

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED DETAILS	04/22/26	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
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, WITH SAFETY GLAZING.
8. APPROVED IMPACT PROTECTIVE SYSTEM IS 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: 04/22/2026

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SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

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

DRAWN:
J.L.

DWG NO.
08-01959

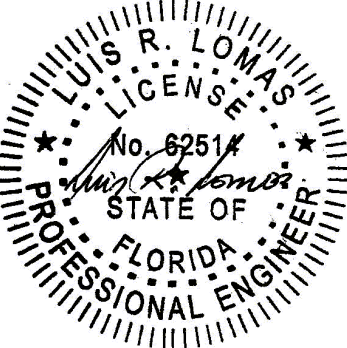
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DATE 04/19/13

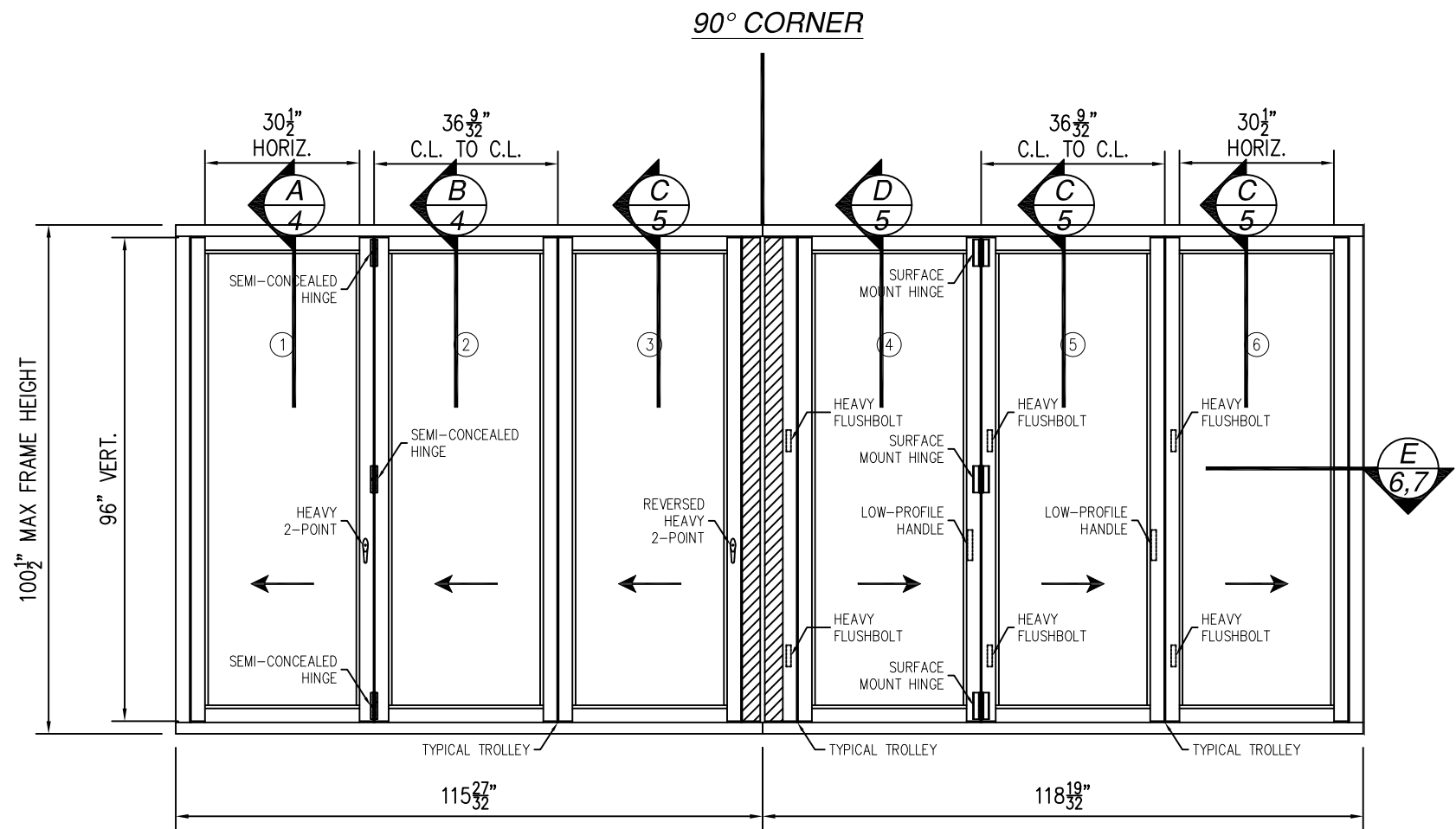
SHEET 1 OF 13

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



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	NONE

WHERE WATER RESISTANCE IS REQUIRED
SEE CHART #1 SHEET 3

DESIGN PRESSURE RATING	IMPACT RATING
±80.0PSF	NONE

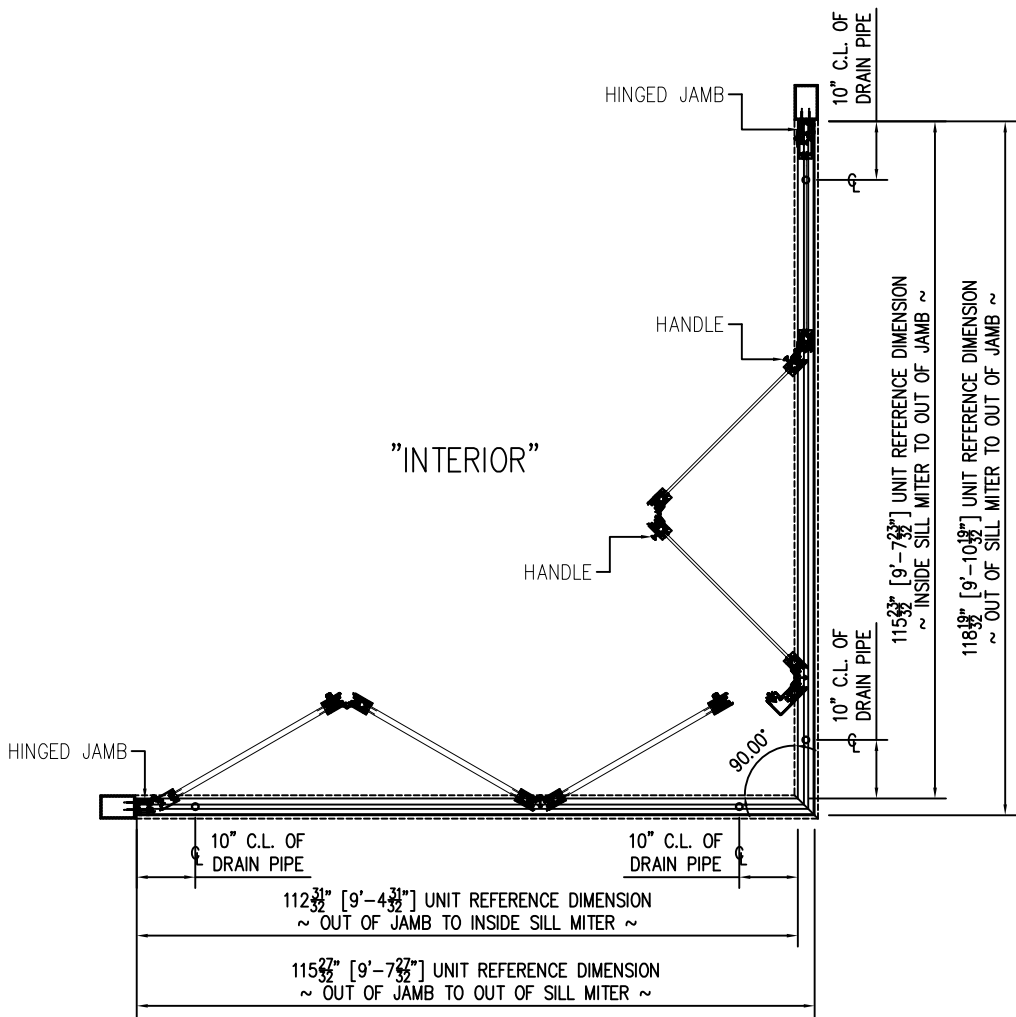
WHERE WATER RESISTANCE IS NOT REQUIRED
SEE CHART #2 SHEET 3

DESIGN PRESSURE RATING	IMPACT RATING
+60.0/-70.0PSF	NONE

WITH FLUSH SILL
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 MS000442-00-XX BY SOLAR INNOVATIONS



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

PLAN VIEW

SIGNED: 04/22/2026

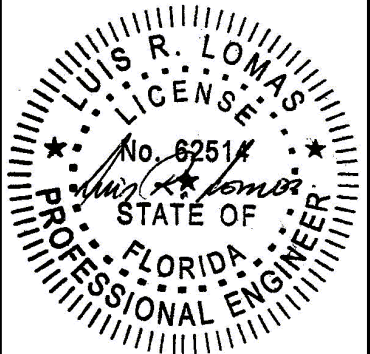
SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

