

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/2023	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 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:

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 OUTFOLD
ALUMINUM REINFORCED – IMPACT – HVHZ
NOTES

DRAWN:
R.L.

DWG NO.
08-01793

REV
F

SCALE NTS

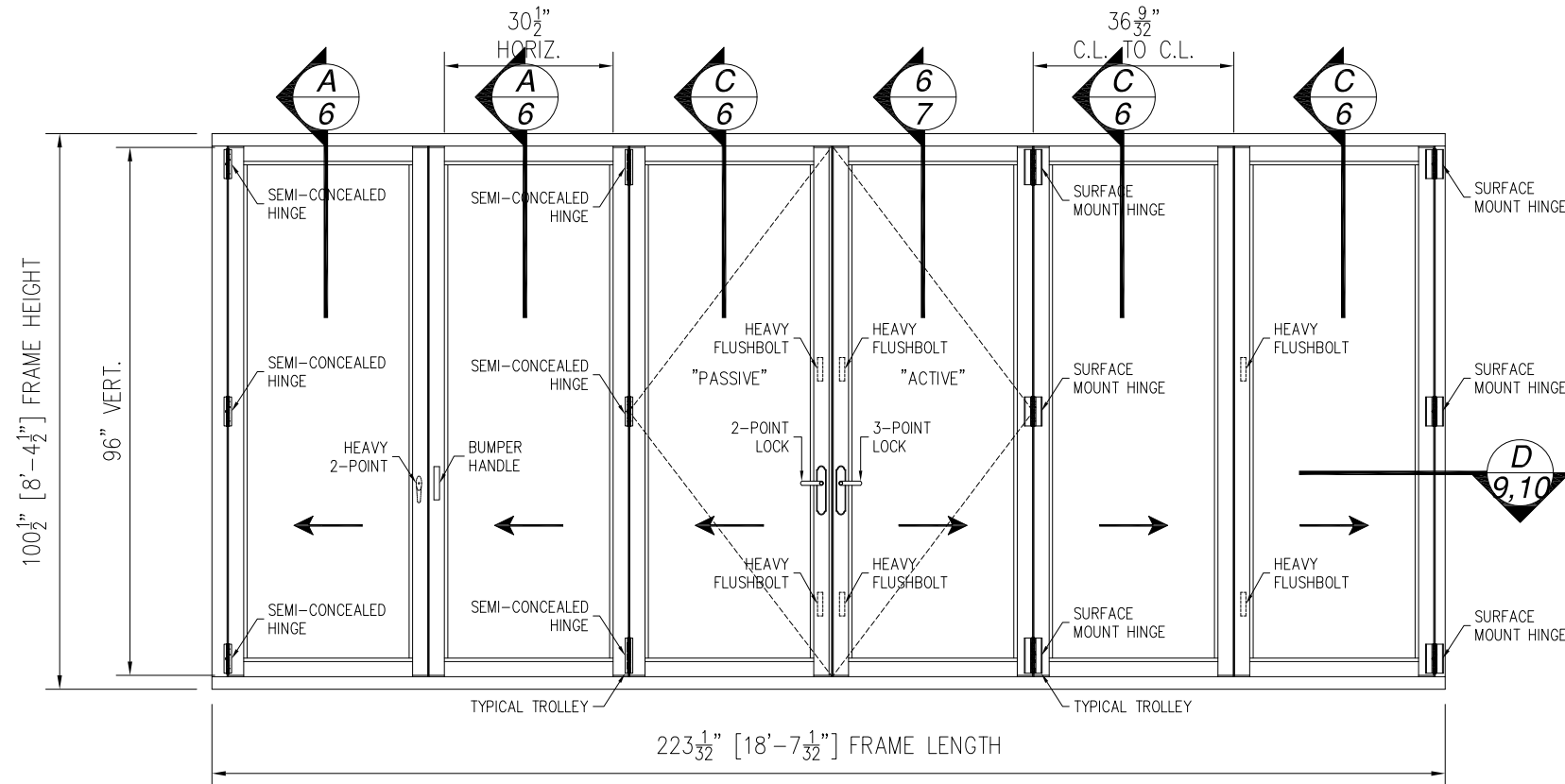
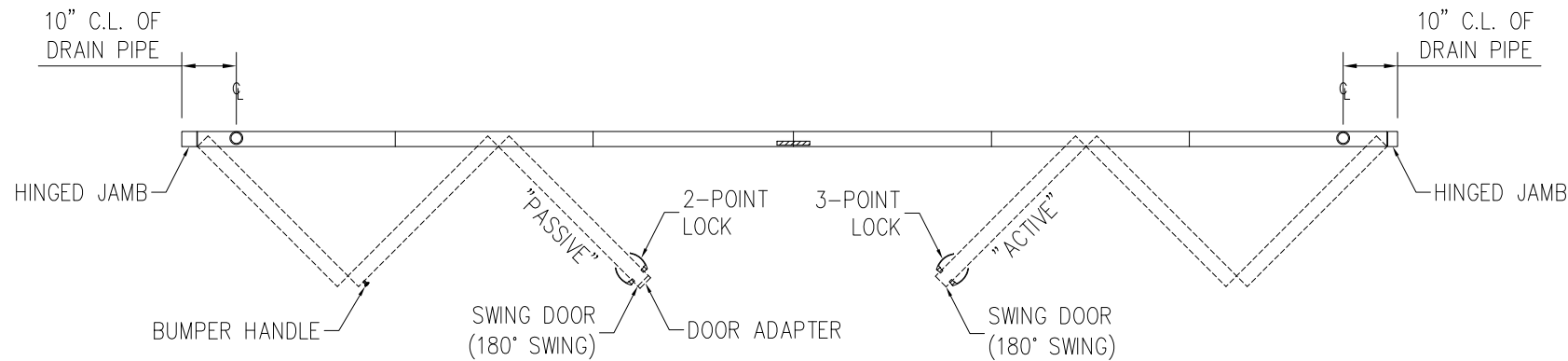
DATE 09/19/12

SHEET 1 OF 18

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

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

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



SERIES SI3000 FGW 3X8 PANEL OUTFOLD FGW

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.	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
F	PANIC BAR BY SOLAR INNOVATIONS (OPTIONAL)

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WHERE WATER RESISTANCE IS REQUIRED, SEE CHART #1 SHEET 4

DESIGN PRESSURE RATING	IMPACT RATING
+60.0/-80.0PSF	LARGE & SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

WHERE WATER RESISTANCE IS NOT REQUIRED, SEE CHART #2 SHEET 4

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

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

WITH PANIC BAR OPTION, SEE CHART #3 SHEET 4

DESIGN PRESSURE RATING	IMPACT RATING
+60.0/-65.0PSF	LARGE & SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

WITH FLUSH SILL, SEE CHART #4 SHEET 4

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

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

WITH NON-THERMAL PANEL, SEE CHART #4 SHEET 4

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

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

SOLAR INNOVATIONS, INC.

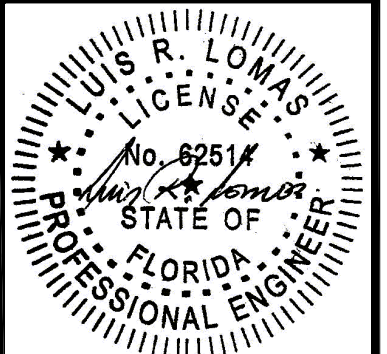
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ALUMINUM REINFORCED - IMPACT - HVHZ
ELEVATION

DRAWN: R.L.	DWG NO. 08-01793	REV F
SCALE NTS	DATE 09/19/12	SHEET 2 OF 18

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

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FL No.: 62514

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MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

WITH PANIC BAR OPTION, SEE CHART #3 SHEET 4

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MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

WITH FLUSH SILL, SEE CHART #4 SHEET 4

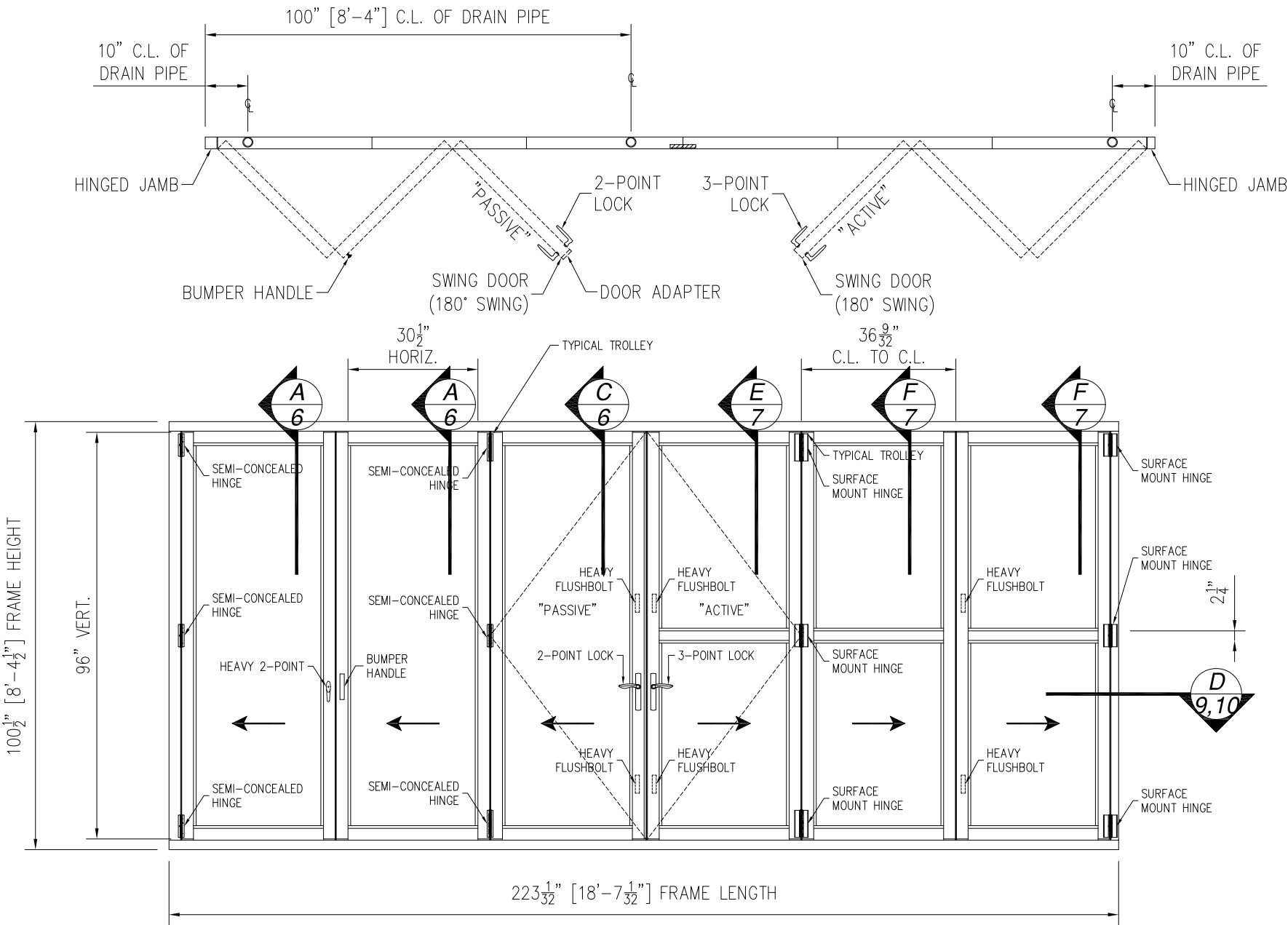
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WITH NON-THERMAL PANEL, SEE CHART #4 SHEET 4

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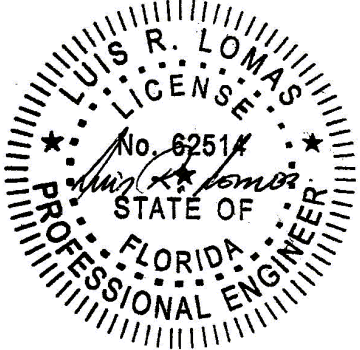
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PINE GROVE, PA 17963

SERIES SI3000 FGW 3X8 PANEL OUTFOLD
ALUMINUM REINFORCED – IMPACT – HVHZ
ELEVATION

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SCALE NTS	DATE 09/19/12	SHEET 3 OF 18

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208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

