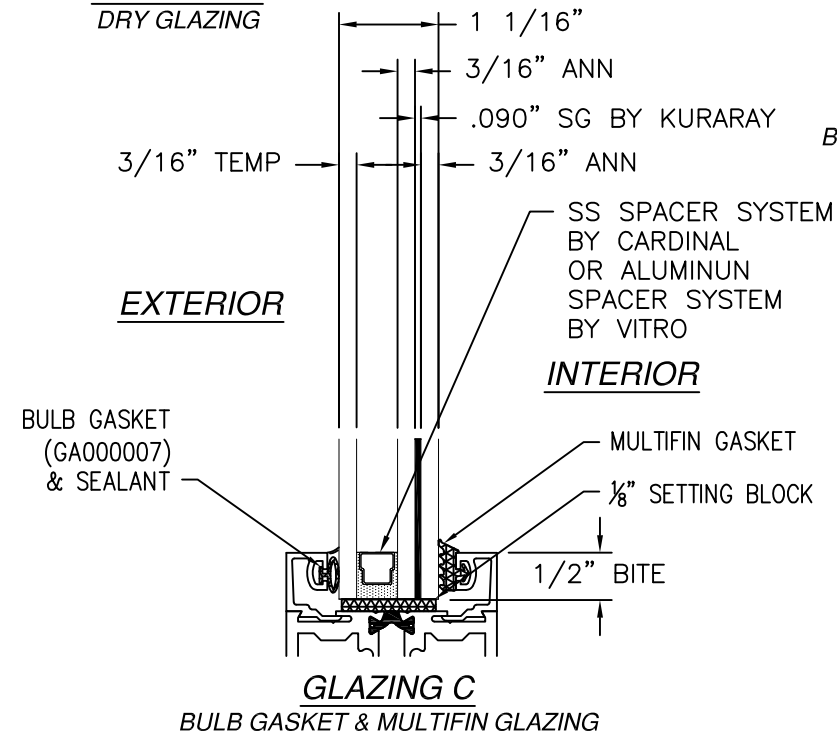
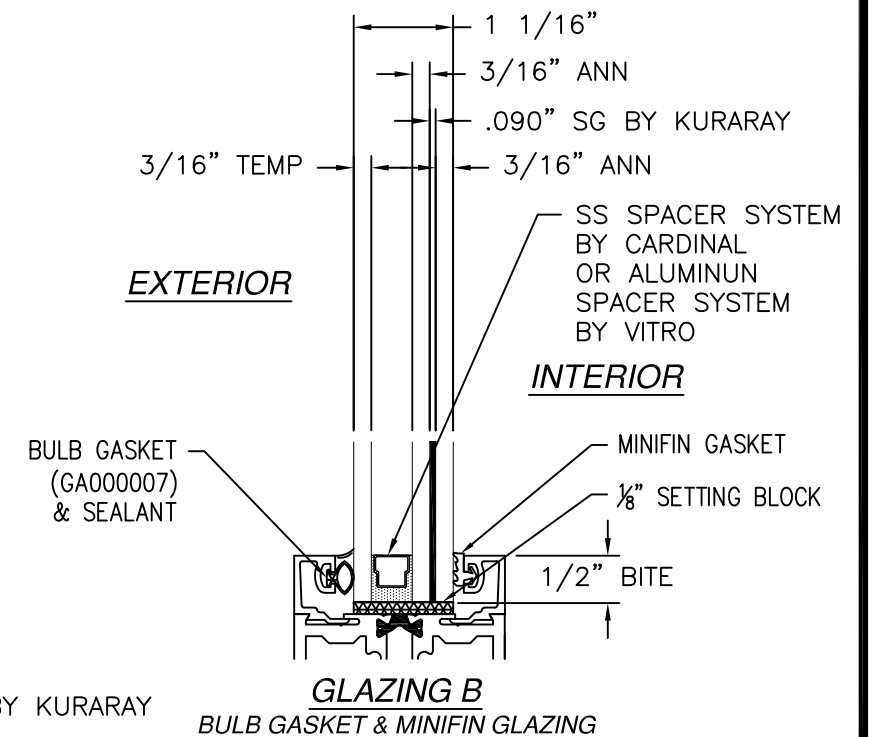
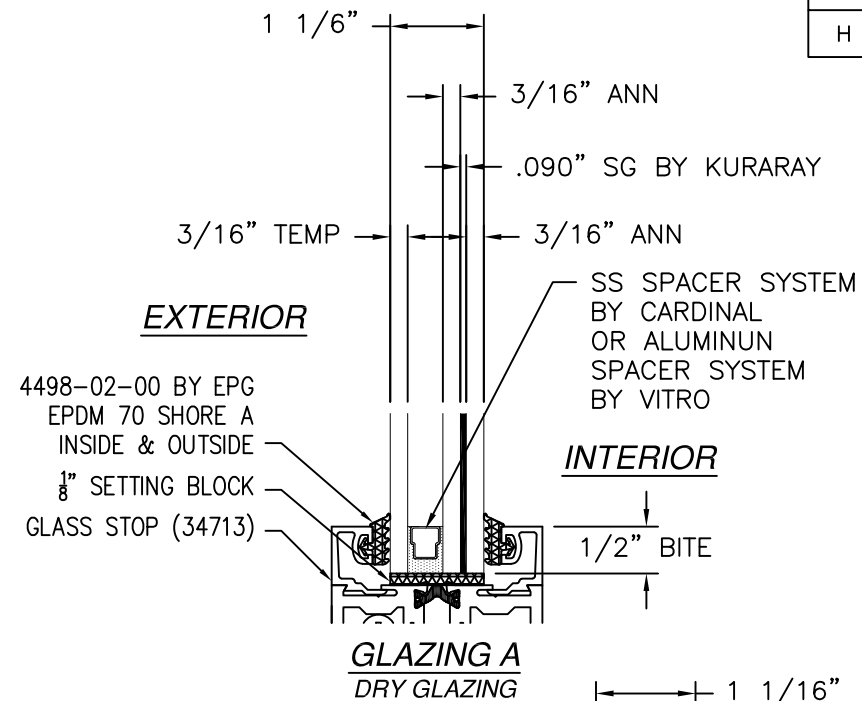
SLIDE-IN DOOR STOP (52262) WITH COEX BULB GASKET (GA000022-00-02) ATTACHED WITH #6 X 1" C.S. S.M.S. (FA000085-00-00) 3" IN FROM ENDS & 8" O.C.