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

DRAWN: J.L.	DWG NO. 08-01959	REV D
SCALE NTS	DATE 04/19/13	SHEET 2 OF 13

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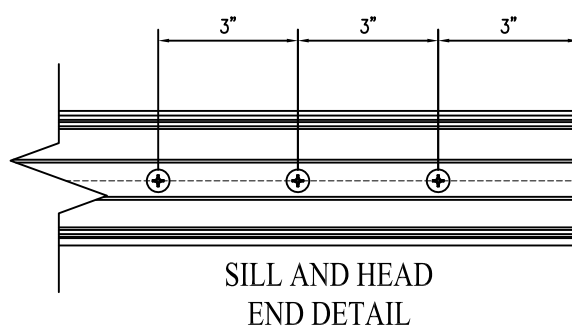
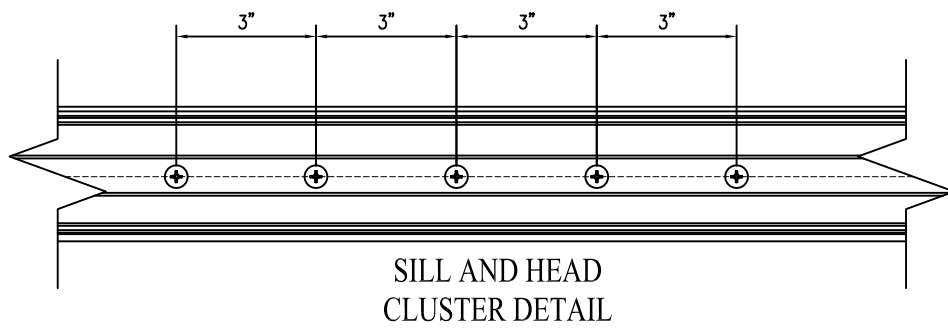
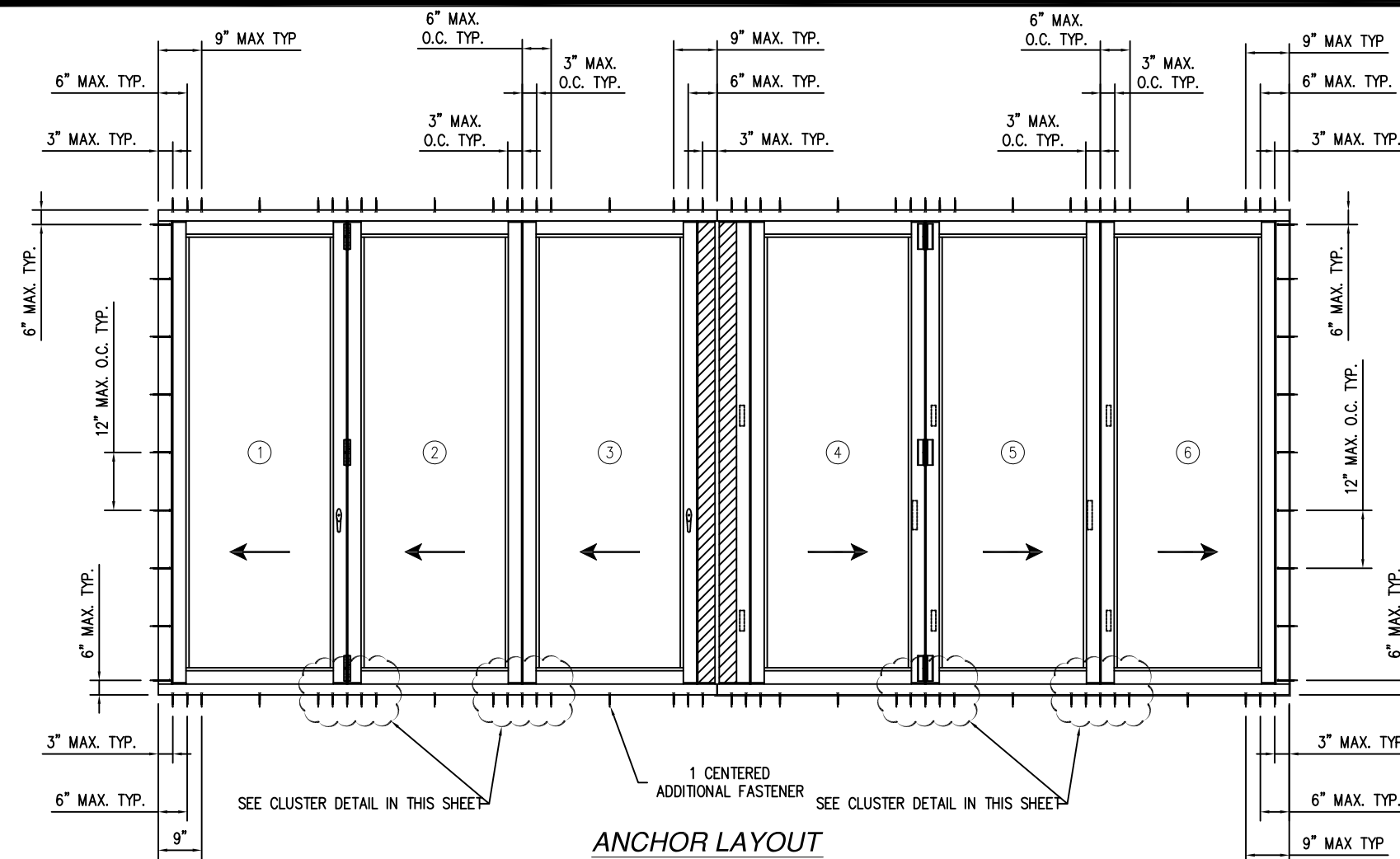


Chart # 1 Maximum Design pressure (psf)										
Panel Height (in)	Single Panel Width (in)									
	24.0		30.0		36.281		42.0		44.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
78.0	60.0	120.0	60.0	119.1	60.0	98.5	60.0	85.1	60.0	81.2
84.0	60.0	120.0	60.0	109.2	60.0	91.4	-	-	-	-
90.0	60.0	120.0	60.0	100.4	60.0	85.3	-	-	-	-
96.0	60.0	112.1	60.0	93.0	60.0	80.0	-	-	-	-
102.0	60.0	97.3	60.0	78.8	-	-	-	-	-	-
108.0	60.0	81.8	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	120.0	120.0	119.1	119.1	98.5	98.5	85.1	85.1	81.2	81.2
84.0	120.0	120.0	109.2	109.2	91.4	91.4	-	-	-	-
90.0	120.0	120.0	100.4	100.4	85.3	85.3	-	-	-	-
96.0	112.1	112.1	93.0	93.0	80.0	80.0	-	-	-	-
102.0	97.3	97.3	78.8	78.8	-	-	-	-	-	-
108.0	81.8	81.8	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	105.0	60.0	104.2	60.0	86.2	60.0	74.4	60.0	71.0
84.0	60.0	105.0	60.0	95.5	60.0	80.0	-	-	-	-
90.0	60.0	105.0	60.0	87.9	60.0	74.7	-	-	-	-
96.0	60.0	98.1	60.0	81.4	60.0	70.0	-	-	-	-
102.0	60.0	85.1	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-NON IMPACT
ANCHORING LAYOUT AND DESIGN PRESSURE CHARTS