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Chart #1

Maximum Design pressure (psf)										
Panel Height (in)	Single Panel Width (in)									
	24.0		30.0		36.281		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	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	78.8	-	-	-	-	-	-
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		42.0000		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	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		42.0000		44.000	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
78.0	60.0	65.0	60.0	65.0	60.0	65.0	60.0	65.0	60.0	65.0
84.0	60.0	65.0	60.0	65.0	60.0	65.0	-	-	-	-
90.0	60.0	65.0	60.0	65.0	60.0	65.0	-	-	-	-
96.0	60.0	65.0	60.0	65.0	60.0	65.0	-	-	-	-
102.0	60.0	65.0	60.0	64.0	-	-	-	-	-	-
108.0	60.0	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 #4

Maximum Design pressure (psf)										
Panel Height (in)	Single Panel Width (in)									
	24.0		30.0		36.281		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	-	-	-	-	-	-	-	-

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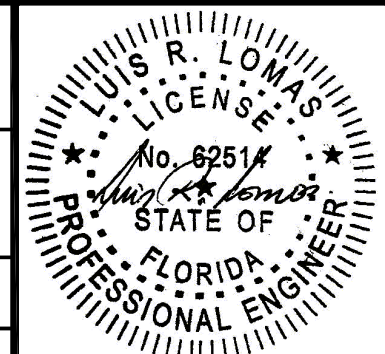
31 ROBERTS RD
PINE GROVE, PA 17963

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ALUMINUM REINFORCED – IMPACT – HVHZ
ANCHORING LAYOUT AND DESIGN PRESSURE CHARTS

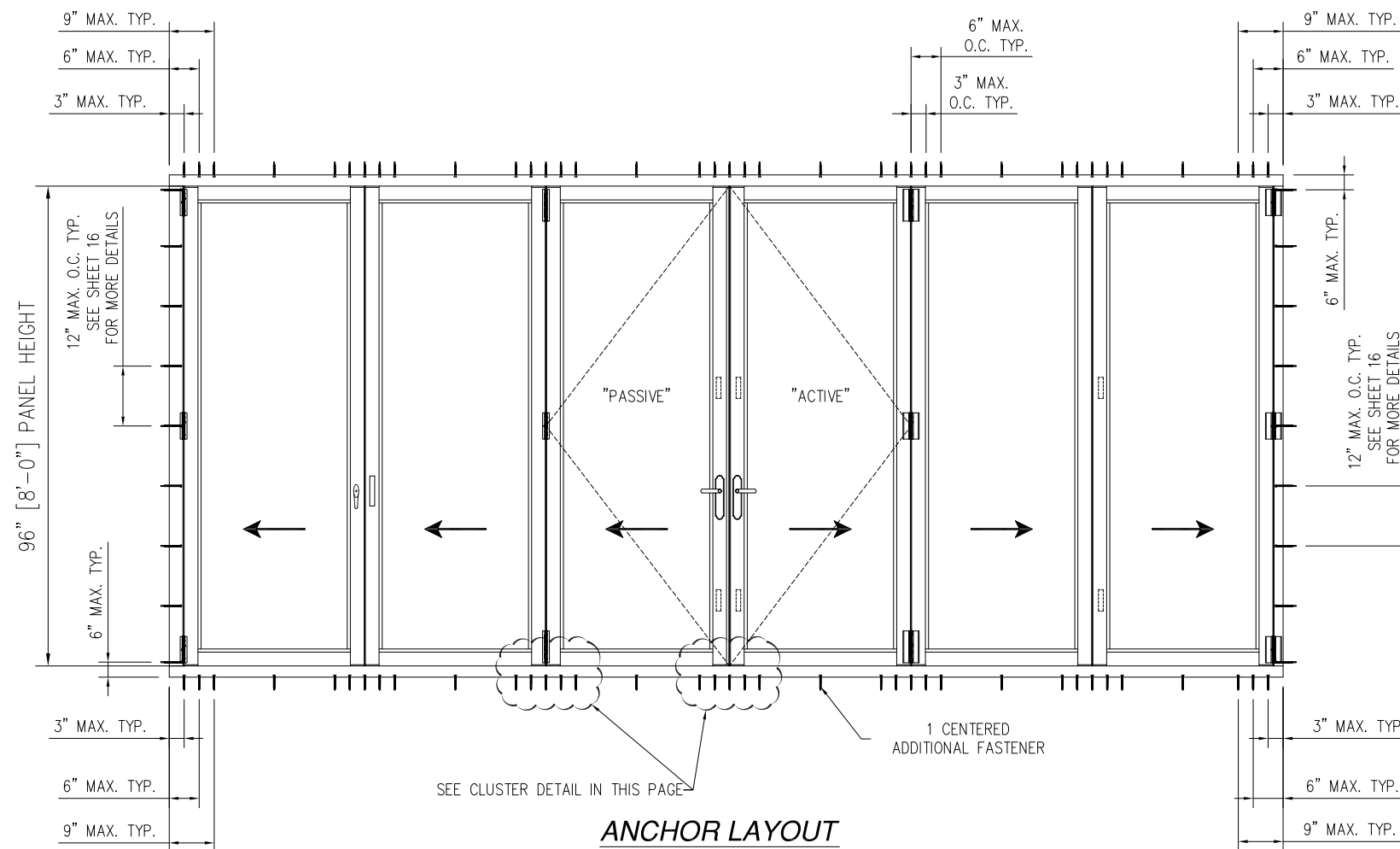
DRAWN: R.L.	DWG NO. 08-01793	REV F
SCALE NTS	DATE 09/19/12	SHEET 4 OF 18

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434-688-0609 rllomas@lrlomaspe.com

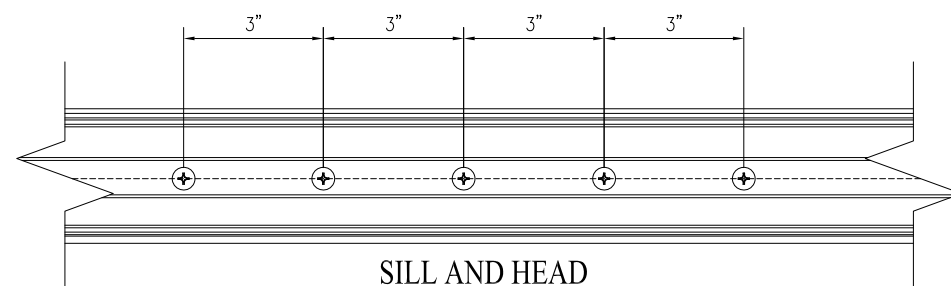
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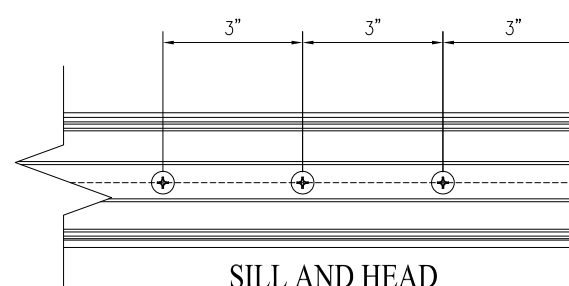
Luis R. Lomas P.E.
FL No.: 62514



ANCHOR LAYOUT
APPLICABLE TO ALL CONFIGURATIONS.



SILL AND HEAD
CLUSTER DETAIL



SILL AND HEAD
END DETAIL

PARTS LIST			
NO.	PART NUMBER	DESCRIPTION	MATERIAL
1	EA012497	DUAL WHEEL HEAD/SILL ASSY	ALUMINUM 6063-T6
2	S45004	REGULAR THERMAL FRAME	ALUMINUM 6063-T6
3	S54168	FRAME CAP	ALUMINUM 6063-T6
4	H07559	FRAME LUG	ALUMINUM 6063-T5
6	S47086	HANDLE – LOW PROFILE	ALUMINUM 6063-T5
7	S45995	HANDLE – RECESSED/FLUSH	ALUMINUM 6063-T52
8	S34713	GLASS STOP 1”	ALUMINUM 6063-T6
9	S34715	GLASS STOP 9/16”	ALUMINUM 6063-T6
11	H11722	HINGE EXTENSION – HEAVY	ALUMINUM 6005A-T4
12	S50311	TROLLY BODY	ALUMINUM 6005A-T5
13	S34717	IDLER BODY	ALUMINUM 6063-T5
14	H07606	HINGE	ALUMINUM 6063-T5
15	S34841	HINGE COVER	ALUMINUM 6063-T5
17	H10684	HINGE SEMI CONCEALED	ALUMINUM 6105-T5
18	S47543	FRAME LOW PROFILE	ALUMINUM 6063-T6
19	GA000012	MULTFIN GASKET	EPDM 70 SHORE A
20	FA000447	#10-32 X 5/8” FH SS SCREW	
22	CN001129	1/8” SETTING BLOCK	
25	S59568	TROLLY COVER	ALUMINUM 6063-T5
26	FA001037	#8-32 X 1/4” CS MS	
27	GA000017	ARROW SHIM	
28		1/8” HARD SHIM	
29		SILPRUF	
30		TROLLY ASSY BOTTOM LOAD	ALUMINUM 6063-T5

ITEMS 5, 10, 16, 21, 23, 24, 31, 32 ARE NOT USED

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PARTS LIST			
NO.	PART NUMBER	DESCRIPTION	MATERIAL
33		#12 X 1 FH SELF DRILLING SCREW	
34	GA000418-00-02	GASKET	
35		2 POINT LOCK	
36	FA000448	#10-32 X 1” CS MS	
37	S52262	SLIDE-IN DOOR STOP	ALUMINUM 6063-T5
38	GA000022-00-02	BULB GASKET	
39	S40921	DOOR ADAPTER	ALUMINUM 6063-T6
40		FLUSH BOLT	
41	GA000384	DOOR SWEEP GASKET	
42		2POINT LOCK	
43	S44793	MULLION	ALUMINUM 6063-T6
44		SURFACE MOUNT HINGE	ALUMINUM 6063-T5
45	FA001010	#10-32 X 3/8 FH SMS	
46		3 POINT LOCK	
47	S49375	REGULAR RAIL INSERT	ALUMINUM 6063-T5
48	H12497/H13486	FLUSH SILL	ALUMINUM 6063-T5
49	H12862	NON-THERMAL FRAME	ALUMINUM 6063-T5

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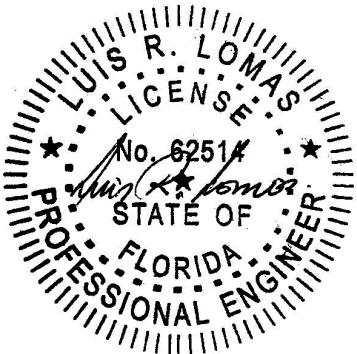
SCALE NTS