DOOR ADAPTER (40921)

INTERIOR PLUG INSERT (41563) w/ VINYL ISOLATOR

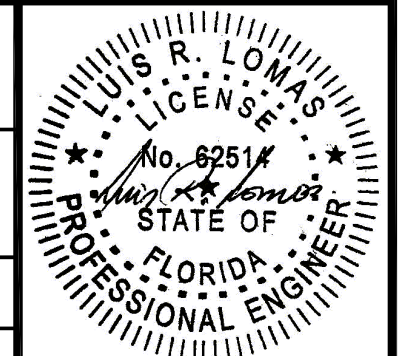


PANIC BAR DETAILS



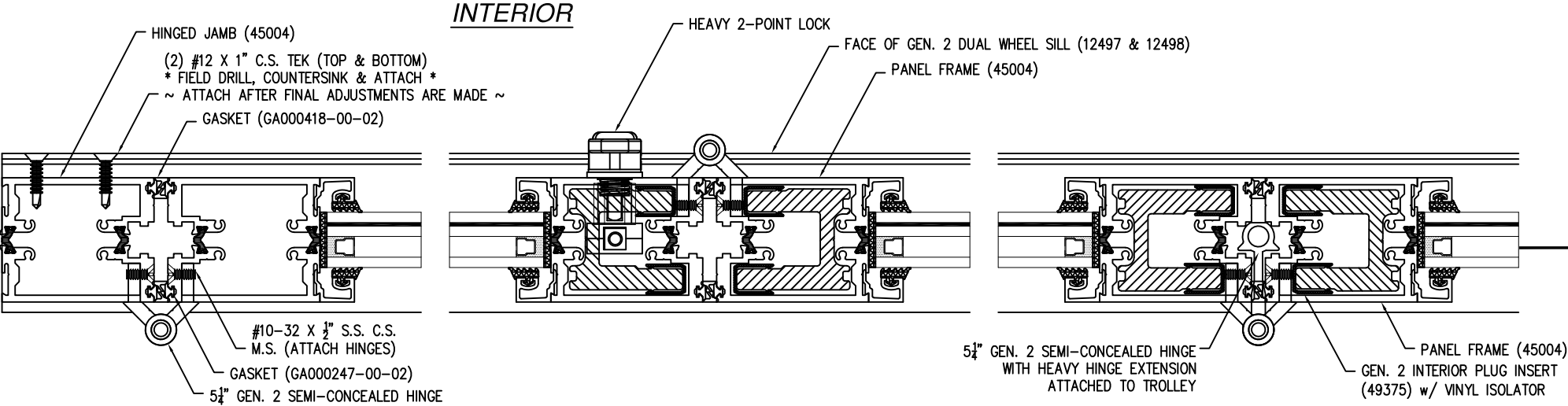
SIGNED: 04/15/2026

SOLAR INNOVATIONS, INC. 31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI3000 FGW 3X8 PANEL OUTFOLD ALL WALL IMPACT - HVHZ PANIC BAR & GLAZING DETAILS		
DRAWN: V.L.	DWG NO. 08-01795	REV H
SCALE NTS	DATE 10/12/2012	SHEET 6 OF 13
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

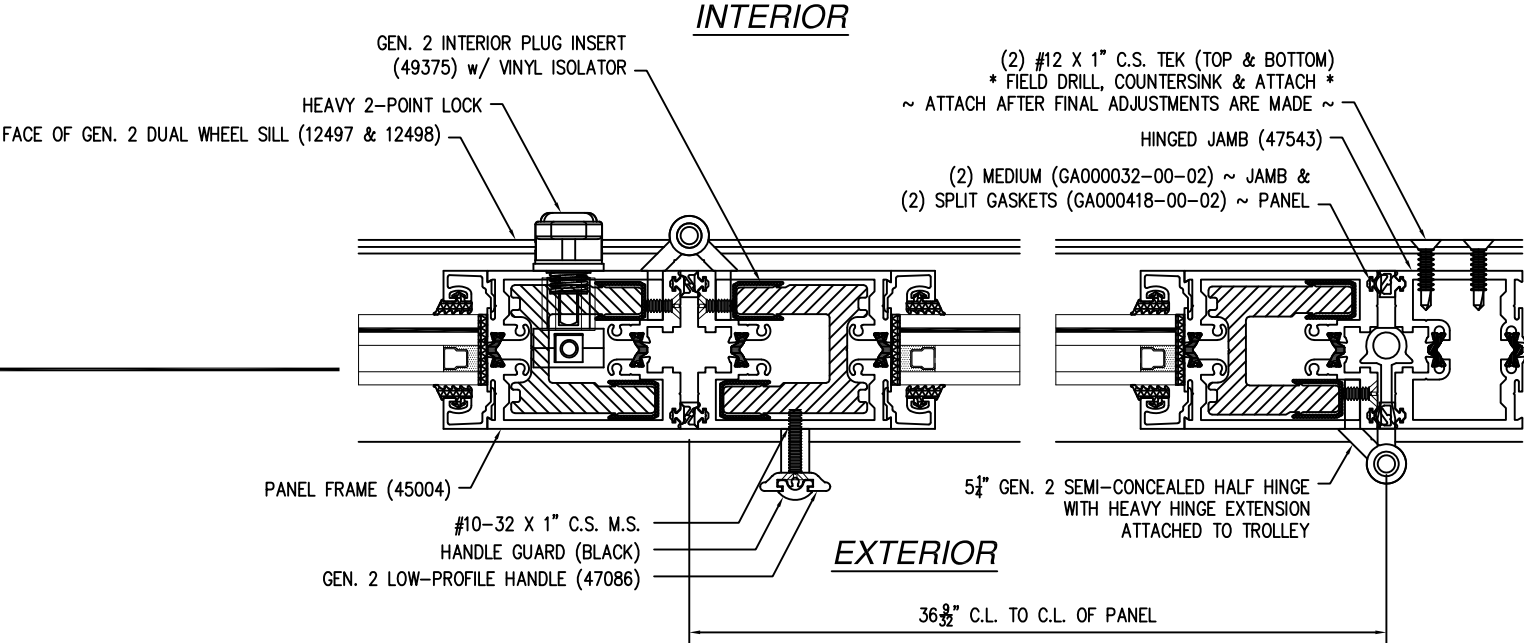


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EXTERIOR



HORIZONTAL CROSS SECTION

FOR ILLUSTRATION PURPOSES ONLY
FOR INSTALLATION DETAILS
REFER TO SHEETS 9 - 11

SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 FGW 3X8 PANEL OUTFOLD ALL WALL
IMPACT – HVHZ
HORIZONTAL CROSS SECTIONS

DRAWN: V.L.