DRAWN: J.L. DWG NO. 08-01959 REV D

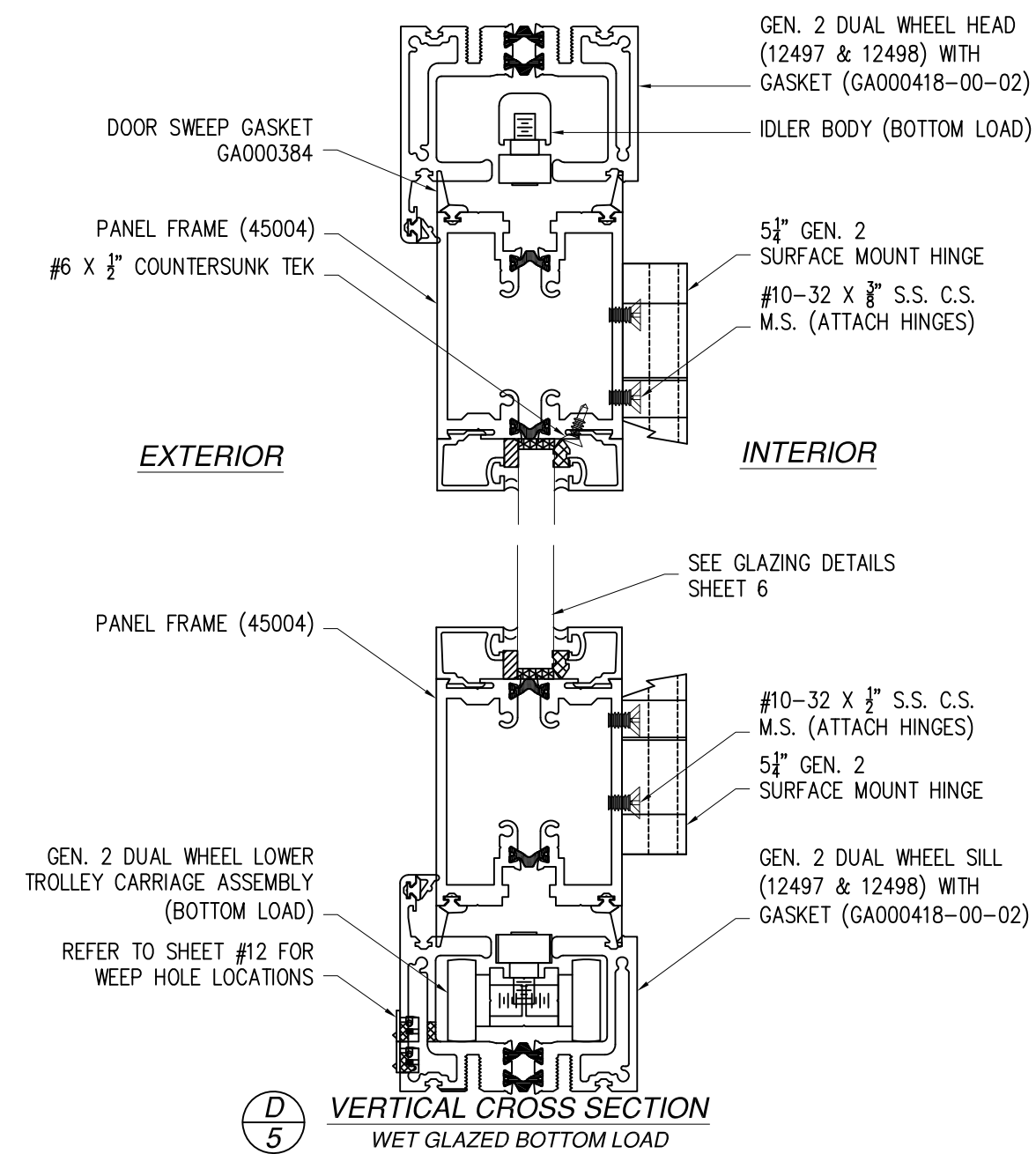
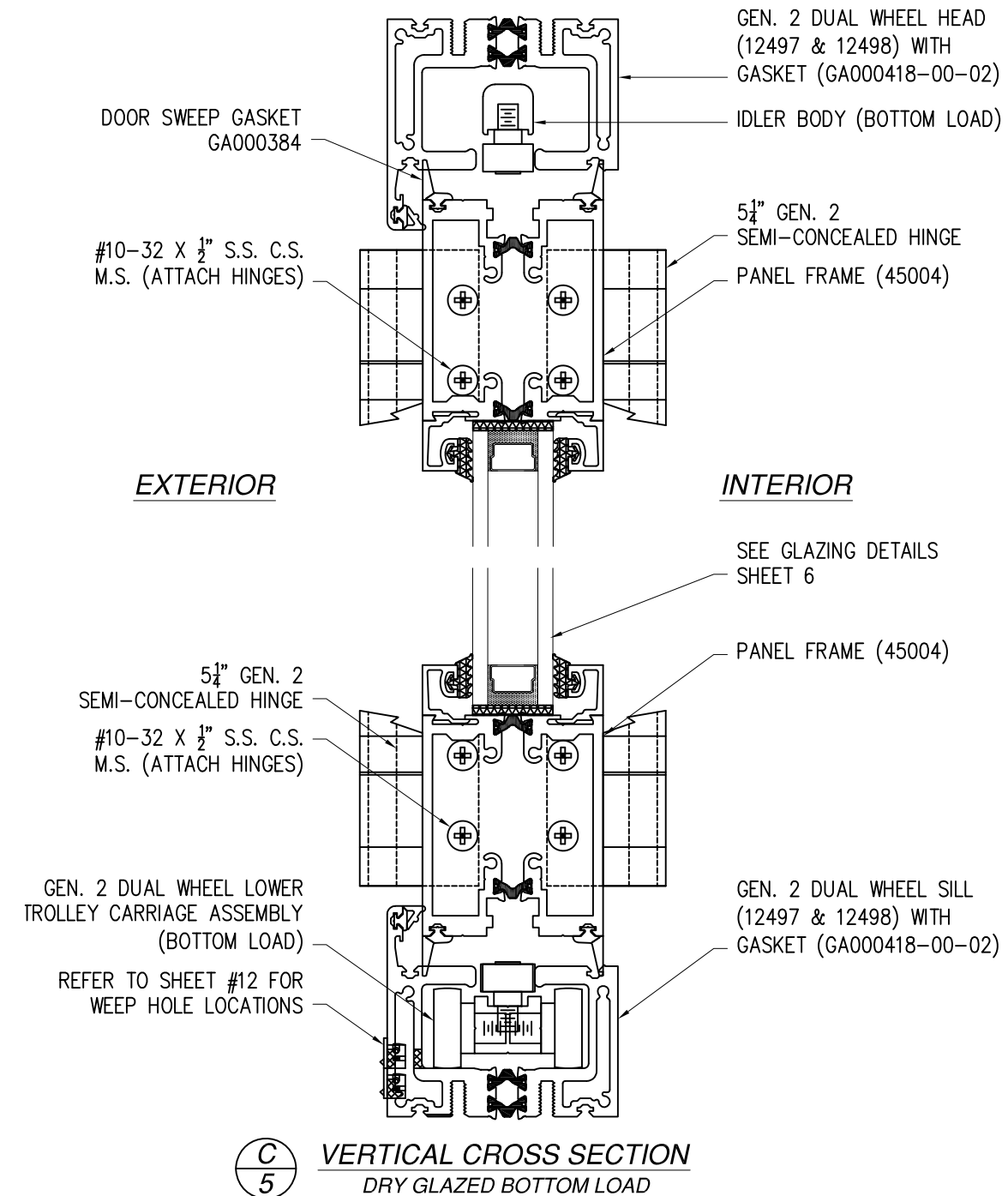
SCALE NTS DATE 04/19/13 SHEET 3 OF 13

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SIGNED: 04/22/2026

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

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SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 FGW 3X8 PANEL 90° CORNER

NO POST INFOLD-NON IMPACT

VERTICAL CROSS SECTIONS

DRAWN: J.L.	DWG NO. 08-01959	REV D
SCALE NTS	DATE 04/19/13	SHEET 5 OF 13

L. ROBERTO LOMAS P.E.

208 7th Ave, INDIALANTIC, FL 32903

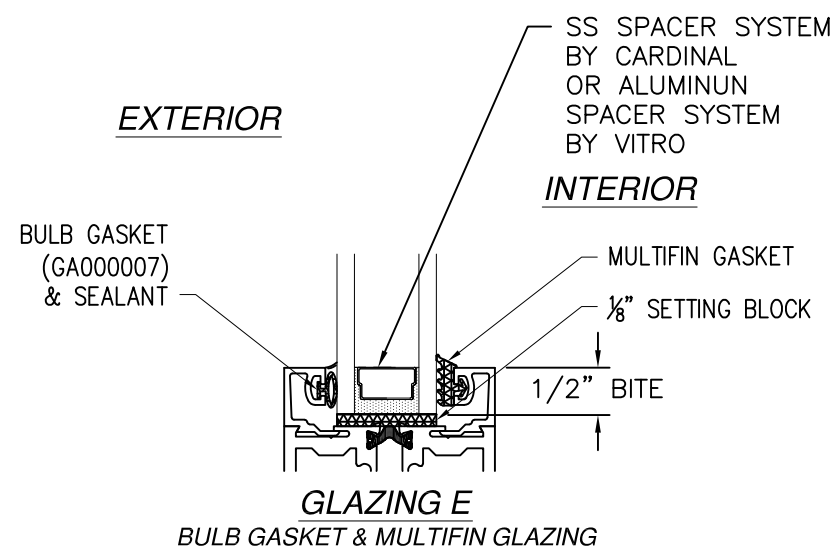
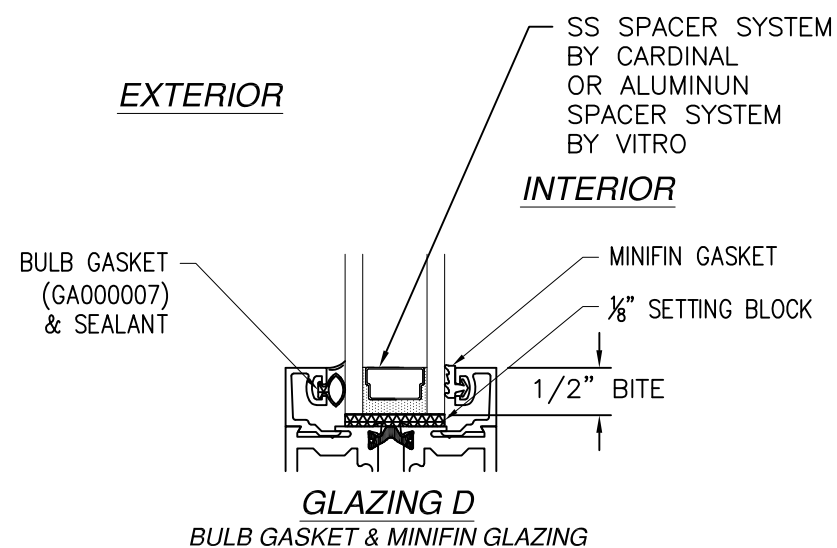
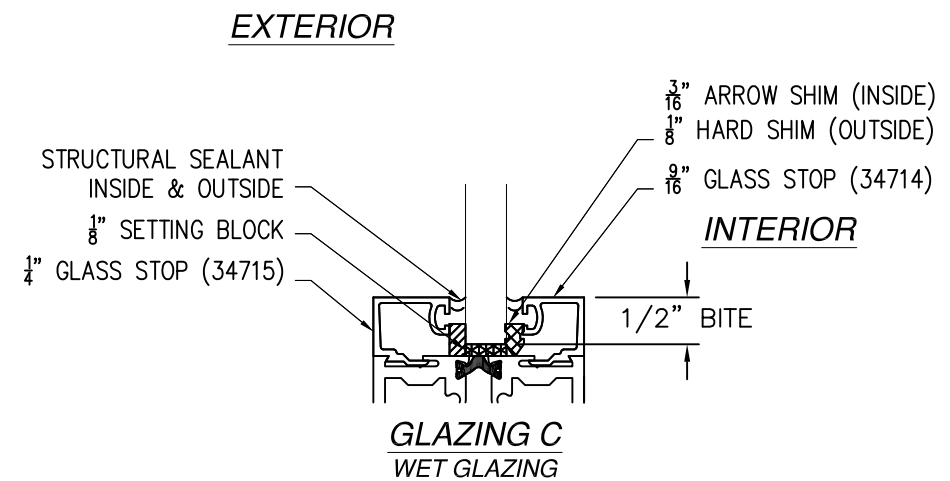
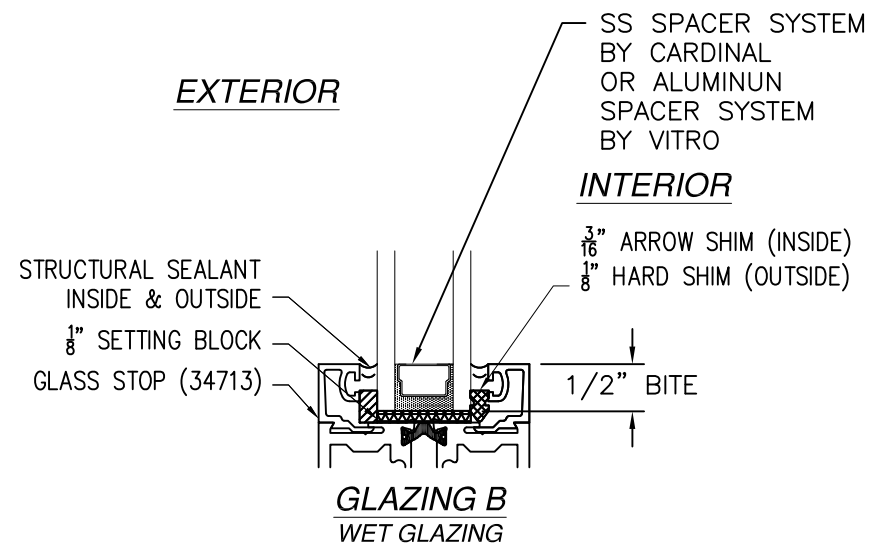
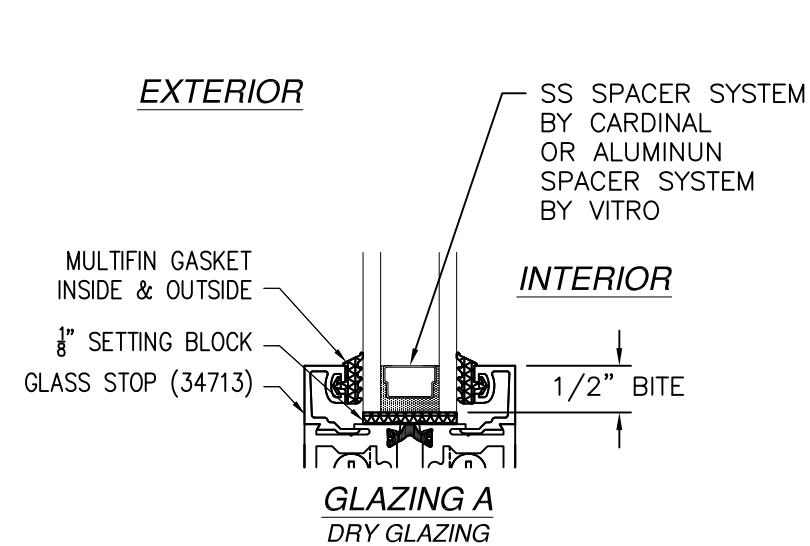
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NOTES:
GLASS TO BE USED IN ALL CONFIGURATIONS MUST BE
SAFETY GLASS