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SHEET 5 OF 18

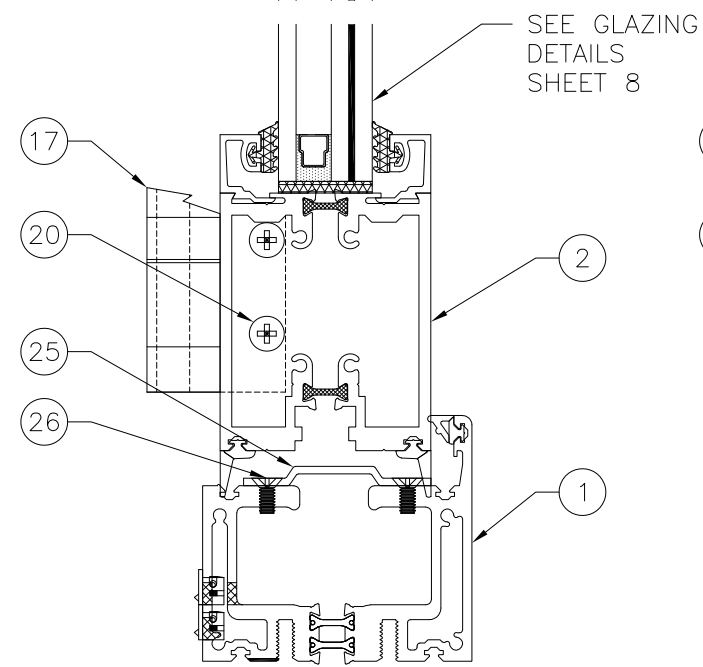
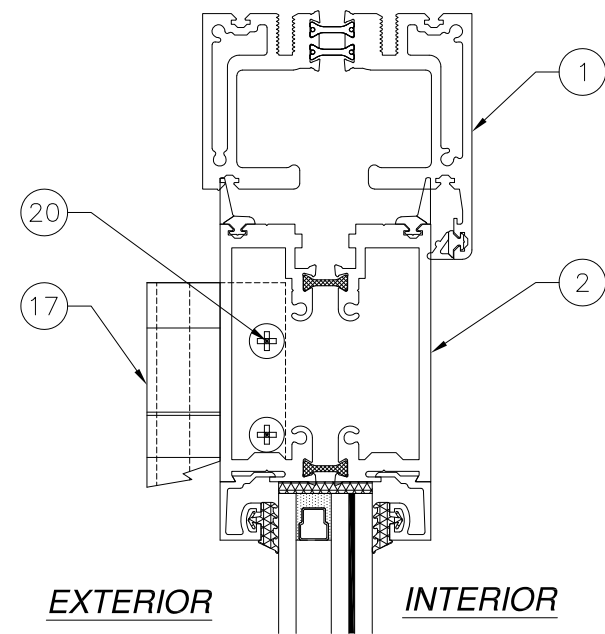
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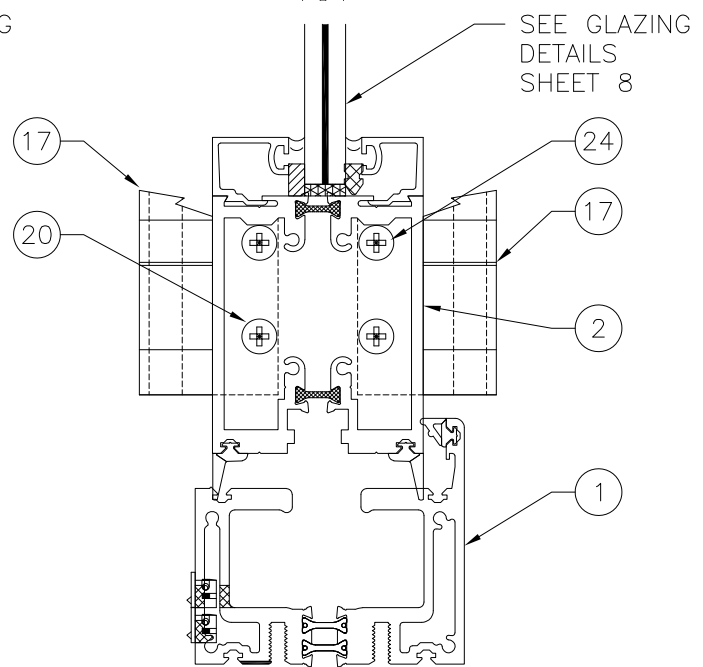
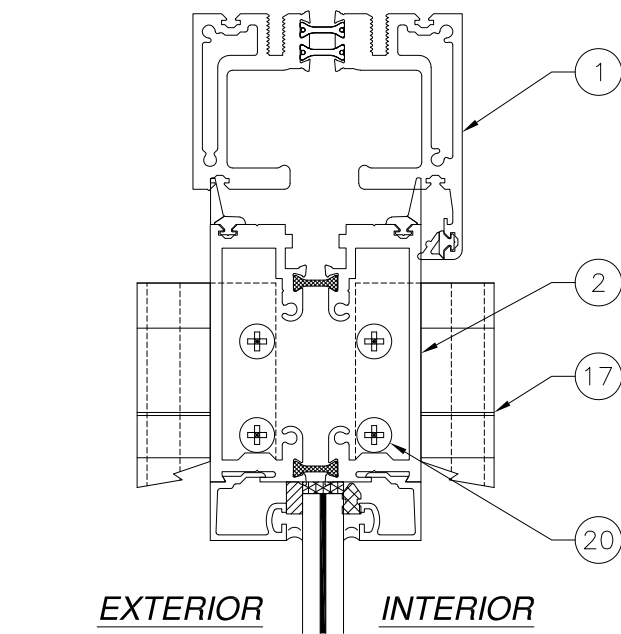


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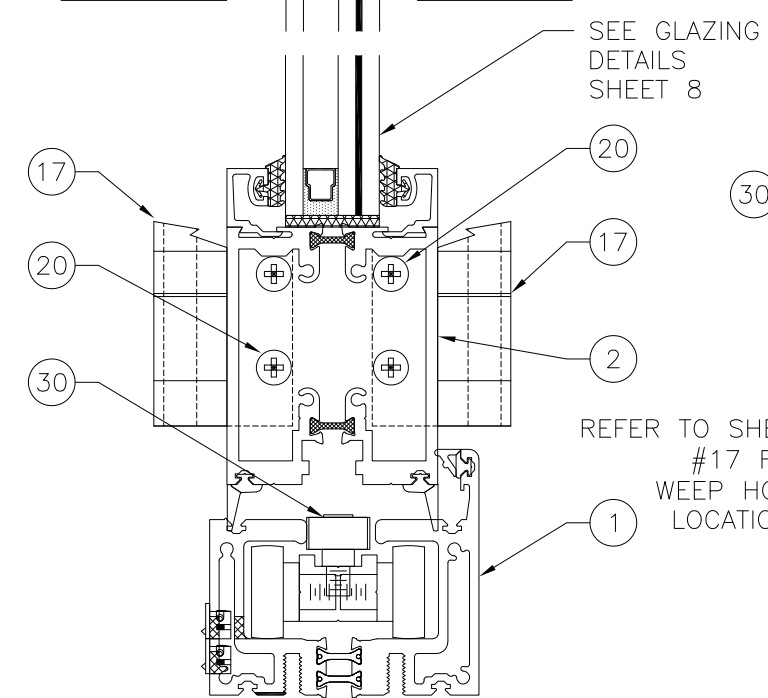
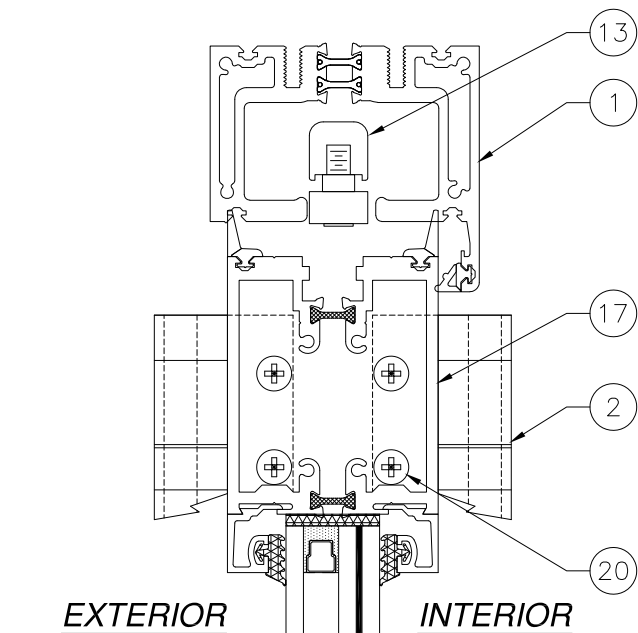
FOR ILLUSTRATION PURPOSES ONLY
FOR INSTALLATION DETAILS REFER TO SHEETS 13 -15



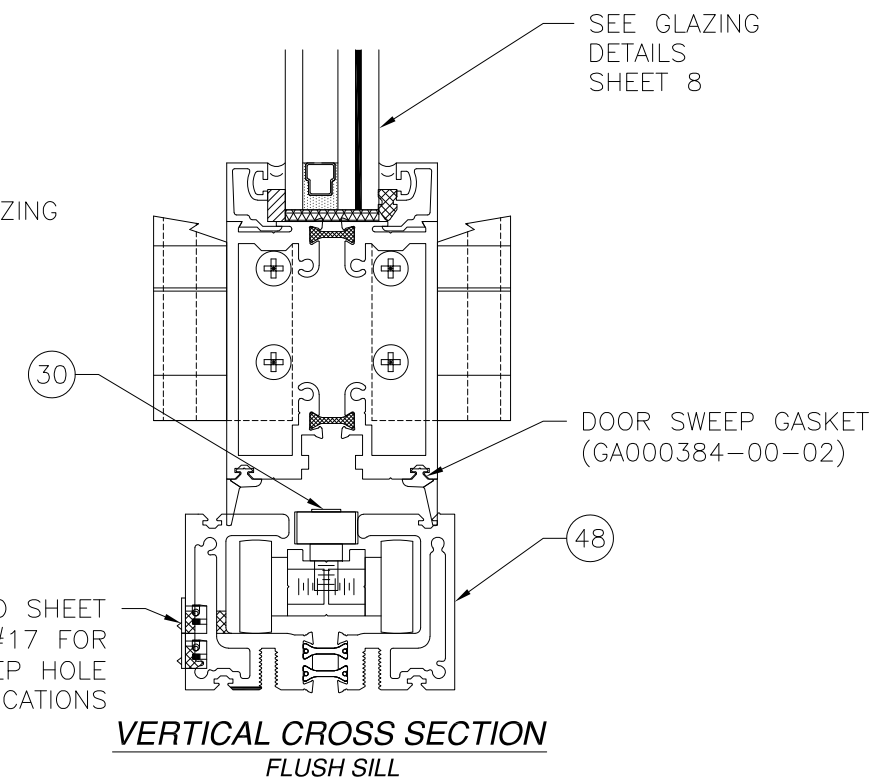
A
6
VERTICAL CROSS SECTION



B
6
VERTICAL CROSS SECTION



C
6
VERTICAL CROSS SECTION
BOTTOM LOAD



VERTICAL CROSS SECTION
FLUSH SILL

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VERTICAL CROSS SECTIONS

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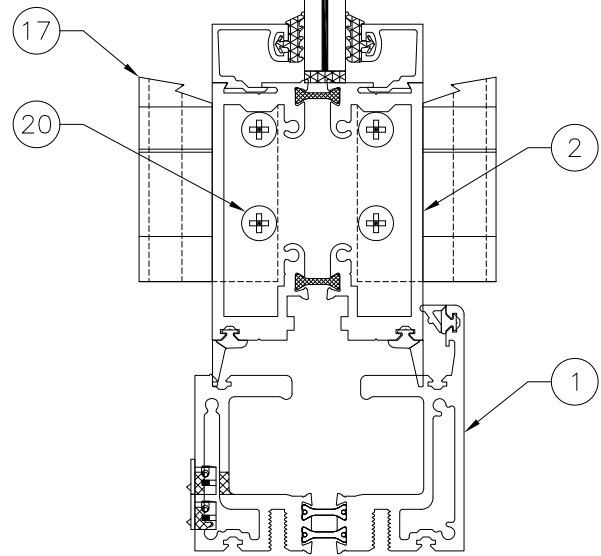
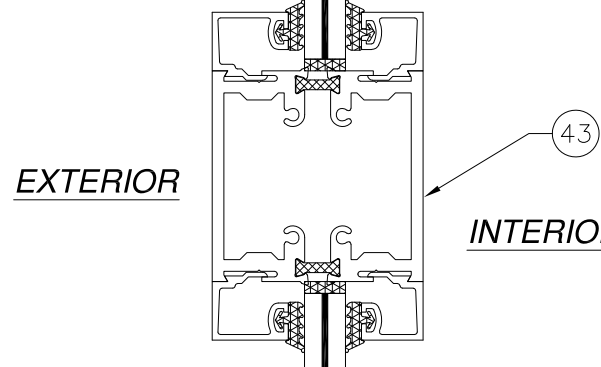
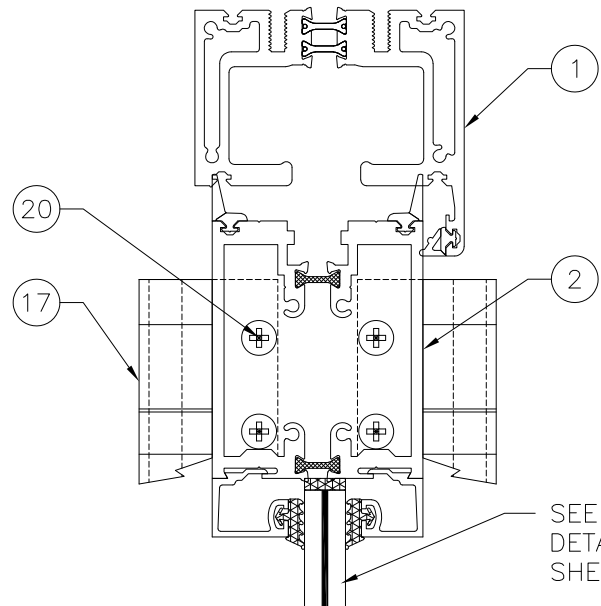
SIGNED: 12/12/2023