DWG NO. 08-01795

REV H

SCALE NTS

DATE 10/12/2012

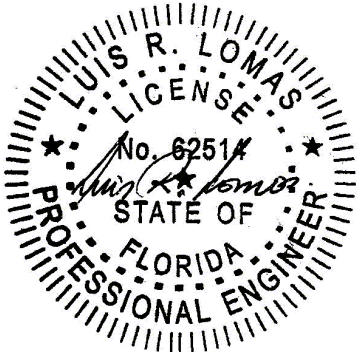
SHEET 7 OF 13

L. ROBERTO LOMAS P.E.

208 7th Ave, INDIALANTIC, FL 32903

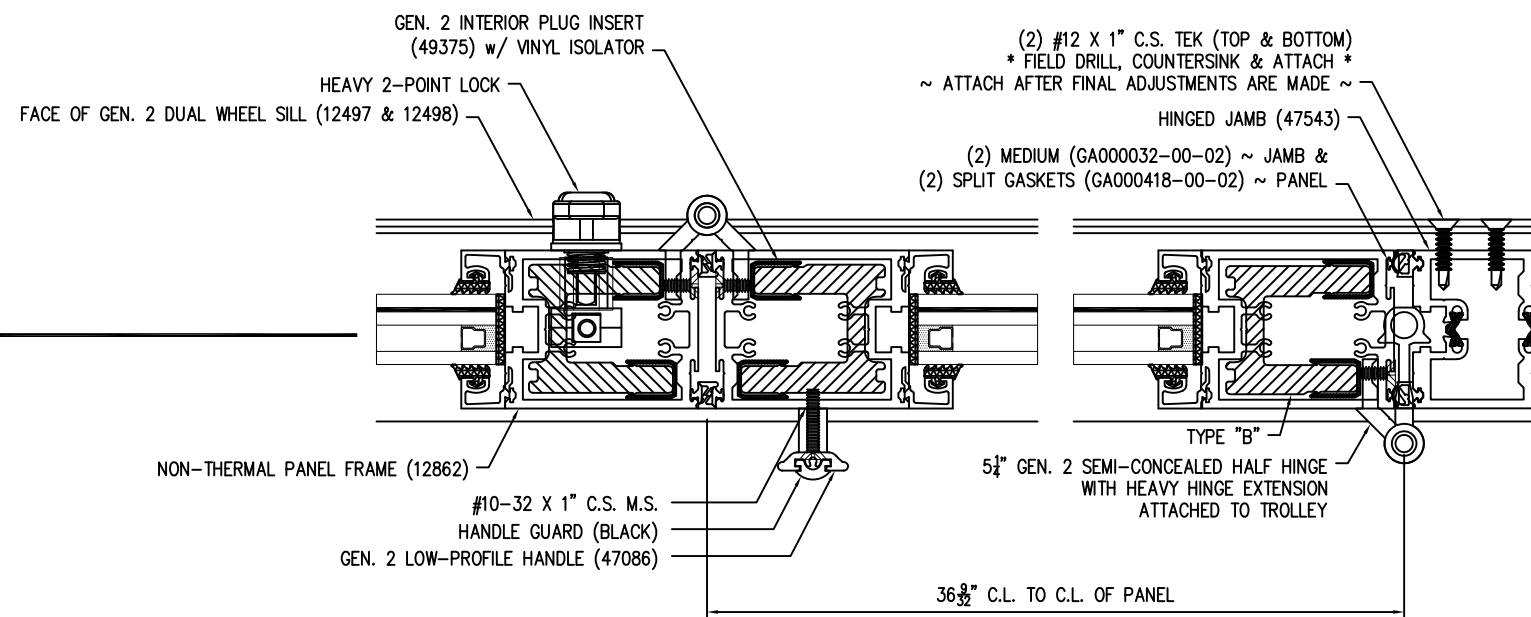
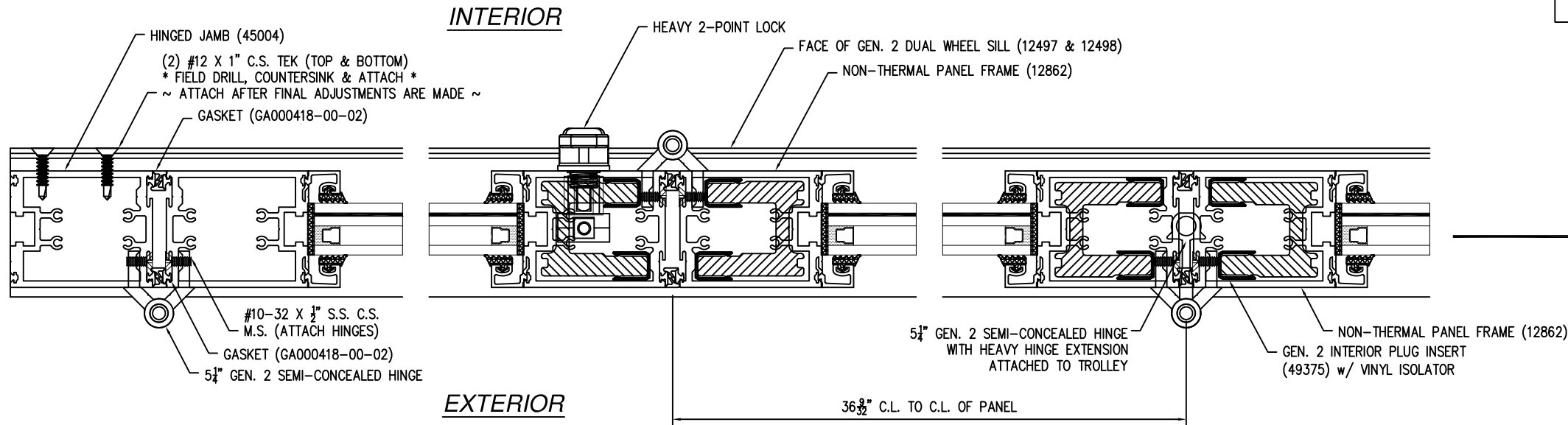
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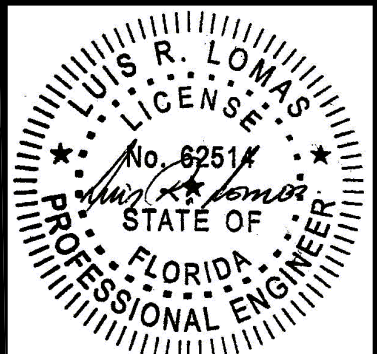


**HORIZONTAL CROSS SECTION
WITH NON-THERMAL RAILS**

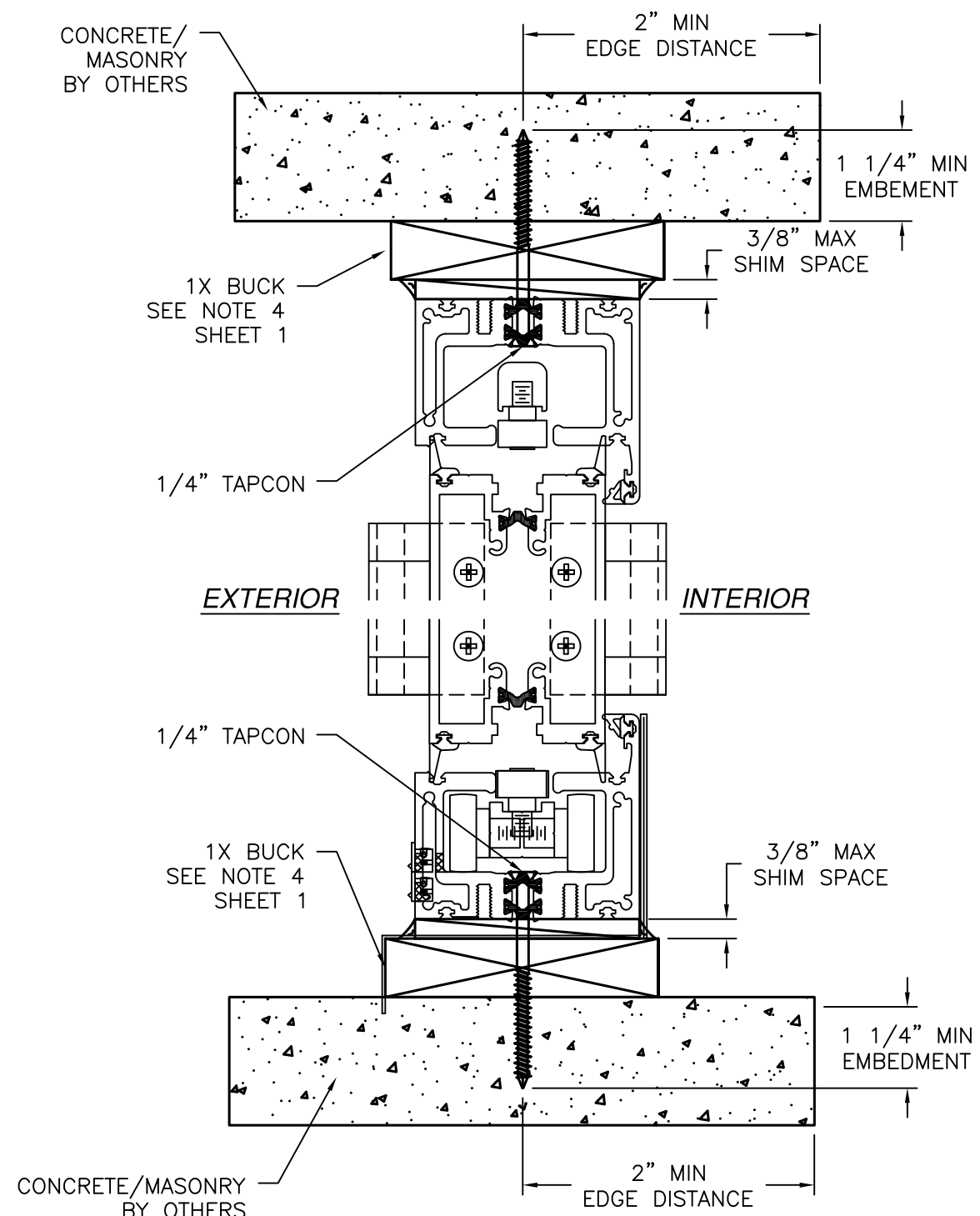
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FOR INSTALLATION DETAILS
REFER TO SHEETS 9 - 11**