SIGNED: 04/22/2026

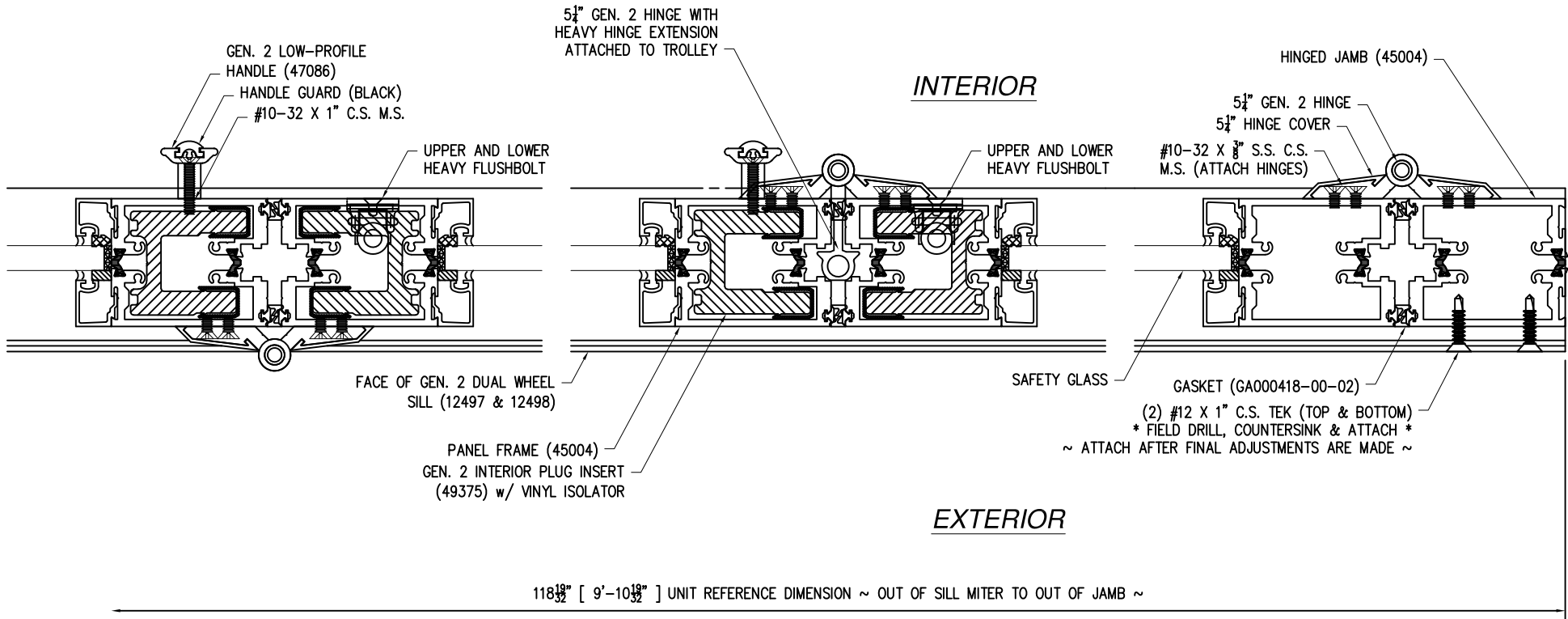
SOLAR INNOVATIONS, INC.		
31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI3000 FGW 3X8 PANEL 90° CORNER NO POST INFOLD-NON IMPACT GLAZING DETAILS		
DRAWN: J.L.	DWG NO. 08-01959	REV D
SCALE NTS	DATE 04/19/13	SHEET 6 OF 13
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

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PROFESSIONAL ENGINEER

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CONTINUED
FROM SHEET 7



E
7 HORIZONTAL CROSS SECTION

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SOLAR INNOVATIONS, INC.