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

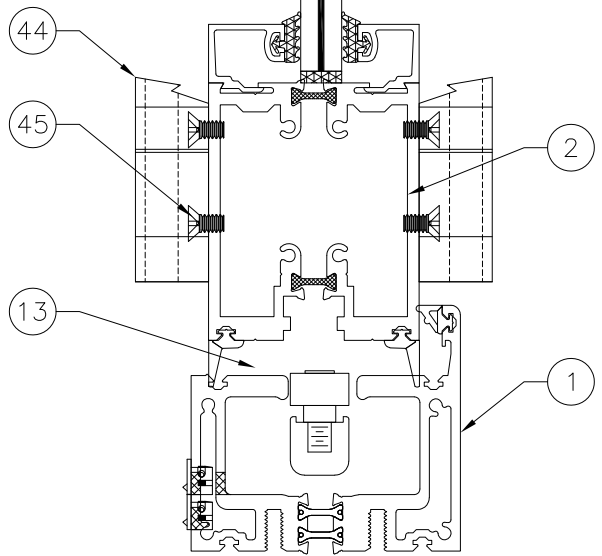
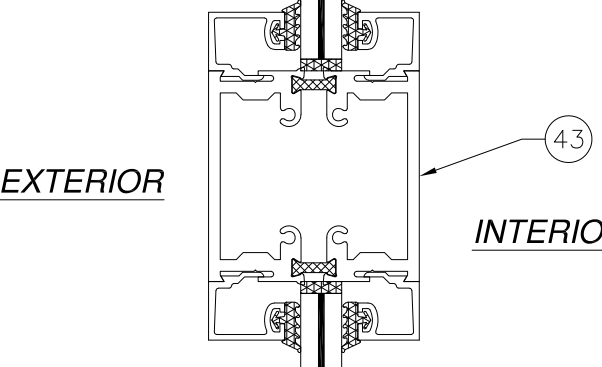
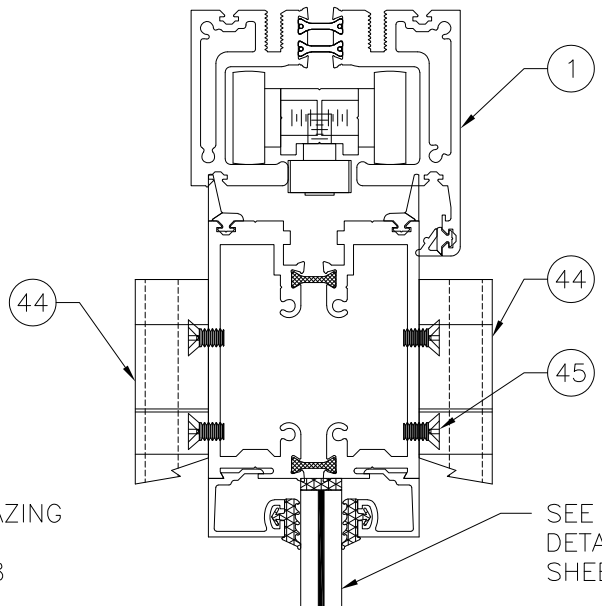
Luis R. Lomas P.E.
FL No.: 62514

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FOR INSTALLATION DETAILS REFER TO SHEETS 13 -15

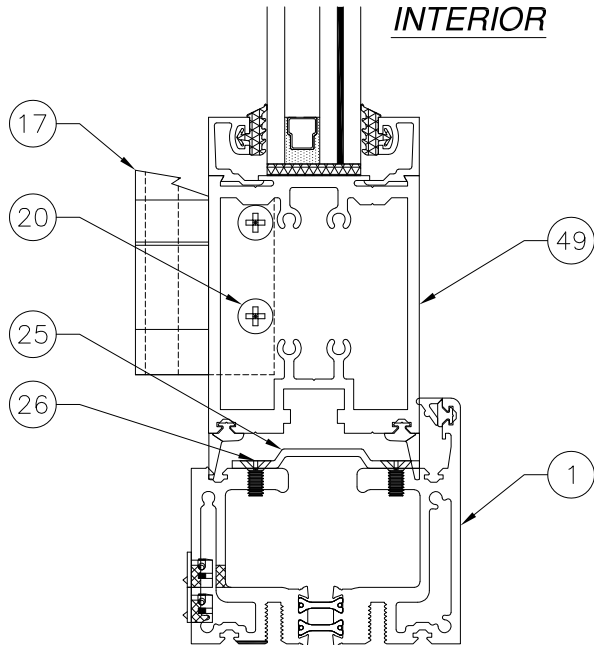
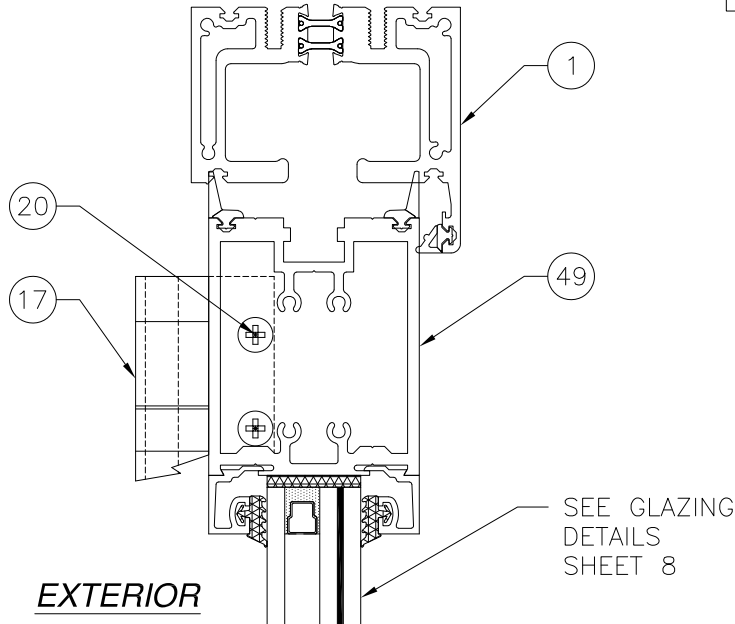
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/2023	R.L.



E
7
VERTICAL CROSS SECTION



F
7
VERTICAL CROSS SECTION
TOP LOAD



A
7
VERTICAL CROSS SECTION
NON-THERMAL PANEL

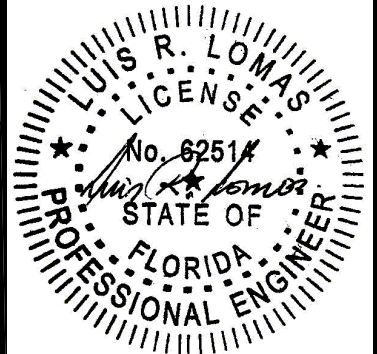
SOLAR INNOVATIONS, INC.
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 FGW 3X8 PANEL OUTFOLD
ALUMINUM REINFORCED – IMPACT – HVHZ
VERTICAL CROSS SECTIONS

DRAWN: R.L.	DWG NO. 08-01793	REV F
SCALE NTS	DATE 09/19/12	SHEET 7 OF 18

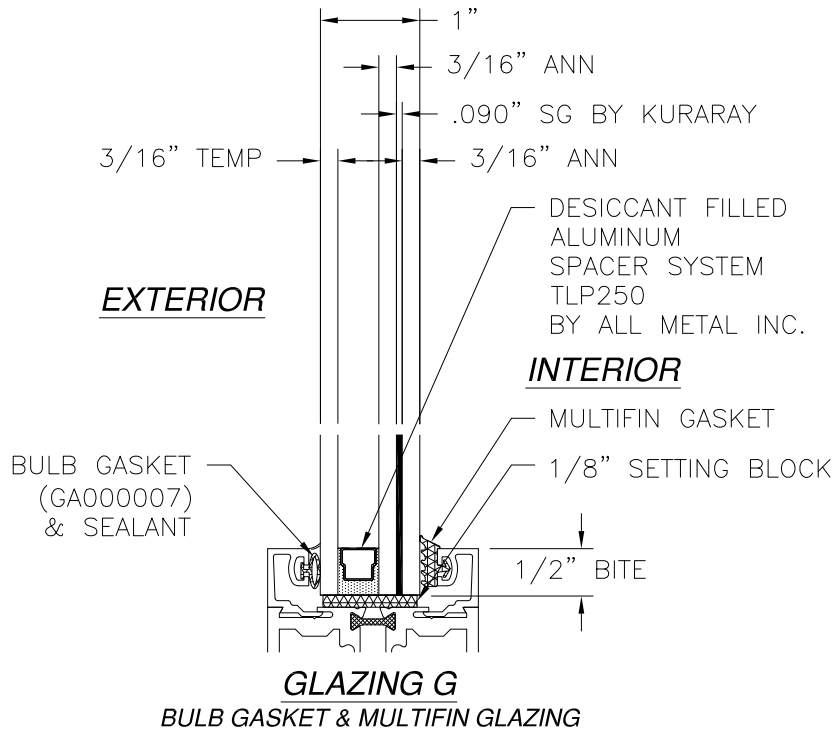
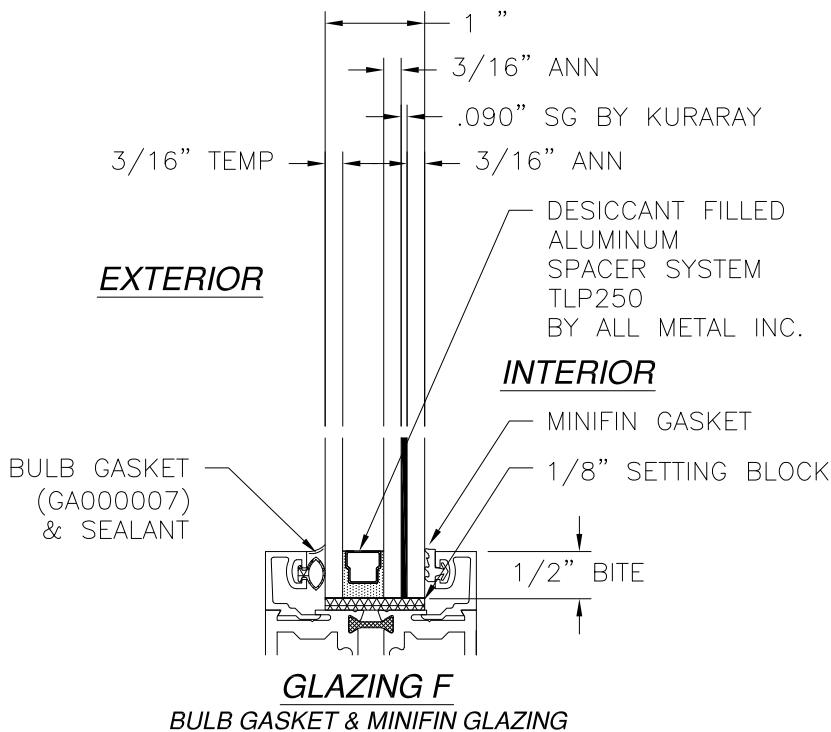
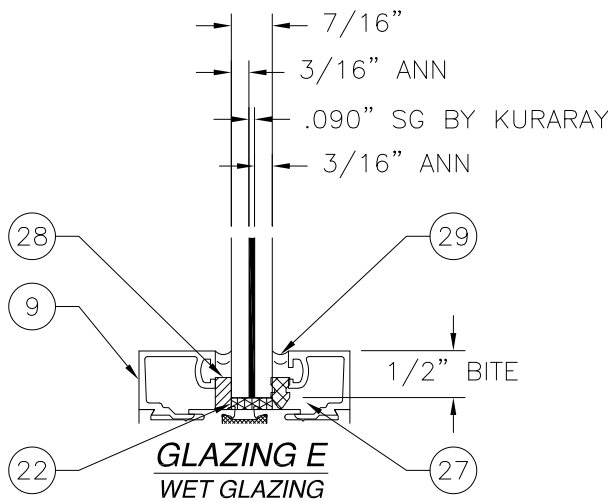
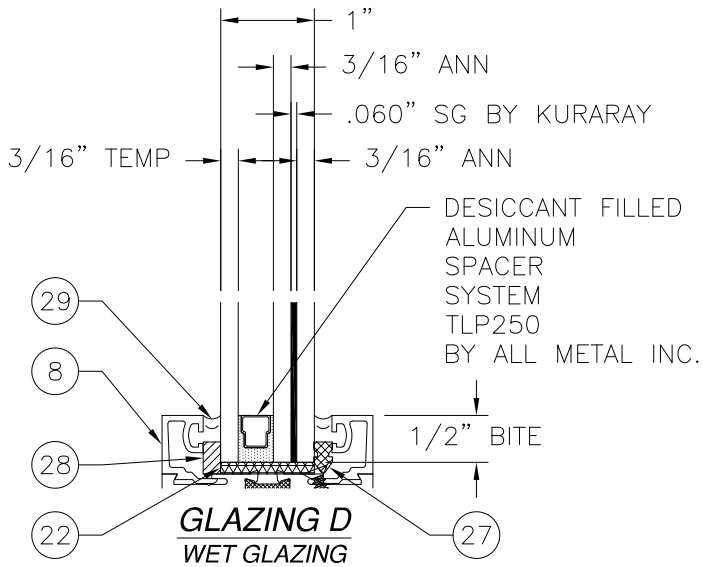
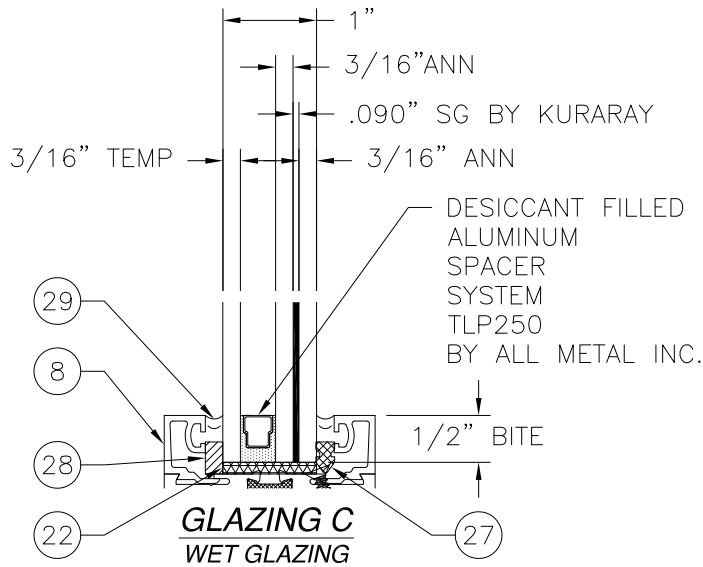
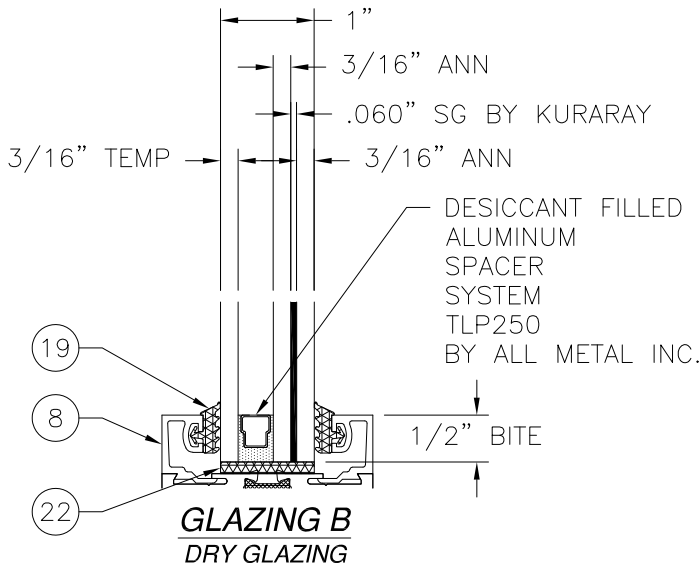
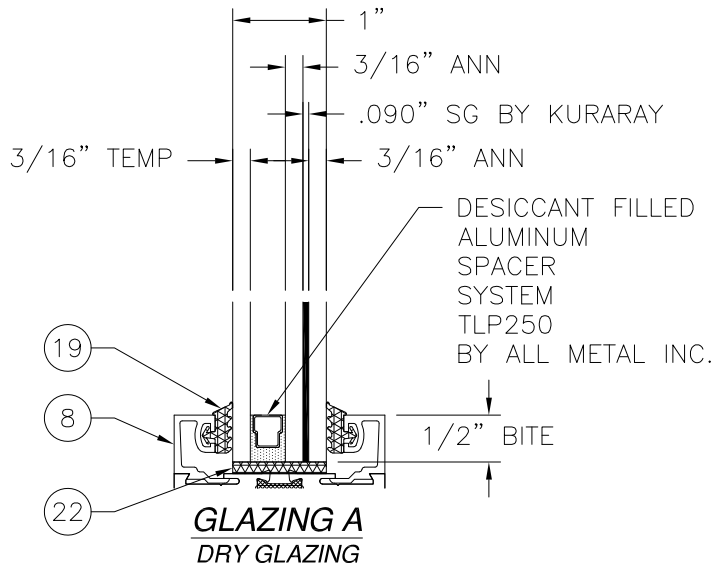
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 12/12/2023