SIGNED: 04/15/2026

SOLAR INNOVATIONS, INC. 31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI3000 FGW 3X8 PANEL OUTFOLD ALL WALL IMPACT - HVHZ HORIZON CROSS SECTIONS (NON-THERMAL PANELS)		
DRAWN: V.L.	DWG NO. 08-01795	REV H
SCALE NTS	DATE 10/12/2012	SHEET 8 OF 13
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

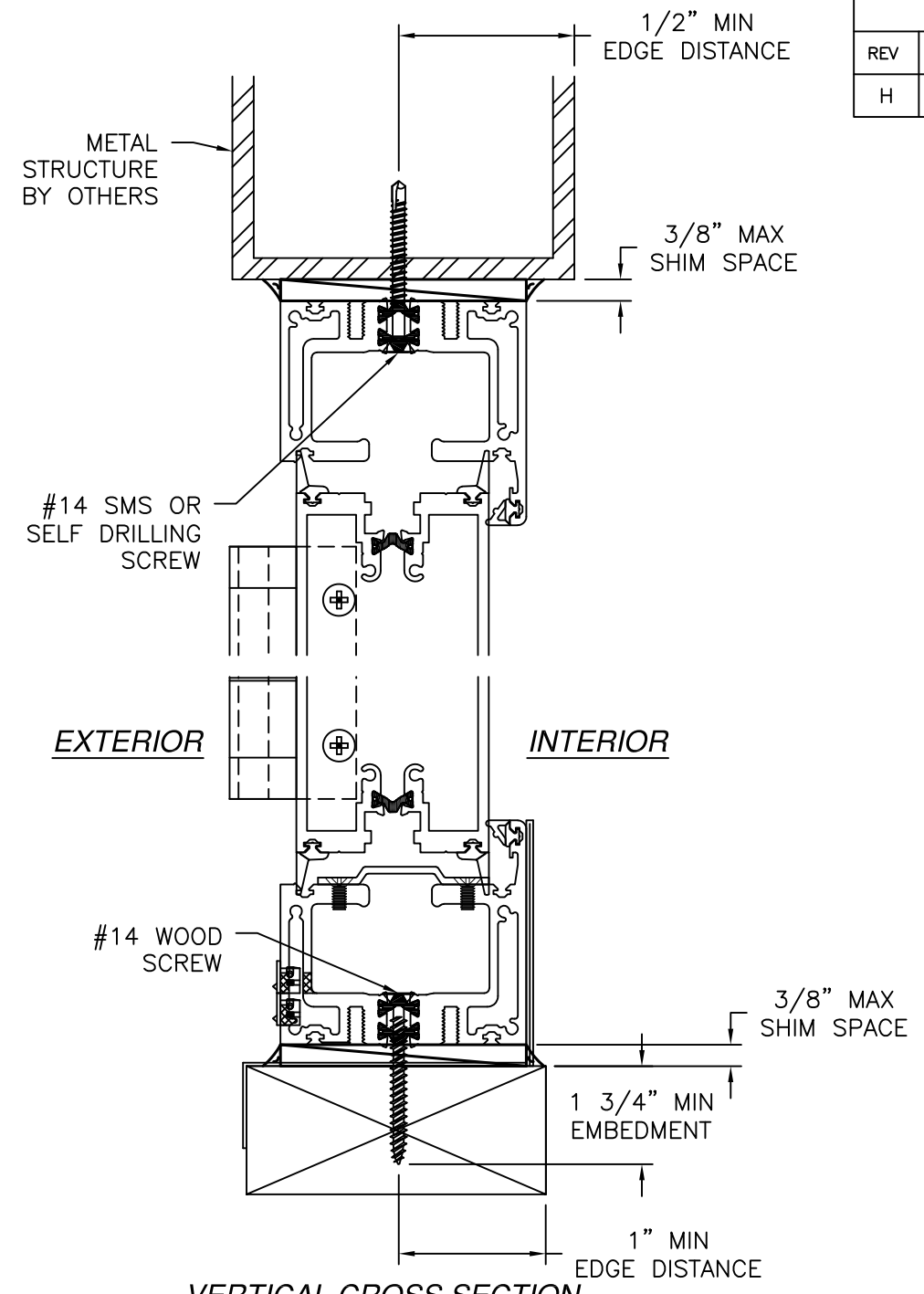


Luis R. Lomas P.E.
FL No.: 62514



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

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
STANDARD SILL SHOWN FLUSH SILL SIMILAR

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
H	REVISED DETAILS	04/15/26	R.L.

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

SERIES SI3000 FGW 3X8 PANEL OUTFOLD ALL WALL
IMPACT – HVHZ
INSTALLATION DETAILS

DRAWN:
V.L.