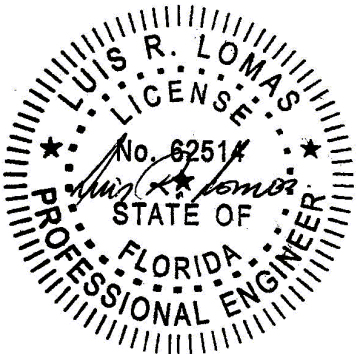
31 ROBERTS RD
PINE GROVE, PA 17963

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

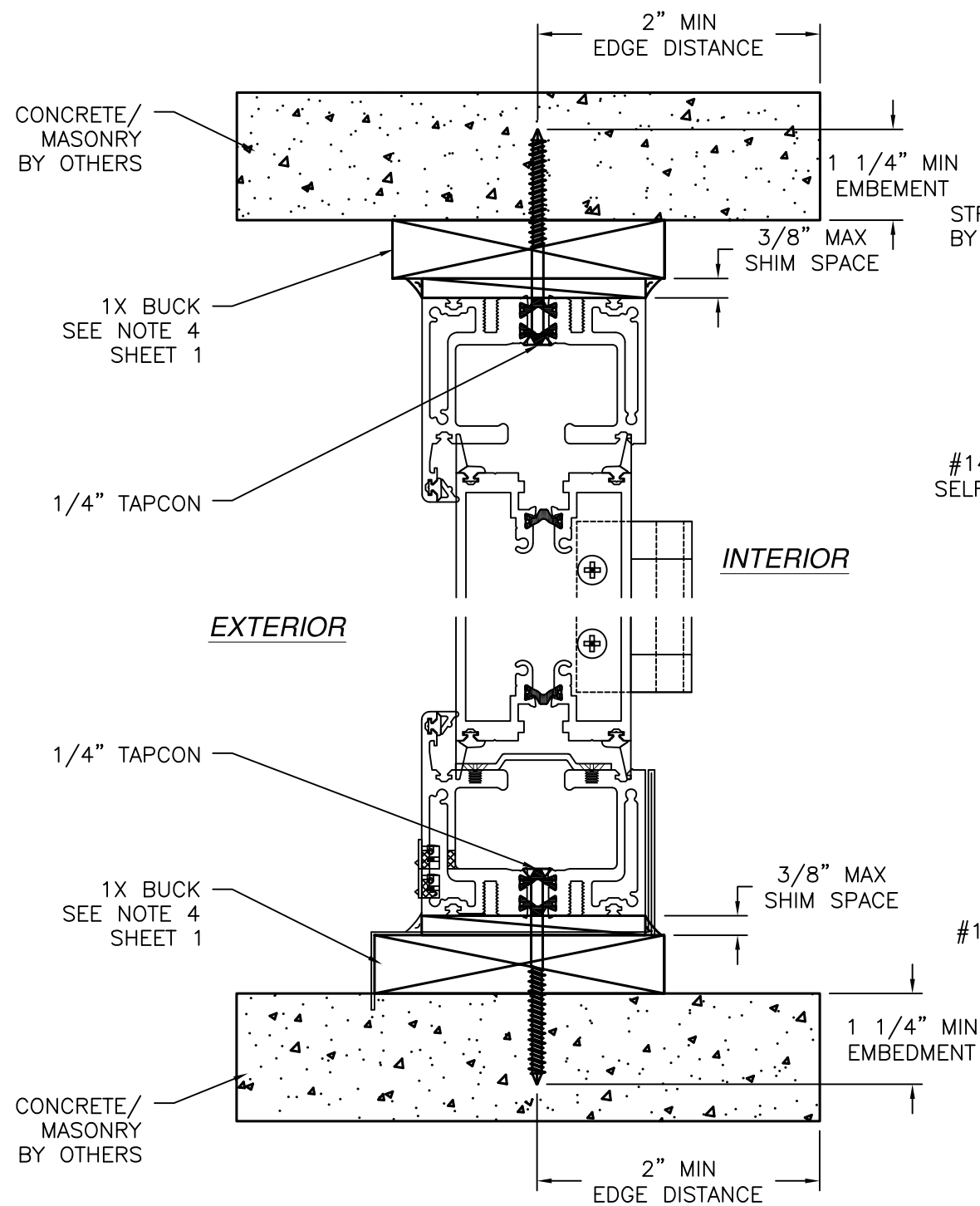
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SCALE NTS	DATE 04/19/13	SHEET 8 OF 13

L. ROBERTO LOMAS P.E.

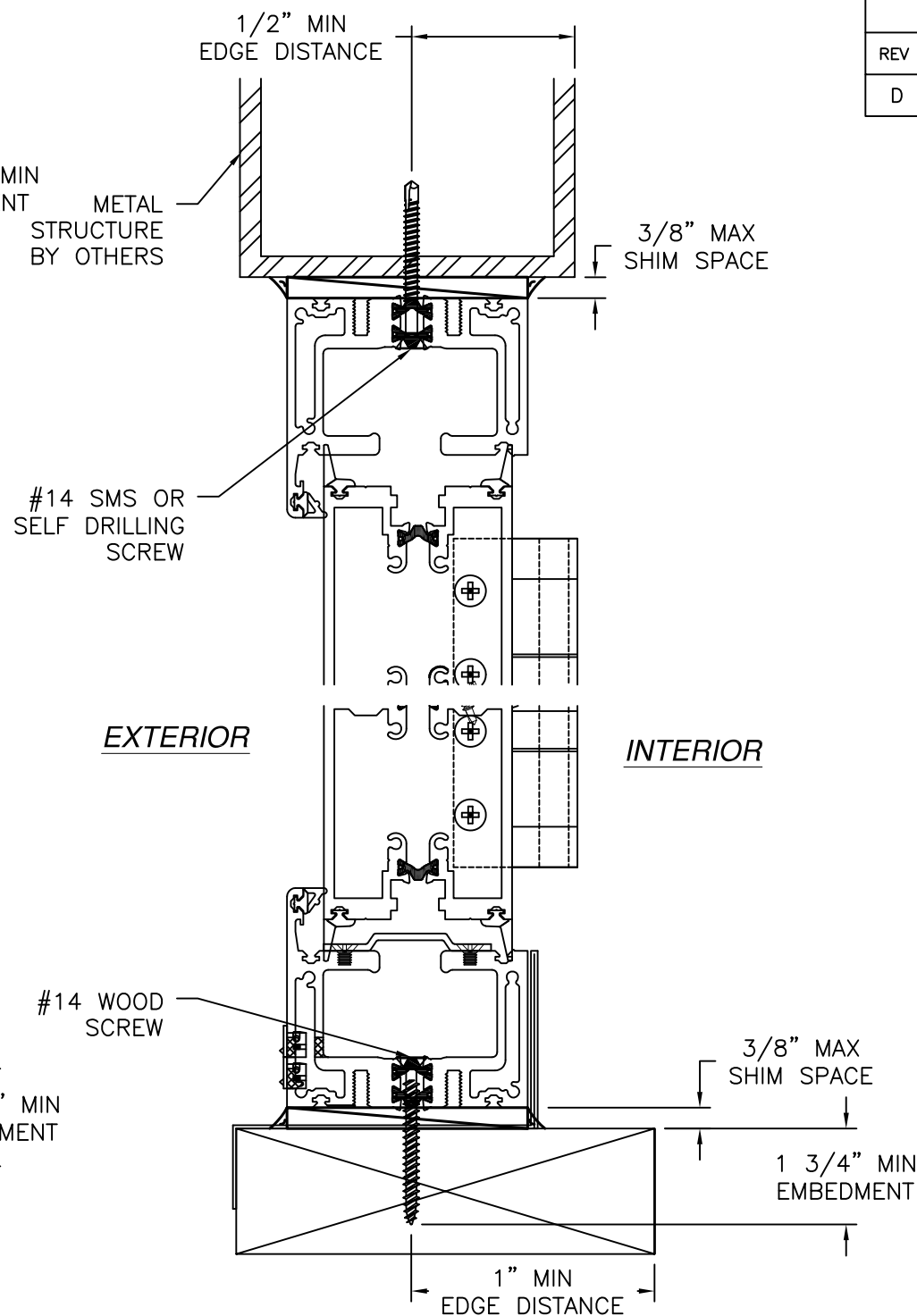
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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION
STANDARD SILL SHOWN
FLUSH SILL SIMILAR



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

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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: 04/22/2026

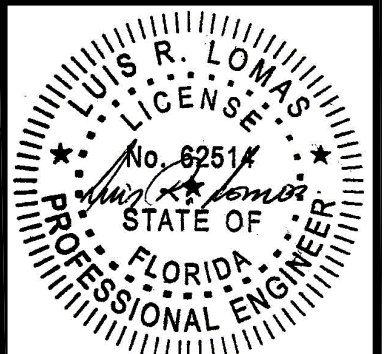
SOLAR INNOVATIONS, INC.

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PINE GROVE, PA 17963

SERIES SI3000 FGW 3X8 PANEL 90° CORNER
NO POST INFOLD-NON IMPACT
INSTALLATION DETAILS

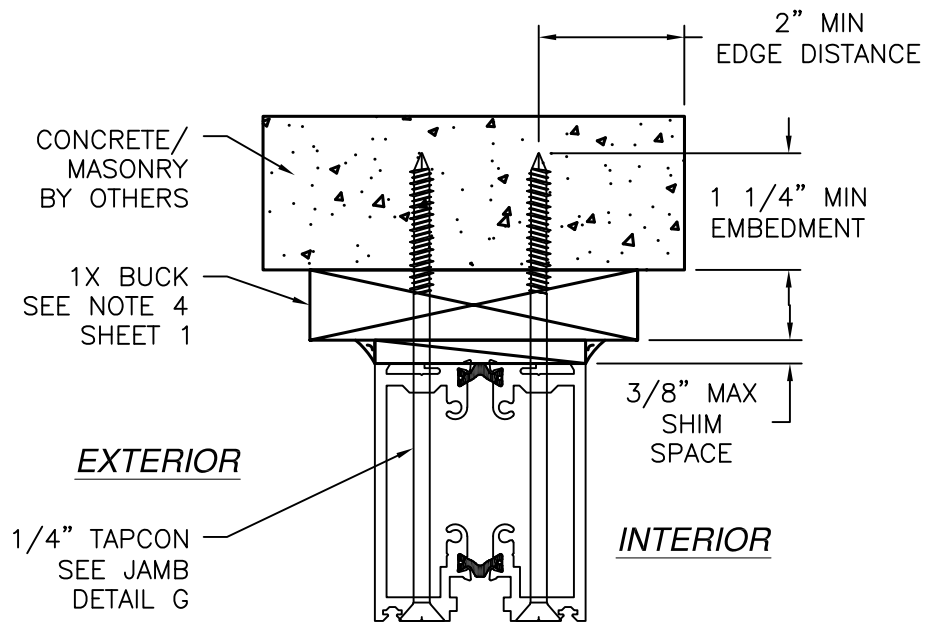
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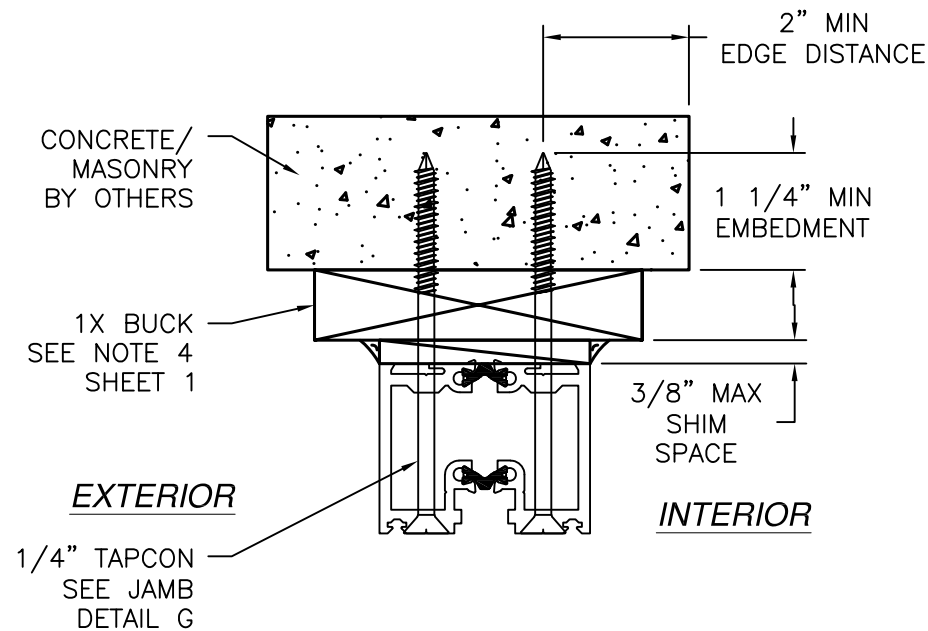