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/2023	R.L.



SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 FGW 3X8 PANEL OUTFOLD
ALUMINUM REINFORCED – IMPACT – HVHZ
GLAZING DETAILS

DRAWN: R.L.

DWG NO. 08-01793

REV F

SCALE NTS

DATE 09/19/12

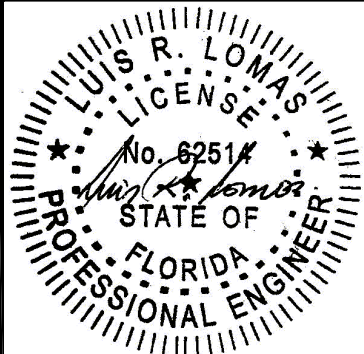
SHEET 8 OF 18

L. ROBERTO LOMAS P.E.

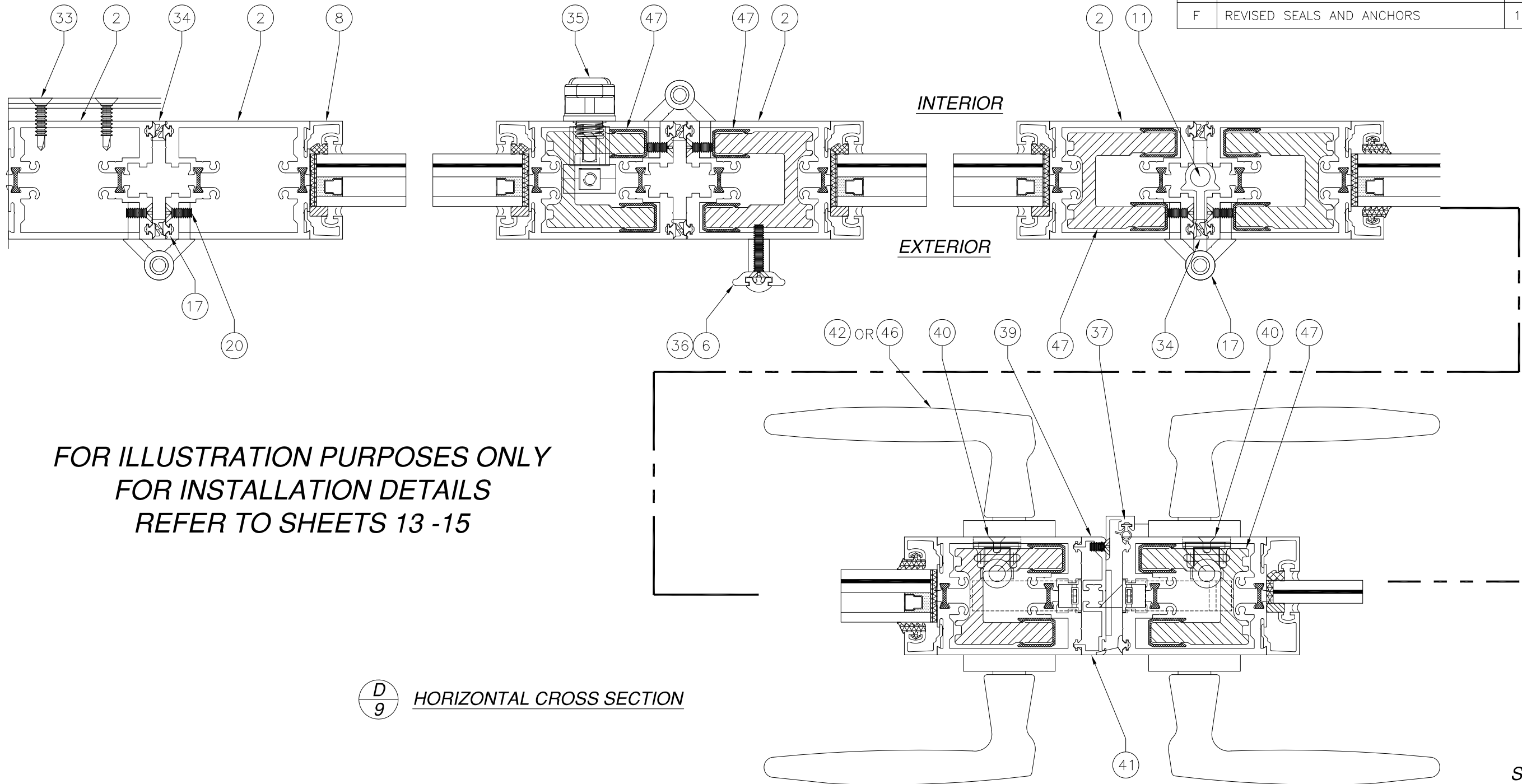
208 7th Ave, INDIALANTIC, FL 32903

434-688-0609 rllomas@lrlomaspe.com

SIGNED: 12/12/2023



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



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FOR INSTALLATION DETAILS
REFER TO SHEETS 13 -15

$\frac{D}{9}$ HORIZONTAL CROSS SECTION

CONTINUED
IN SHEET 10

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/2023	R.L.

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

SERIES SI3000 FGW 3X8 PANEL OUTFOLD
ALUMINUM REINFORCED – IMPACT – HVHZ
HORIZONTAL CROSS SECTIONS

DRAWN:
R.L.

DWG NO.
08-01793

REV
F

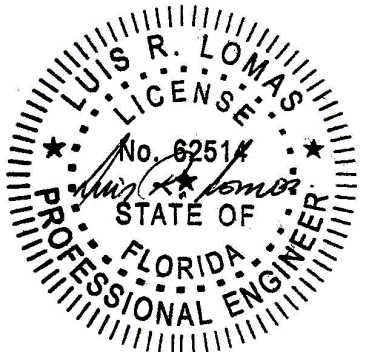
SCALE NTS

DATE 09/19/12

SHEET 9 OF 18

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

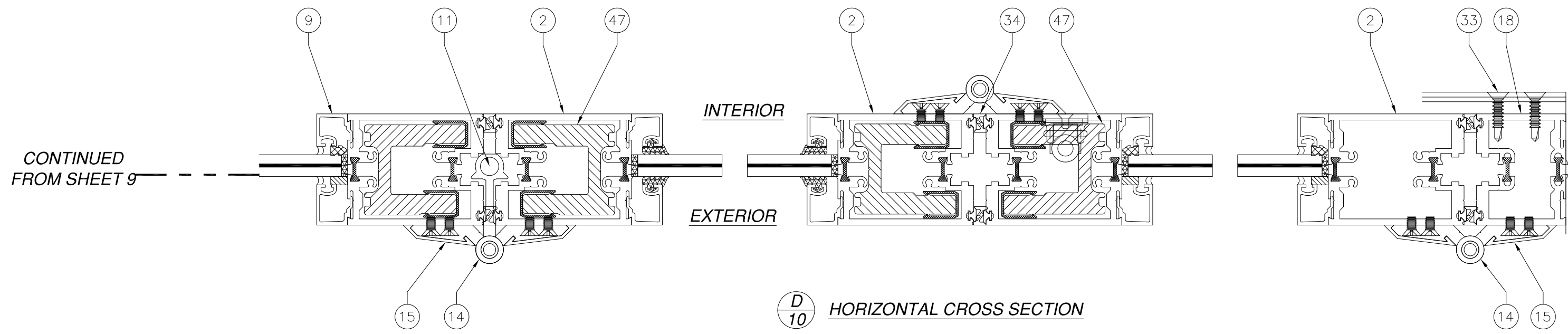
SIGNED: 12/12/2023



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

FOR ILLUSTRATION PURPOSES ONLY
FOR INSTALLATION DETAILS REFER TO SHEETS 13 - 15

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/2023	R.L.