DWG NO.
08-01795

REV
H

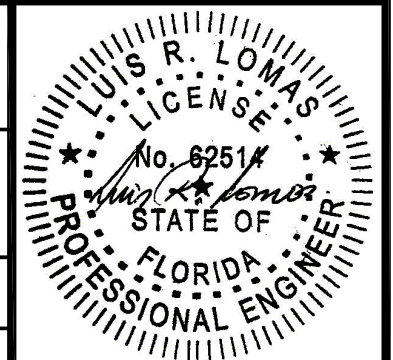
SCALE NTS

DATE 10/12/2012

SHEET 9 OF 13

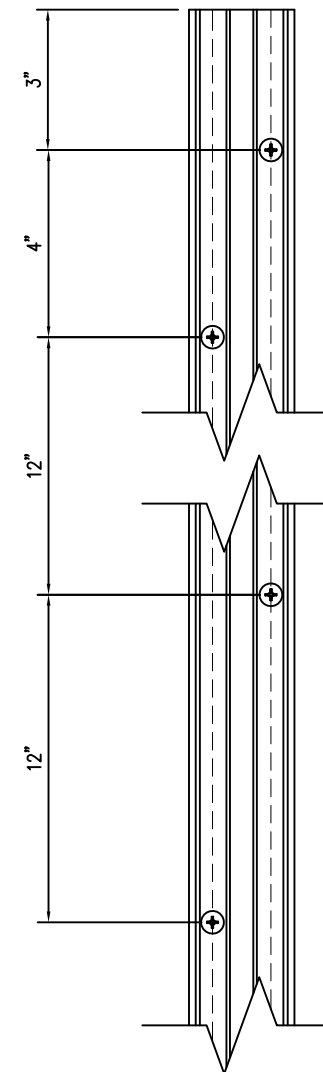
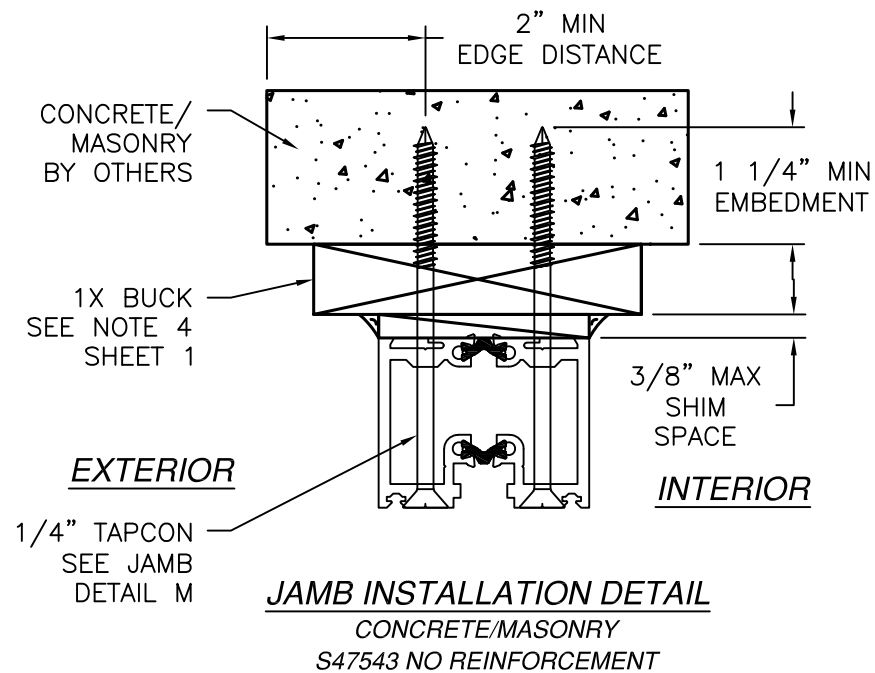
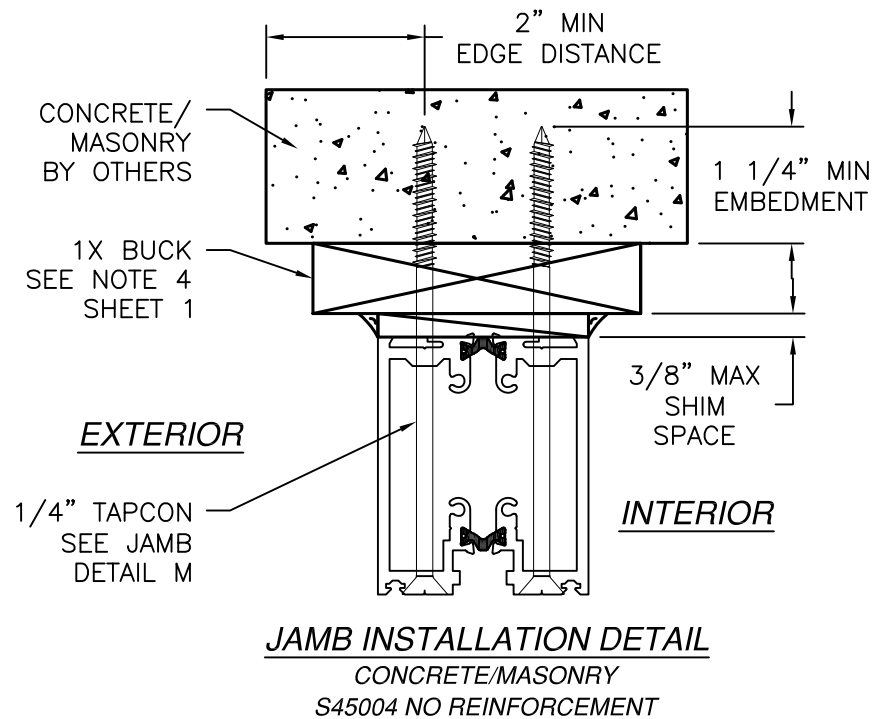
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 04/15/2026



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
H	REVISED DETAILS	04/15/26	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 OUTFOLD ALL WALL
IMPACT – HVHZ
INSTALLATION DETAILS

DRAWN:
V.L.

DWG NO.
08-01795

REV
H

SCALE
NTS

DATE
10/12/2012

SHEET
10 OF 13

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

SIGNED: 04/15/2026

LUIS R. LOMAS

LICENS. M.S.