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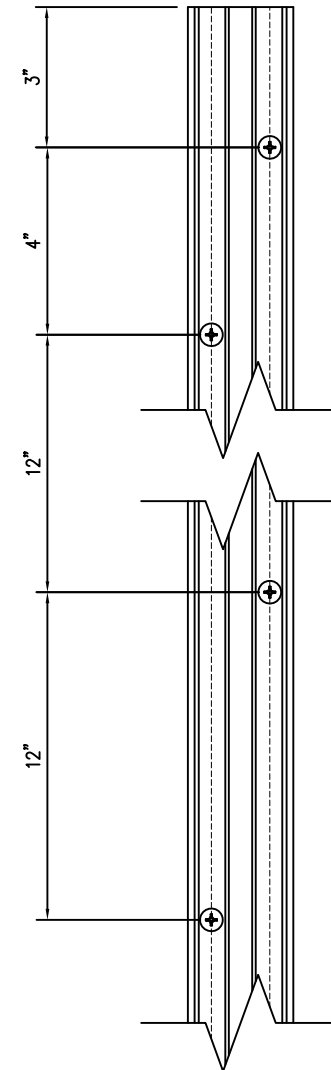
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JAMB INSTALLATION DETAIL
CONCRETE/MASONRY
S45004 NO REINFORCEMENT



JAMB INSTALLATION DETAIL
CONCRETE/MASONRY
S47543 NO REINFORCEMENT



JAMB INSTALLATION DETAIL G
JAMB WITHOUT REINFORCEMENT

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SHEET
10 OF 13

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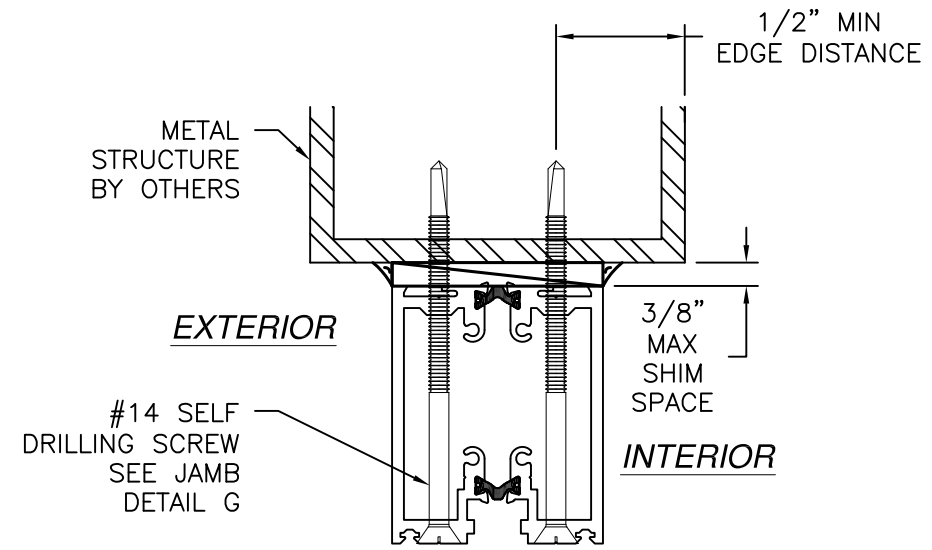
STATE OF FLORIDA

PROFESSIONAL ENGINEER

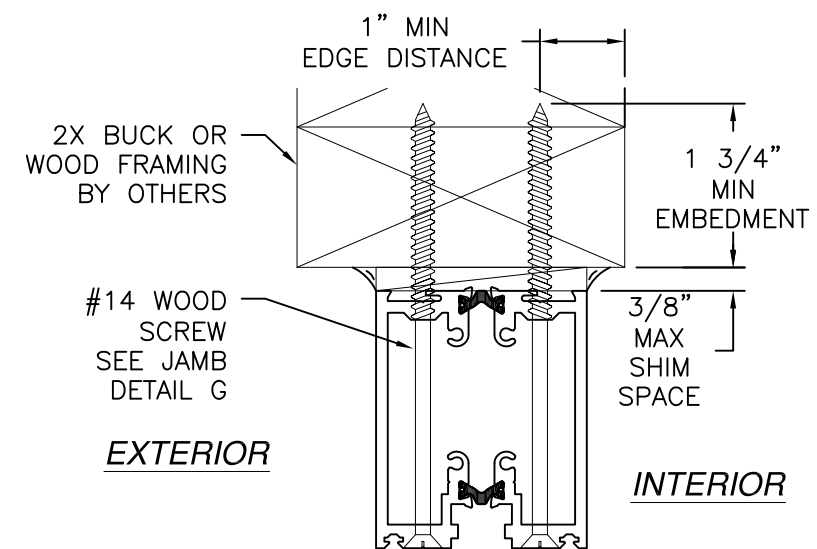
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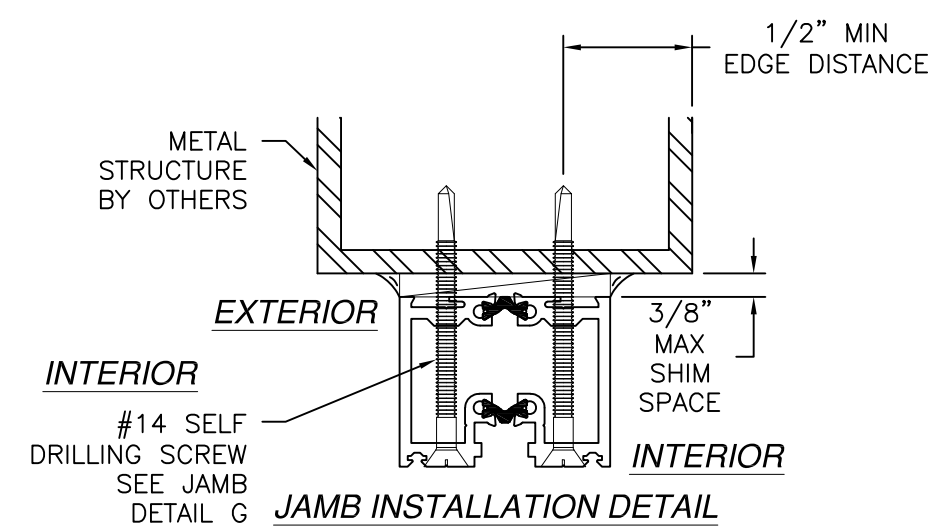
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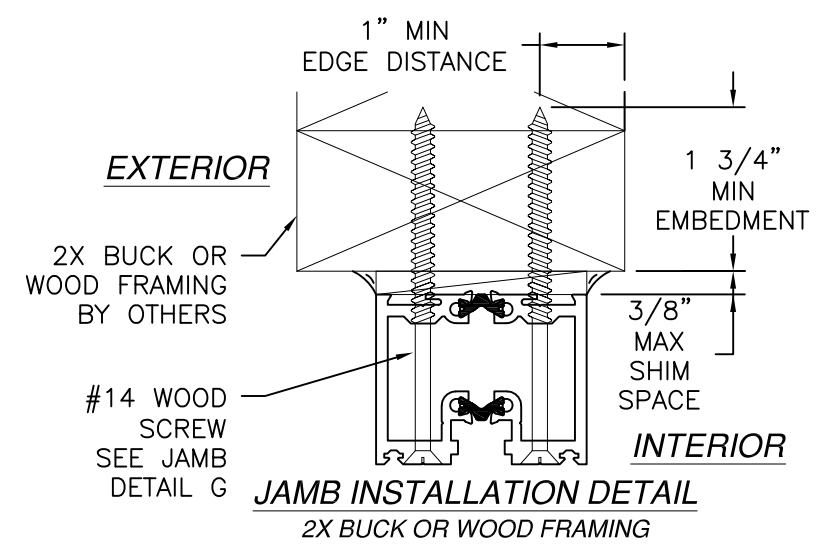
JAMB INSTALLATION DETAIL
METAL STRUCTURE
S45004 NO REINFORCEMENT



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

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DRAWN: J.L.