SIGNED: 12/12/2023

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

SERIES SI3000 FGW 3X8 PANEL OUTFOLD
ALUMINUM REINFORCED - IMPACT - HVHZ
HORIZONTAL CROSS SECTIONS

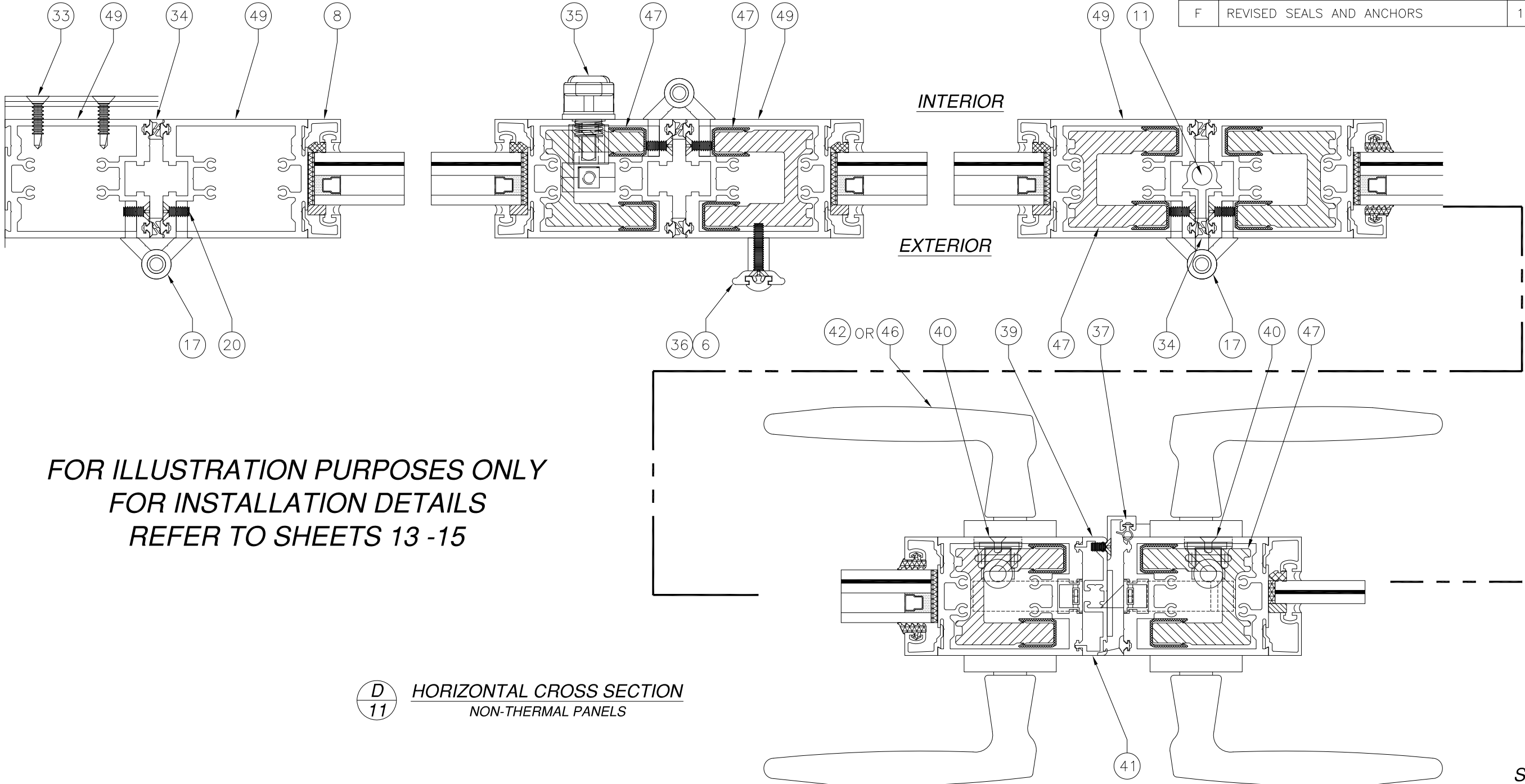
DRAWN: R.L.	DWG NO. 08-01793	REV F
SCALE NTS	DATE 09/19/12	SHEET 10 OF 18

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

LUIS R. LOMAS
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No. 62514
STATE OF
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PROFESSIONAL ENGINEER

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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/2023	R.L.



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FOR INSTALLATION DETAILS
REFER TO SHEETS 13 -15

CONTINUED
IN SHEET 12

D
11 HORIZONTAL CROSS SECTION
NON-THERMAL PANELS

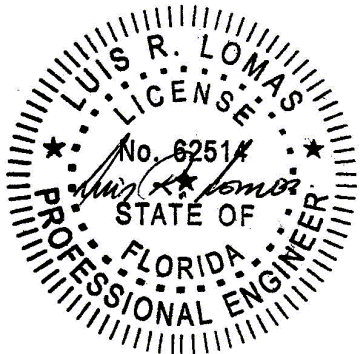
SOLAR INNOVATIONS, INC.
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 FGW 3X8 PANEL OUTFOLD
ALUMINUM REINFORCED – IMPACT – HVHZ
HORIZONTAL CROSS SECTIONS

DRAWN: R.L.	DWG NO. 08-01793	REV F
SCALE NTS	DATE 09/19/12	SHEET 11 OF 18

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

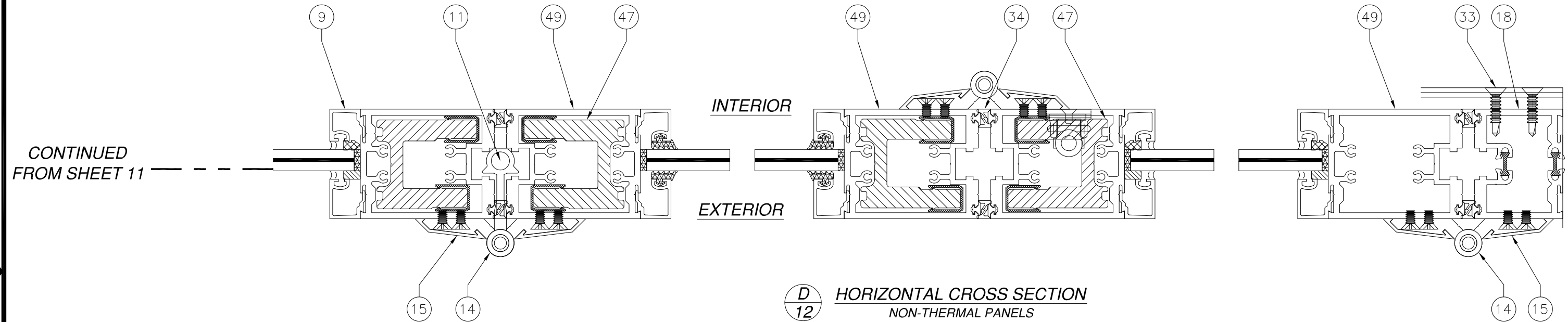
SIGNED: 12/12/2023



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FL No.: 62514

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FOR INSTALLATION DETAILS REFER TO SHEETS 13 -15

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/2023	R.L.



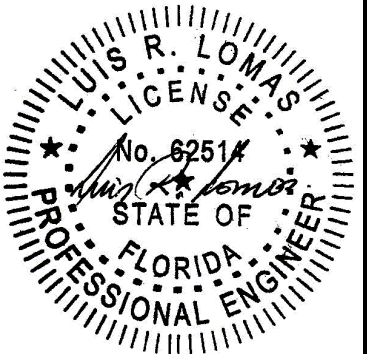
SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

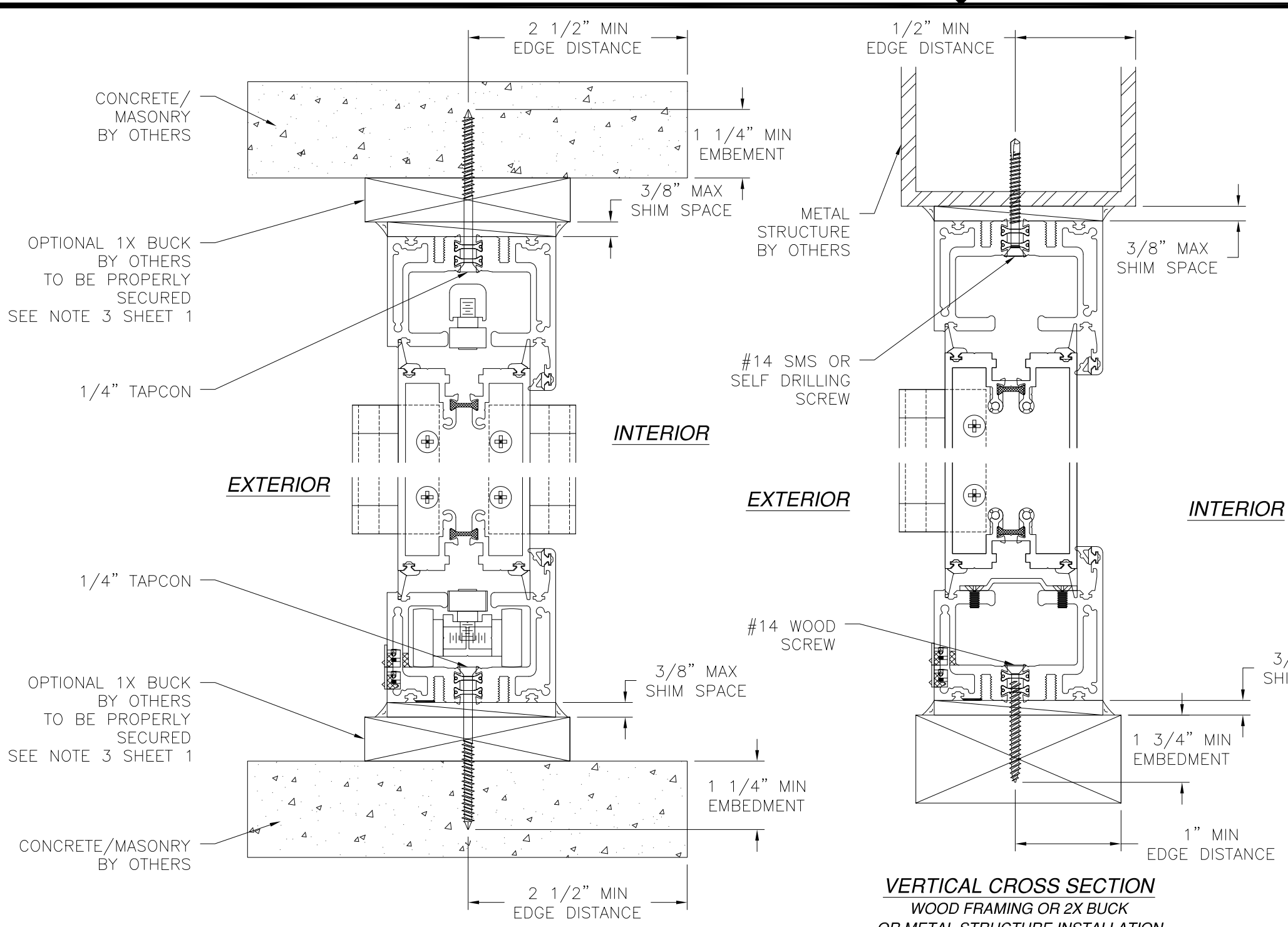
SERIES SI3000 FGW 3X8 PANEL OUTFOLD
ALUMINUM REINFORCED – IMPACT – HVHZ
HORIZONTAL CROSS SECTIONS

DRAWN: R.L.	DWG NO. 08-01793	REV F
SCALE NTS	DATE 09/19/12	SHEET 12 OF 18
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 12/12/2023



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FL No.: 62514



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/2023	R.L.