No. 62514

STATE OF

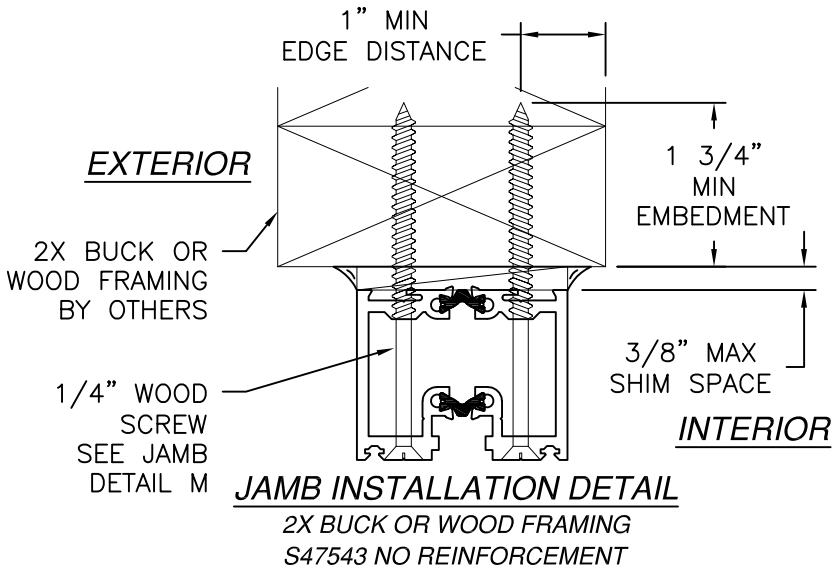
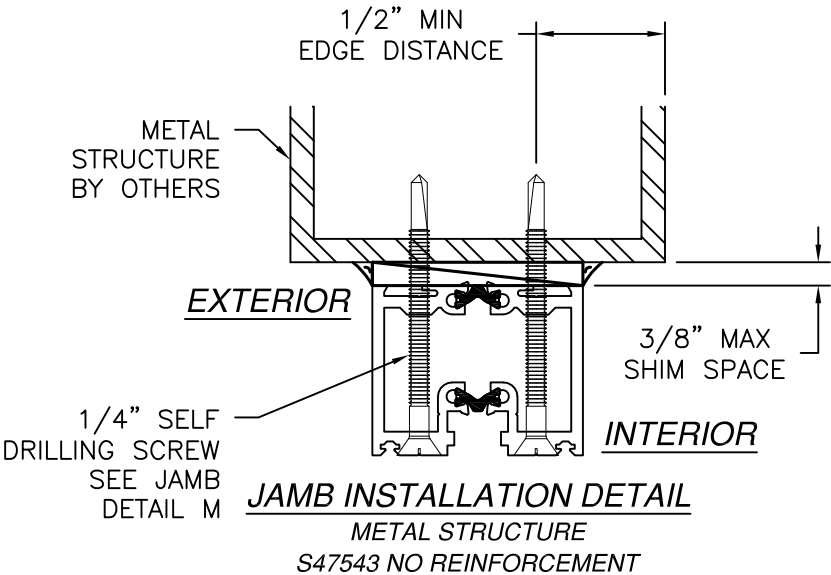
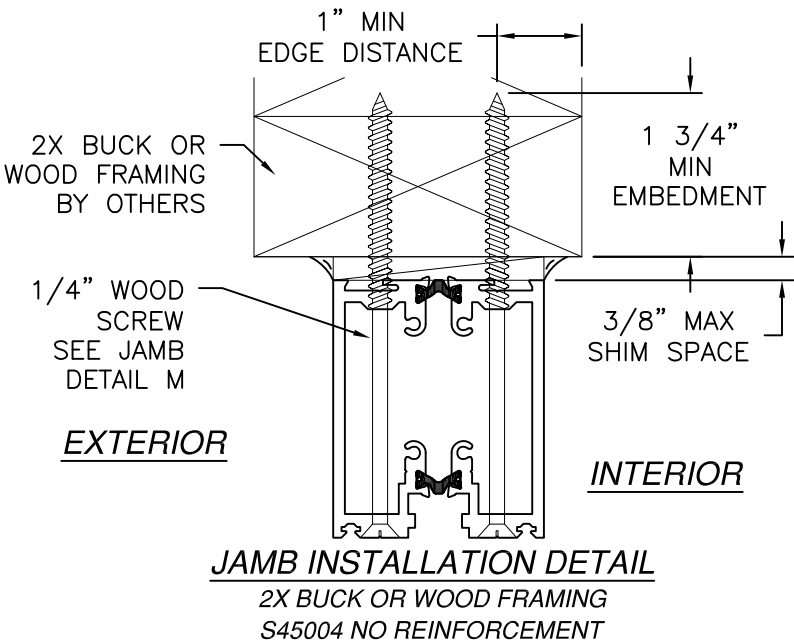
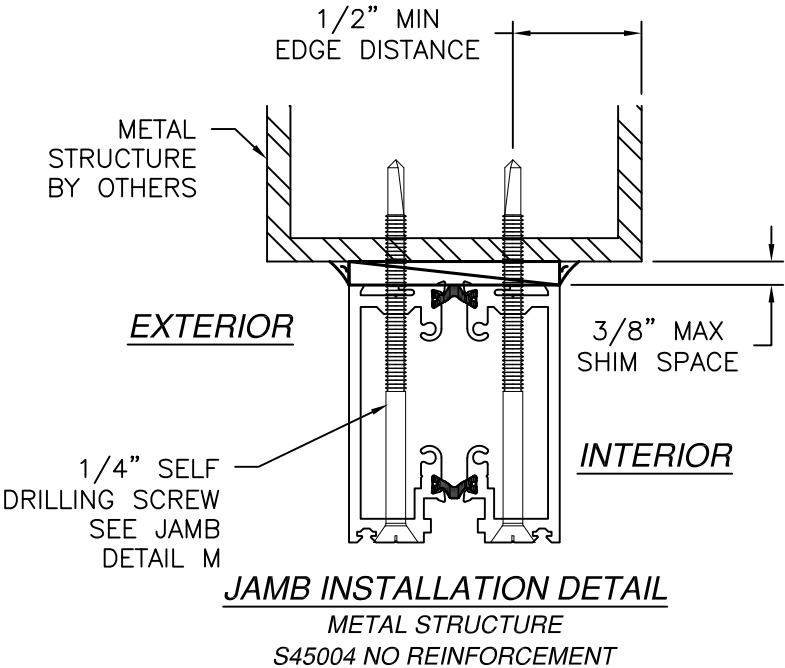
FLORIDA

PROFESSIONAL ENGINEER

Luis R. Lomas P.E.

FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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SERIES SI3000 FGW 3X8 PANEL OUTFOLD ALL WALL
IMPACT – HVHZ
INSTALLATION DETAILS

DRAWN: V.L.