DWG NO. 08-01959

REV D

SCALE NTS

DATE 04/19/13

SHEET 11 OF 13

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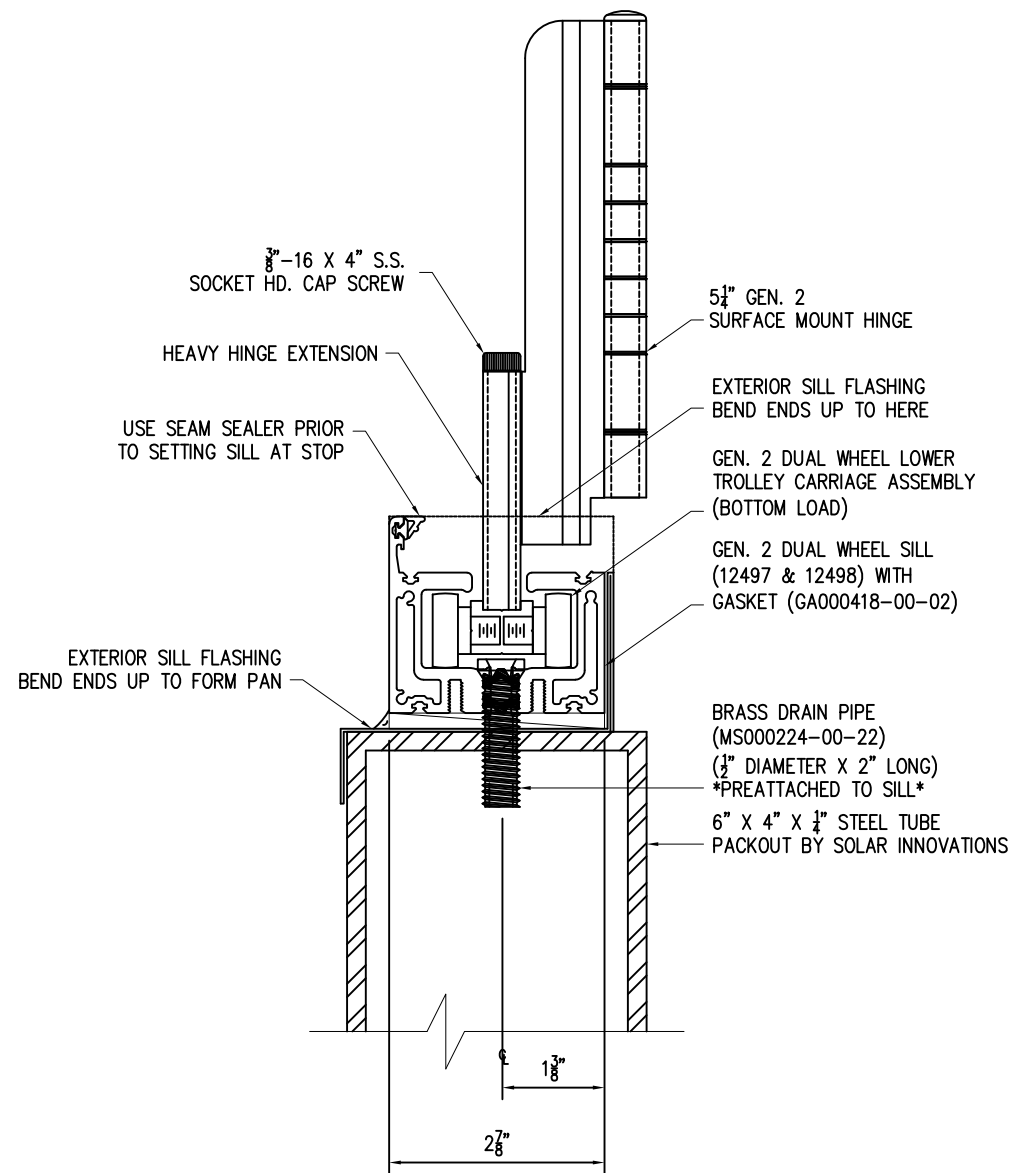
STATE OF FLORIDA

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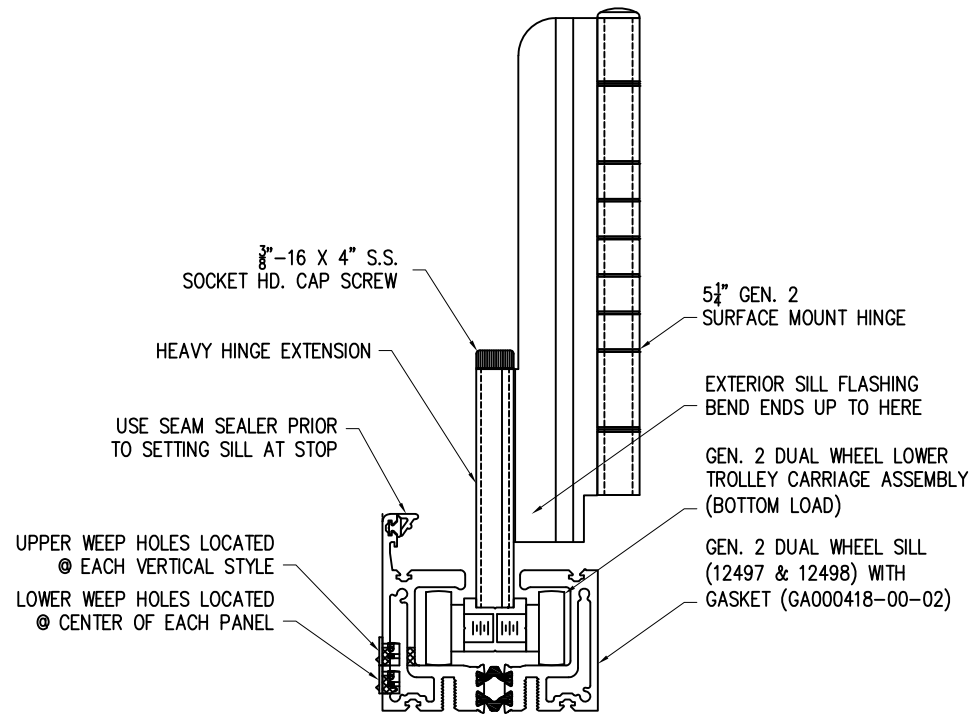
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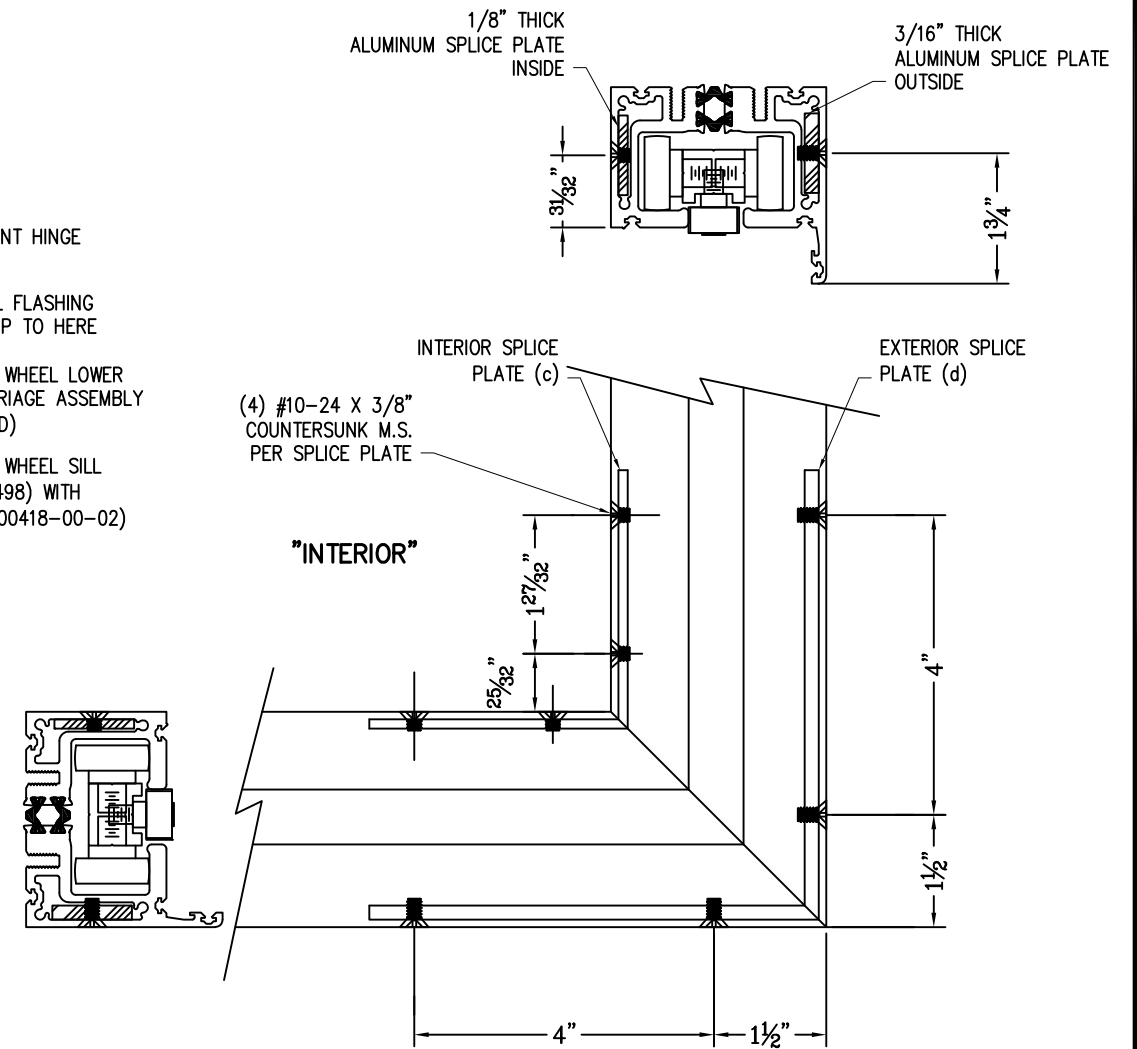
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DRAIN PIPE AND HINGE EXTENSION
DETAIL