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

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
ALUMINUM REINFORCED – IMPACT – HVHZ
INSTALLATION DETAILS

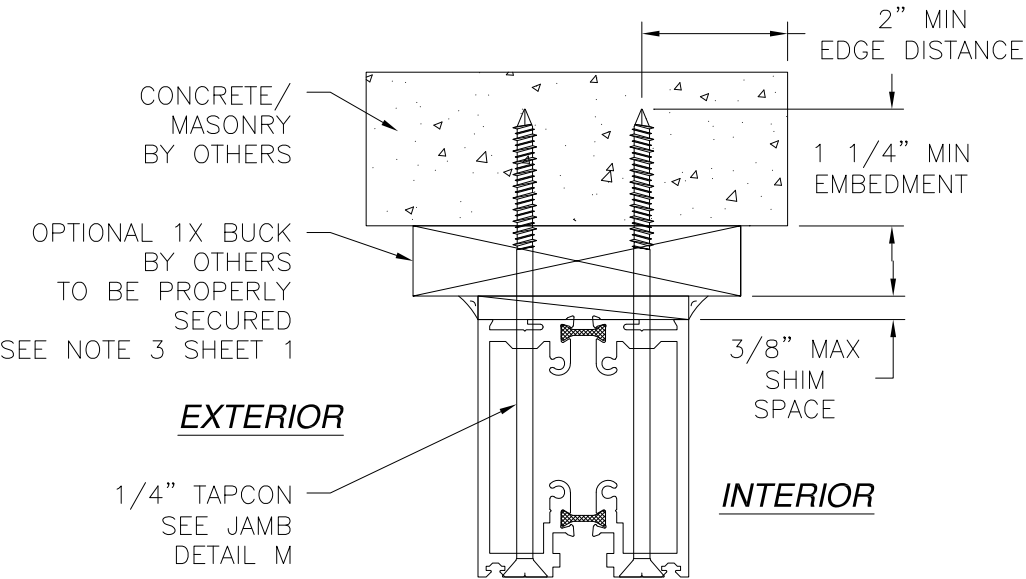
DRAWN: R.L.	DWG NO. 08-01793	REV F
SCALE NTS	DATE 09/19/12	SHEET 13 OF 18

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

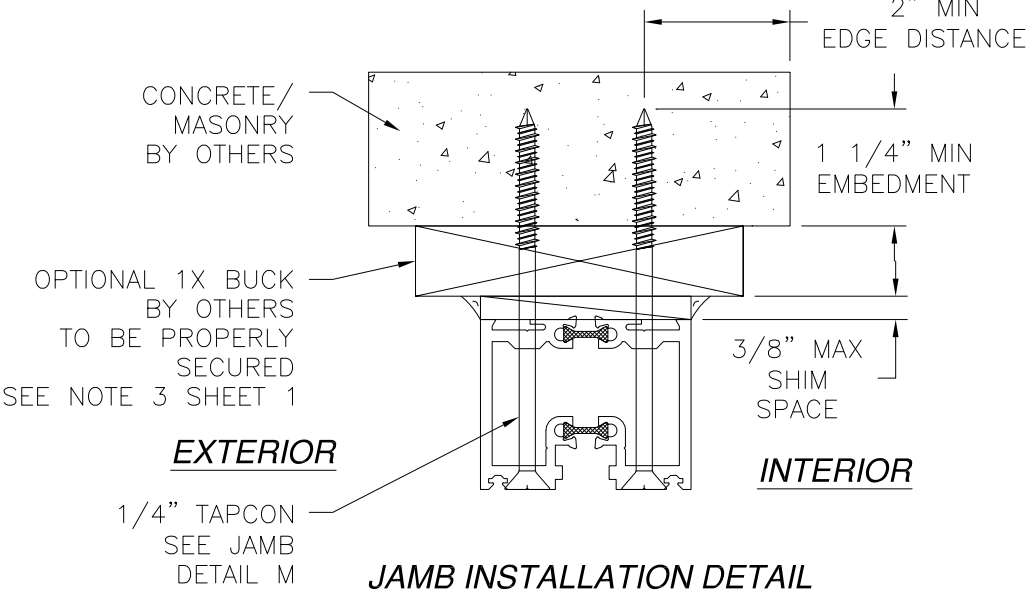
SIGNED: 12/12/2023

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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/2023	R.L.



JAMB INSTALLATION DETAIL
CONCRETE/MASONRY
S45004 NO REINFORCEMENT



JAMB INSTALLATION DETAIL
CONCRETE/MASONRY
S47543 NO 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

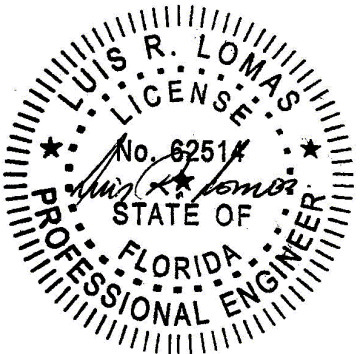
SOLAR INNOVATIONS, INC.
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 FGW 3X8 PANEL OUTFOLD
ALUMINUM REINFORCED – IMPACT – HVHZ
INSTALLATION DETAILS

DRAWN: R.L.	DWG NO. 08-01793	REV F
SCALE NTS	DATE 09/19/12	SHEET 14 OF 18

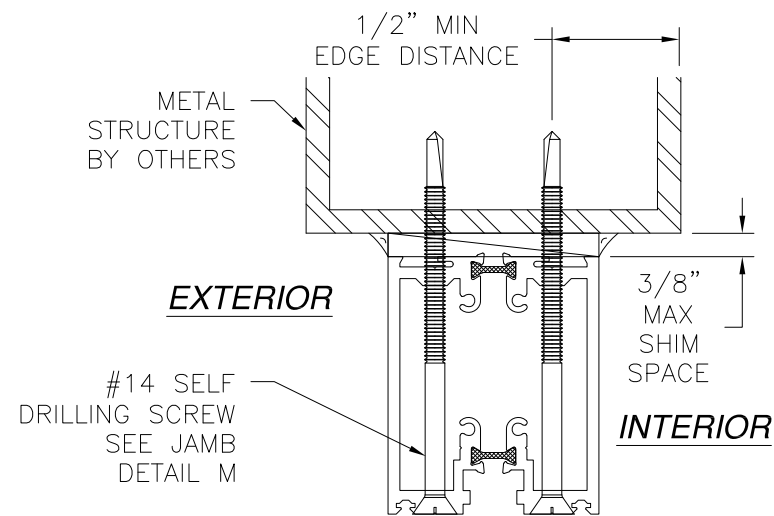
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 12/12/2023

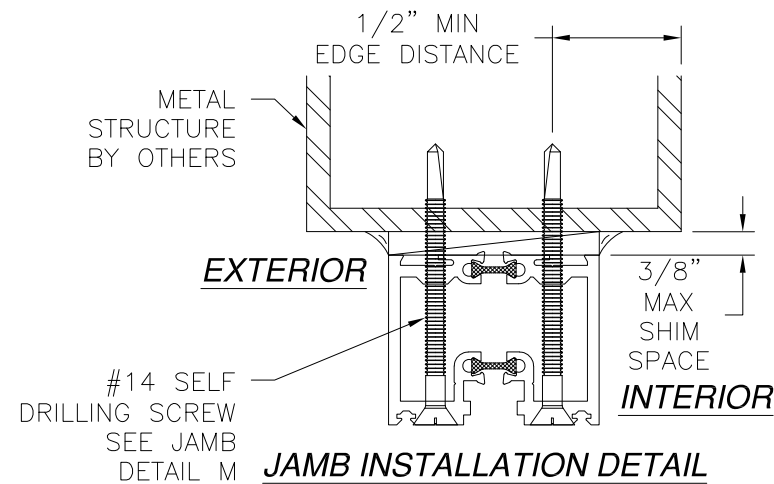


Luis R. Lomas P.E.
FL No.: 62514

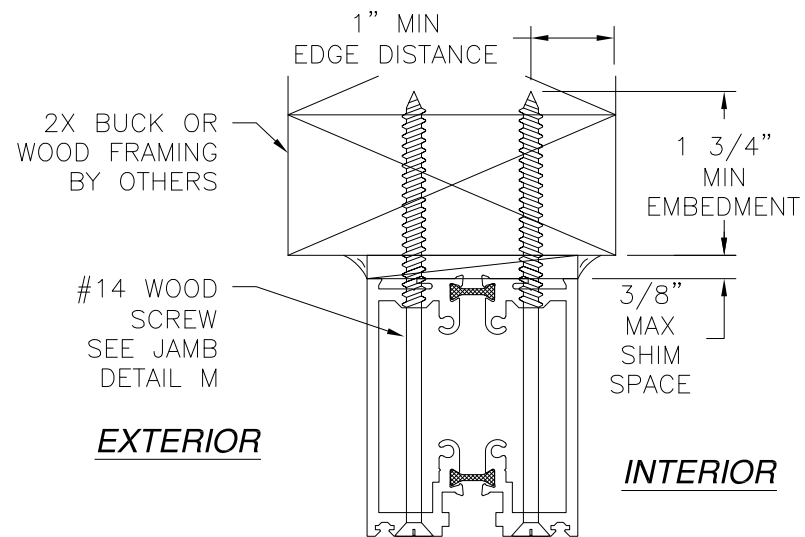
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REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/2023	R.L.



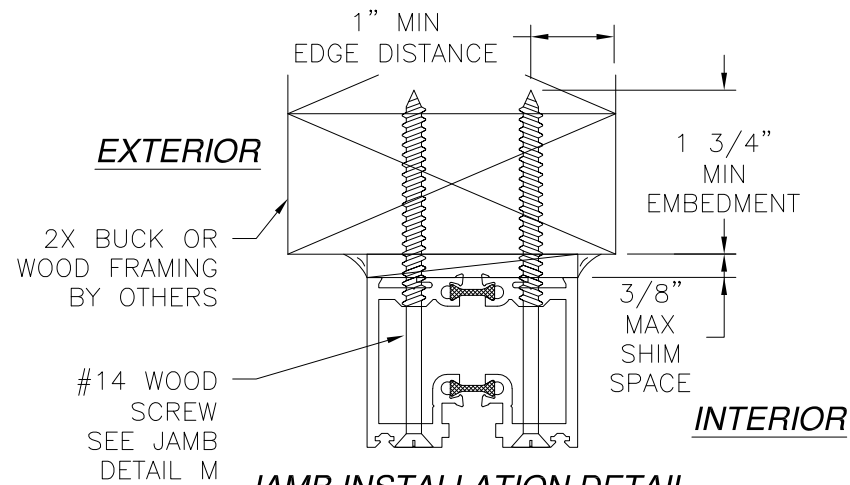
JAMB INSTALLATION DETAIL
METAL STRUCTURE
S45004 NO REINFORCEMENT



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

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.

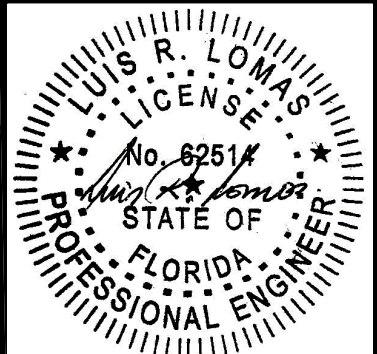
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 FGW 3X8 PANEL OUTFOLD
ALUMINUM REINFORCED – IMPACT – HVHZ
INSTALLATION DETAILS

DRAWN: R.L.	DWG NO. 08-01793	REV F
SCALE NTS	DATE 09/19/12	SHEET 15 OF 18

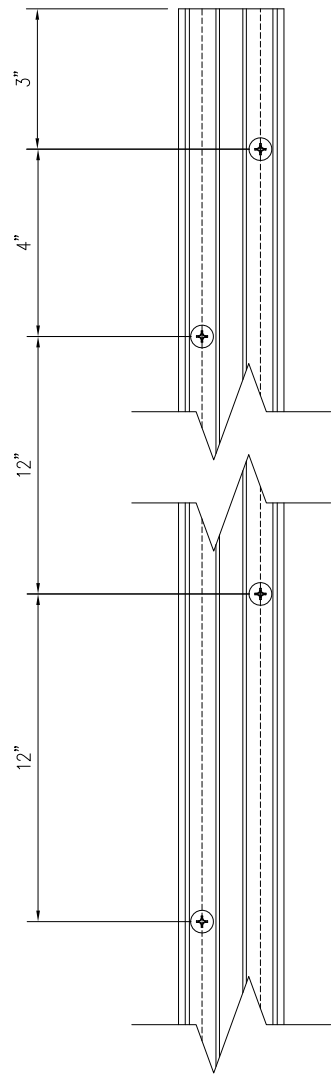
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 12/12/2023