DWG NO. 08-01795

REV H

SCALE NTS

DATE 10/12/2012

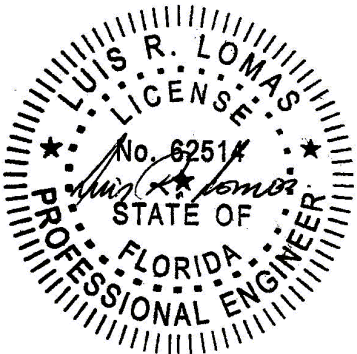
SHEET 11 OF 13

L. ROBERTO LOMAS P.E.

208 7th Ave, INDIALANTIC, FL 32903

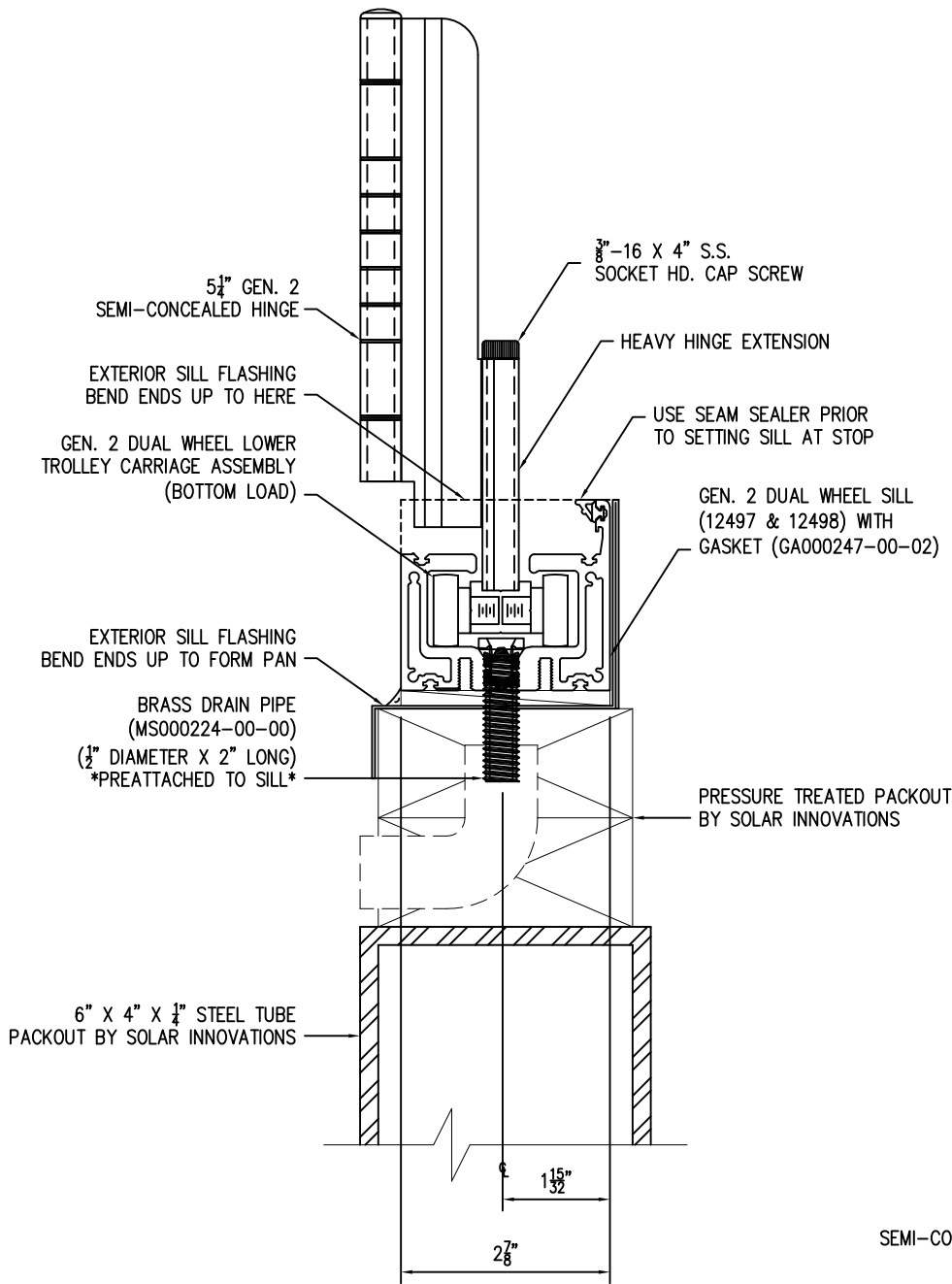
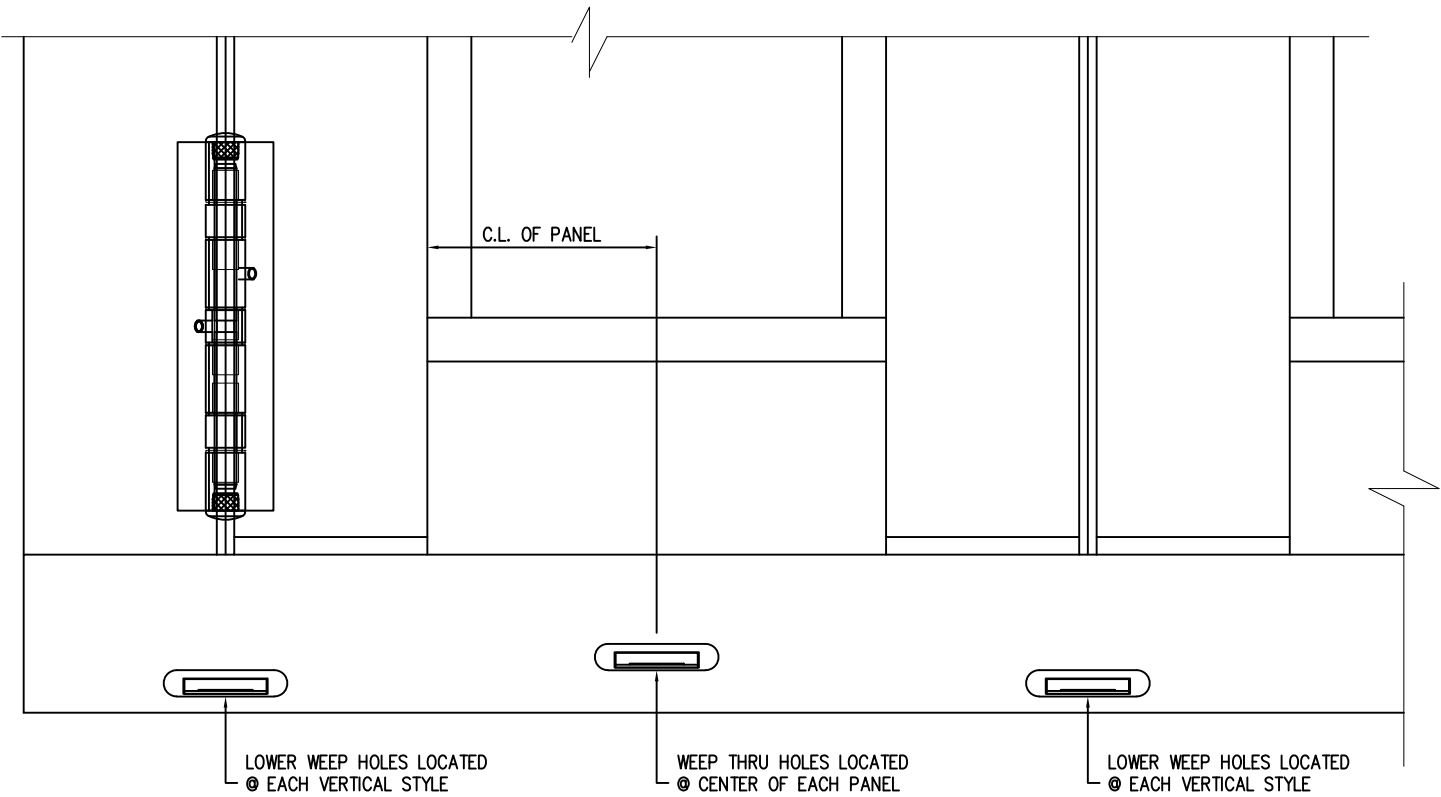
434-688-0609 rllomas@lrlomaspe.com

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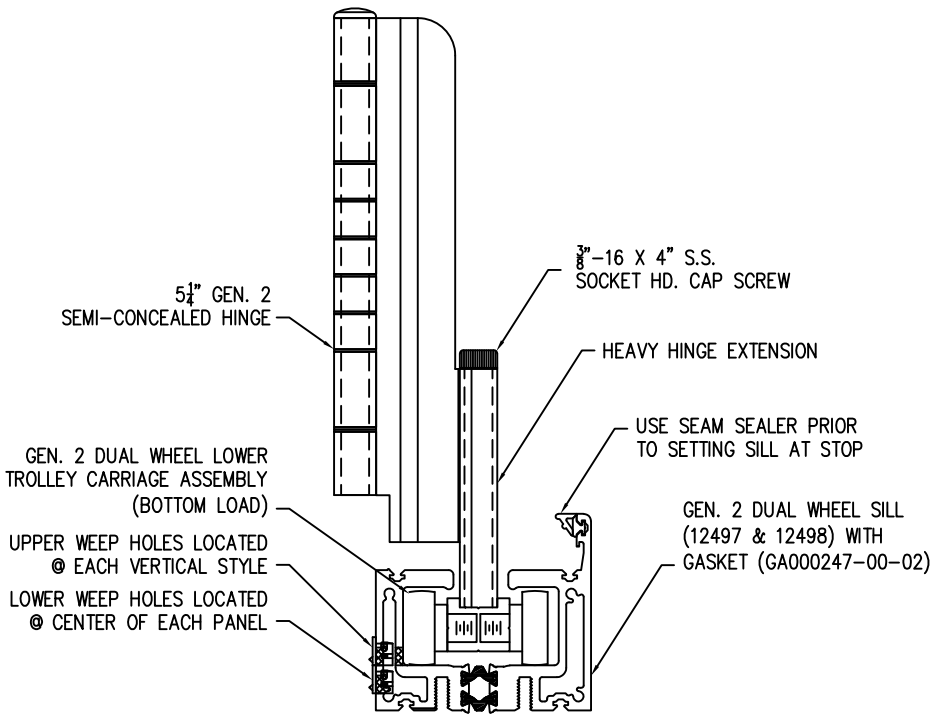


Luis R. Lomas P.E.
 FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
H	REVISED DETAILS	04/15/26	R.L.



DRAIN PIPE AND HINGE EXTENSION DETAIL



WEEP HOLE AND HINGE EXTENSION DETAIL

SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 FGW 3X8 PANEL OUTFOLD ALL WALL
IMPACT – HVHZ
WEEP DETAILS

DRAWN: V.L.