WEEP HOLE AND HINGE EXTENSION
DETAIL



SPLICE PLATES INSTALLATION
DETAIL

SIGNED: 04/22/2026

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WEEP DETAIL

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REV
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SCALE
NTS

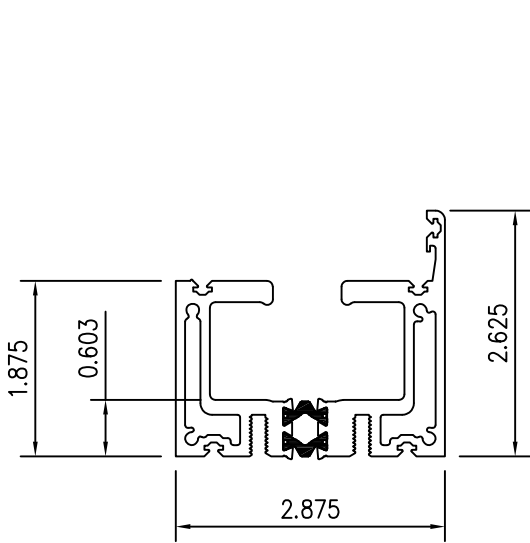
DATE
04/19/13

SHEET
12 OF 13

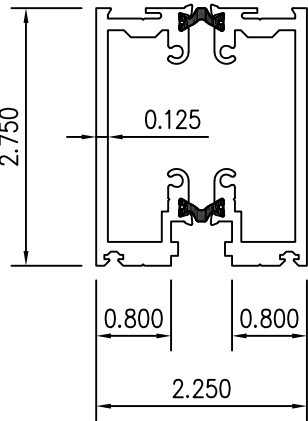
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

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

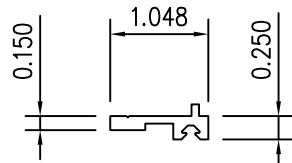
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED DETAILS	04/22/26	R.L.



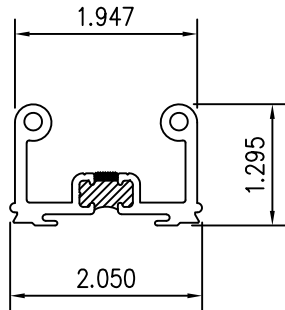
DUAL WHEEL
HEAD / SILL



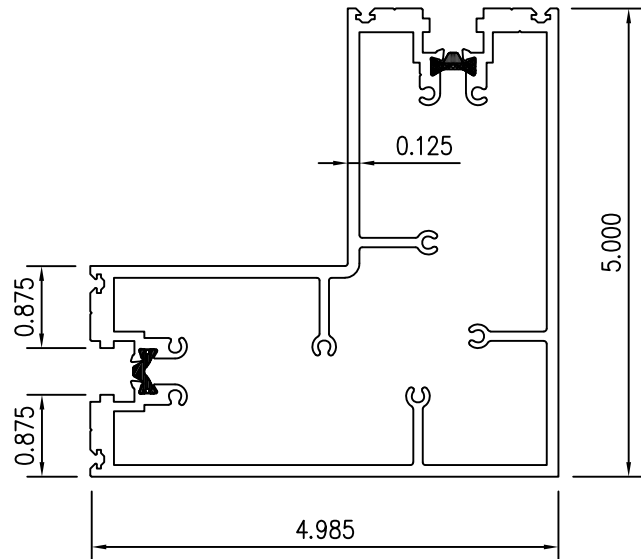
REGULAR
FRAME



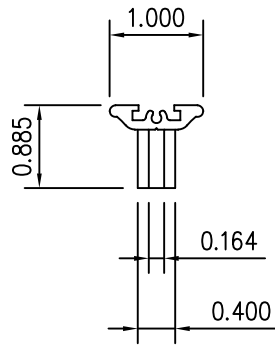
FRAME
CAP



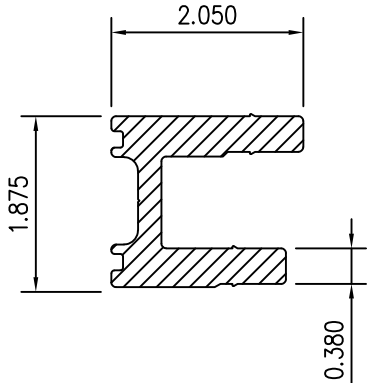
FRAME
LUG



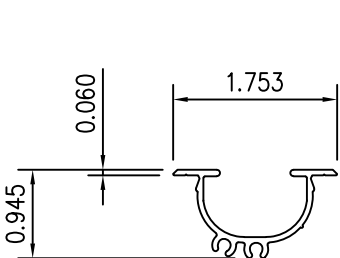
G2 90 NO POST
CORNER



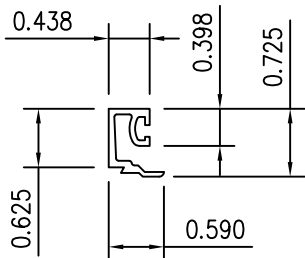
LOW-PROFILE
HANDLE



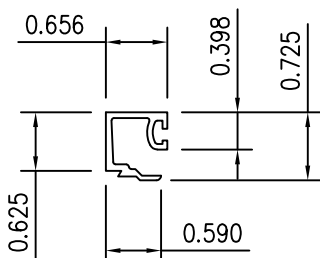
REGULAR
RAIL INSERT



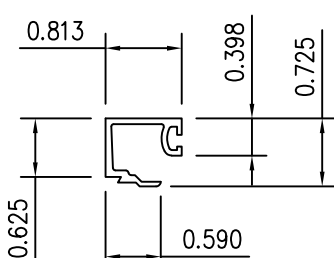
RECESSED / FLUSH
HANDLE



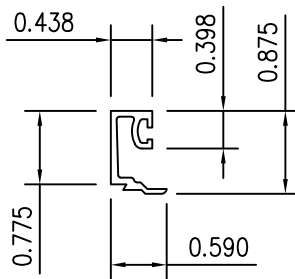
1" GLASS
STOP



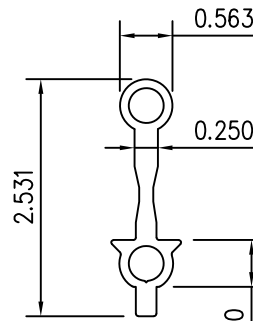
9/16" GLASS
STOP



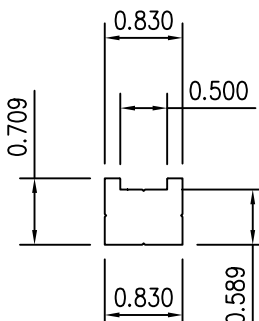
1/4" GLASS
STOP



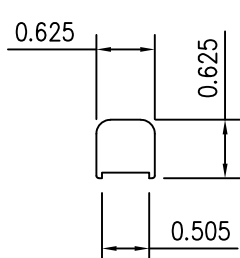
1/2" GLASS
STOP



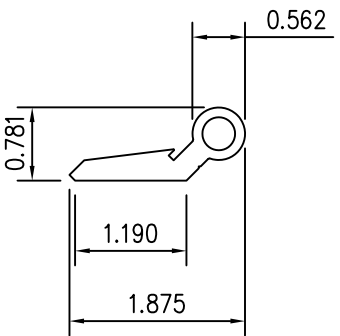
HEAVY HINGE
EXTENSION



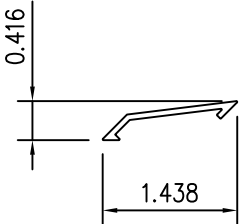
TROLLEY
BODY



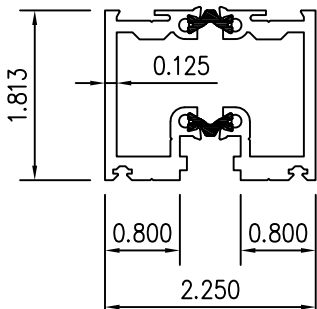
IDLER
BODY



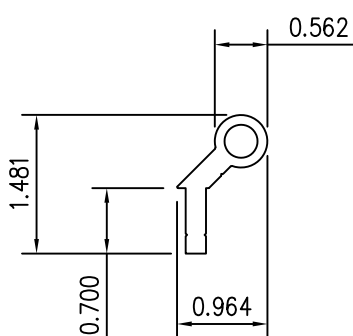
5 1/4" HYBRID
HINGE



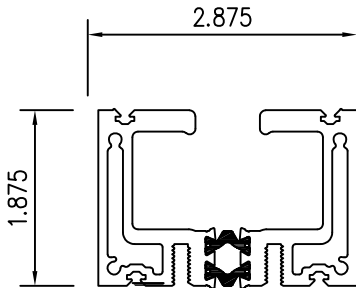
5 1/4" HYBRID
HINGE COVER



NARROW
FRAME



5 1/4" SEMI-
CONCEALED HINGE



FLUSH SILL

SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

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

DRAWN: J.L.

DWG NO. 08-01959

REV D

SCALE NTS

DATE 04/19/13

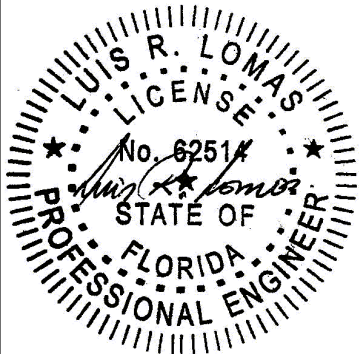
SHEET 13 OF 13

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SIGNED: 04/22/2026



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