DWG NO. 08-01795

REV H

SCALE NTS

DATE 10/12/2012

SHEET 12 OF 13

L. ROBERTO LOMAS P.E.

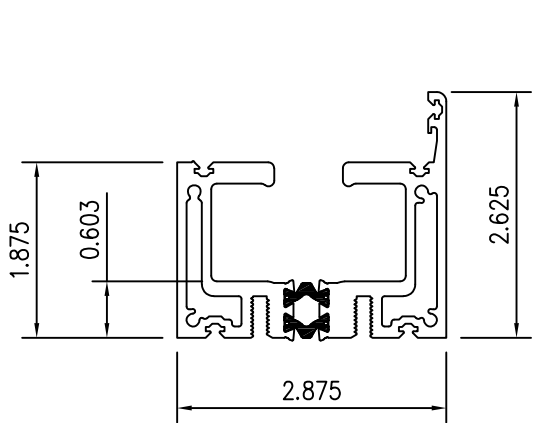
208 7th Ave, INDIALANTIC, FL 32903

434-688-0609 rllomas@lrlomaspe.com

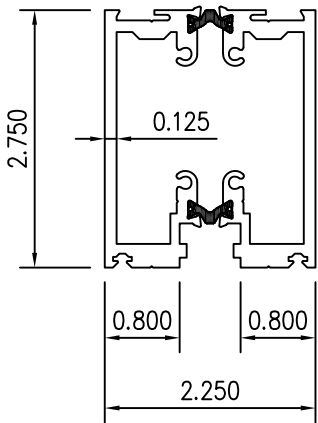
SIGNED: 04/15/2026

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FL No.: 62514

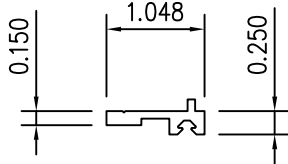
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
H	REVISED DETAILS	04/15/26	R.L.



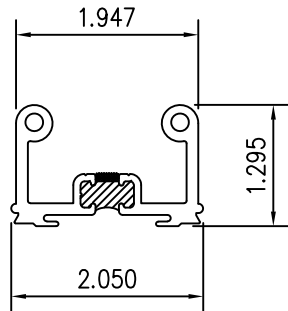
DUAL WHEEL
HEAD / SILL



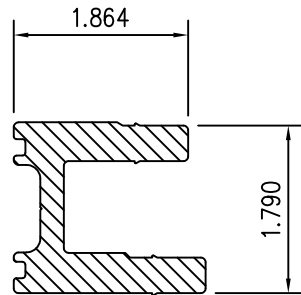
REGULAR THERMAL
FRAME



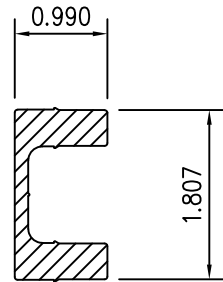
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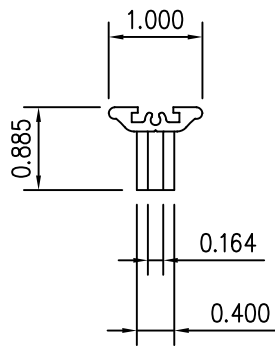
FRAME
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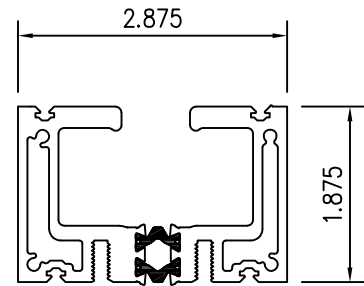
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INSERT



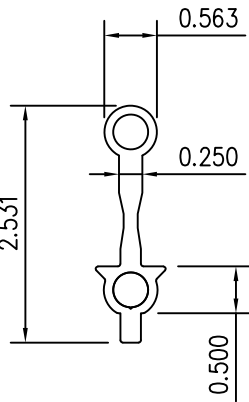
PANIC BAR
ALUMINUM INSERT



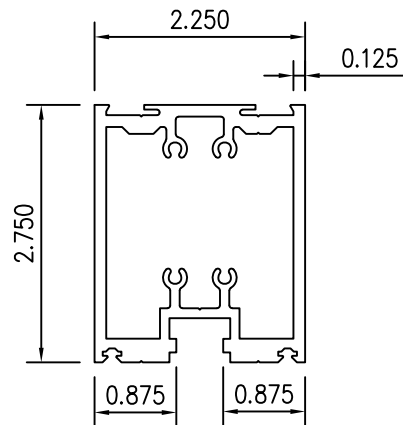
LOW-PROFILE
HANDLE



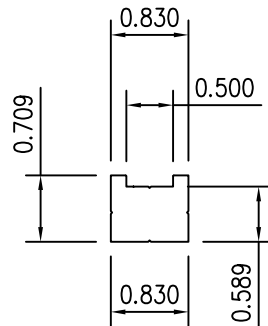
FLUSH SILL



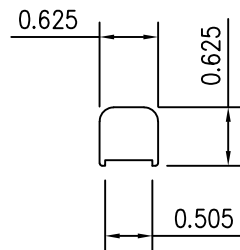
HINGE
EXTENSION



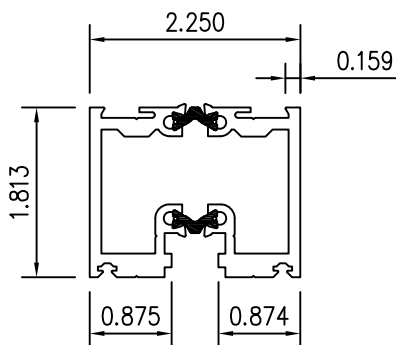
NON-THERMAL FRAME



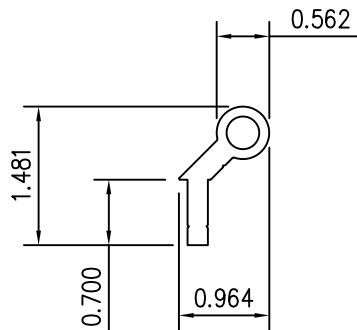
TROLLEY
BODY



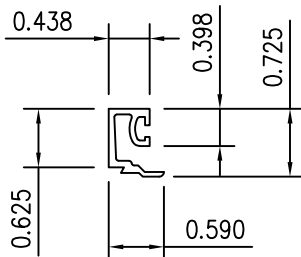
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BODY



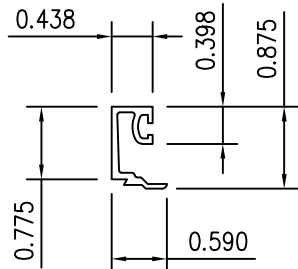
NARROW FRAME



5 1/4" SEMI-
CONCEALED HINGE



1" GLASS
STOP



1/2" GLASS
STOP

SOLAR INNOVATIONS, INC.

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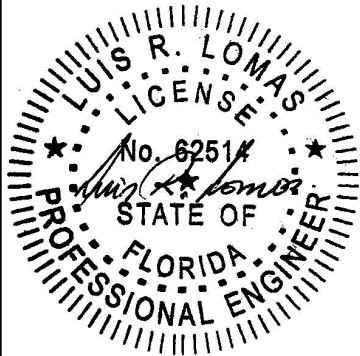
SERIES SI3000 FGW 3X8 PANEL OUTFOLD ALL WALL
IMPACT - HVHZ
COMPONENTS

DRAWN: V.L.	DWG NO. 08-01795	REV H
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SCALE NTS	DATE 10/12/2012	SHEET 13 OF 13
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