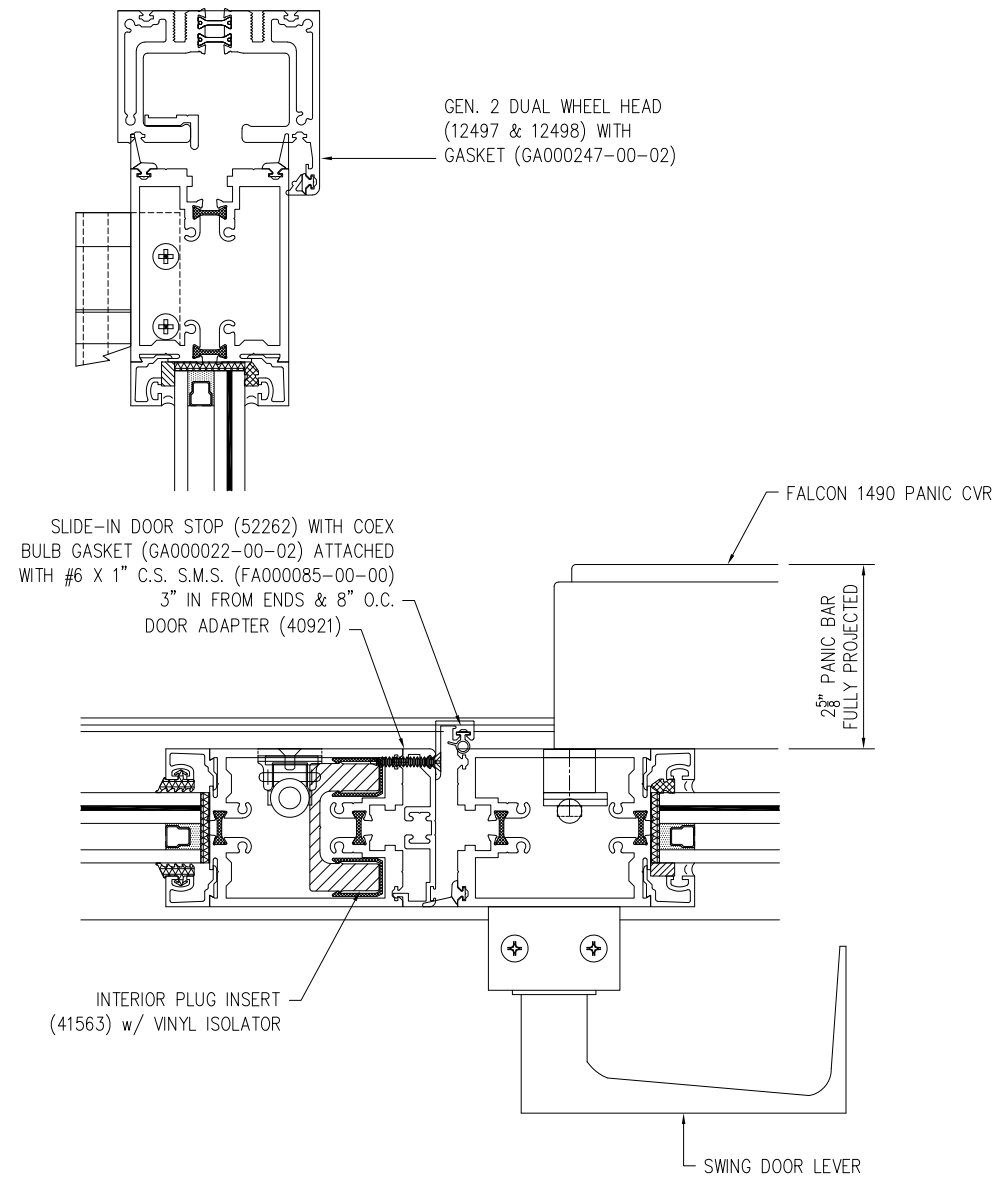


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/2023	R.L.



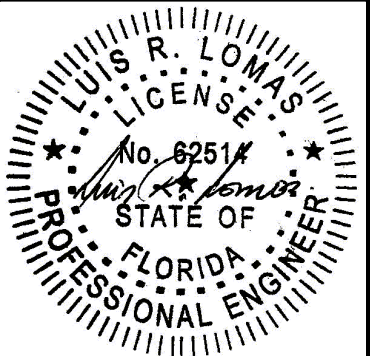
JAMB INSTALLATION DETAIL M
JAMB WITHOUT REINFORCEMENT



PANIC BAR DETAILS

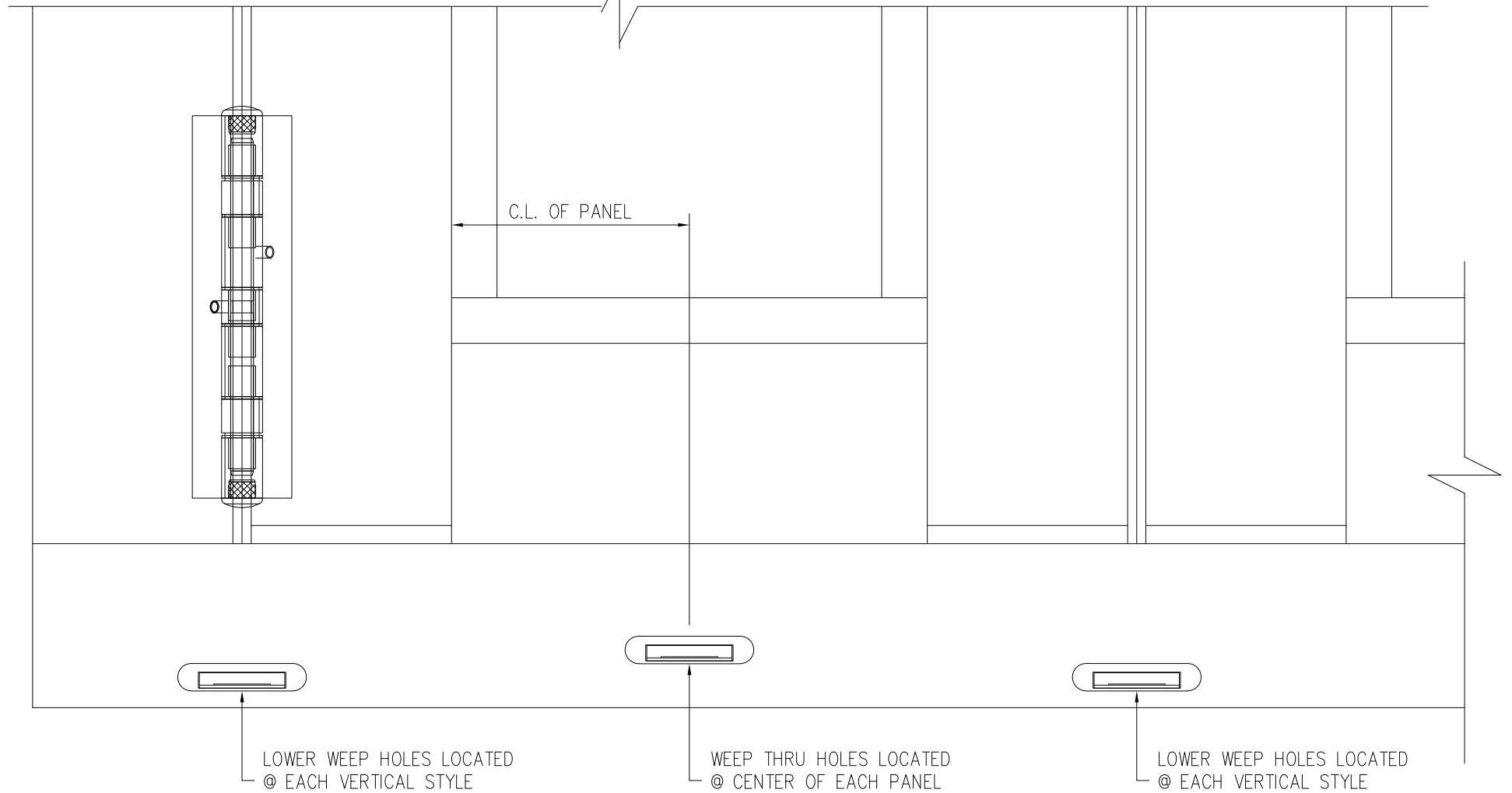
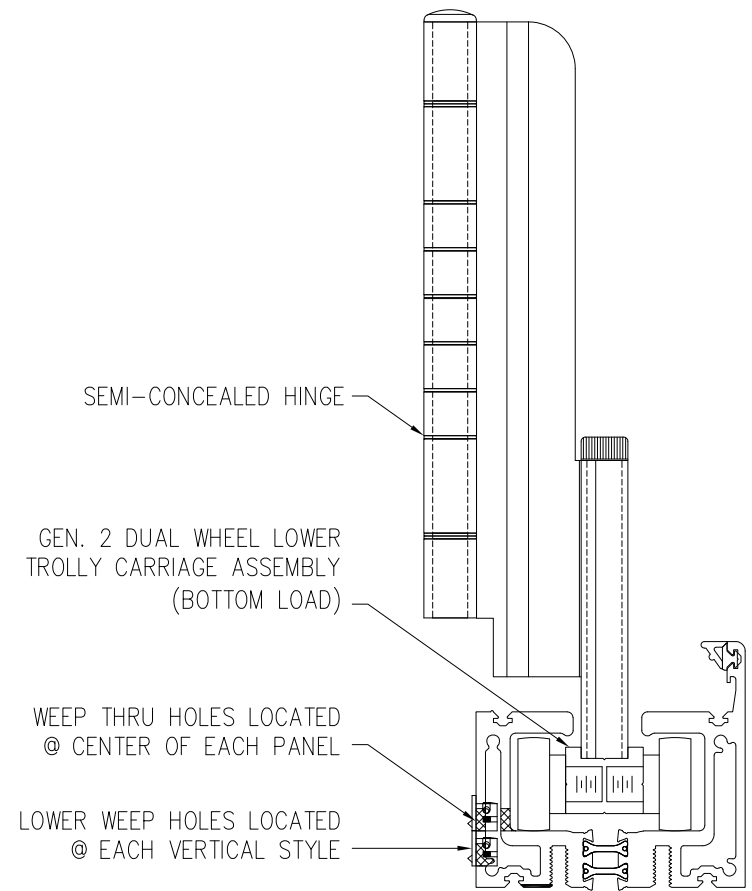
SIGNED: 12/12/2023

SOLAR INNOVATIONS, INC. 31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI3000 FGW 3X8 PANEL OUTFOLD ALUMINUM REINFORCED – IMPACT – HVHZ INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-01793	REV F
SCALE NTS	DATE 09/19/12	SHEET 16 OF 18
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

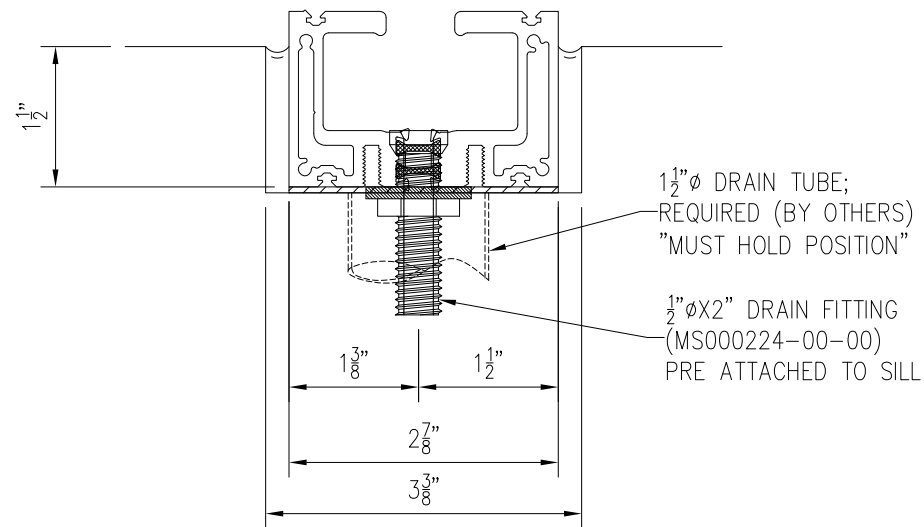


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/2023	R.L.



WEEP LOCATIONS



DRAIN PIPE DETAIL

SOLAR INNOVATIONS, INC.

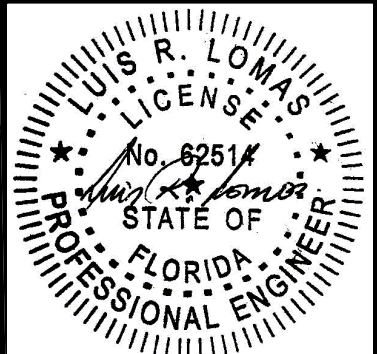
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 FGW 3X8 PANEL OUTFOLD
ALUMINUM REINFORCED - IMPACT - HVHZ
WEEP LOCATIONS

DRAWN: R.L.	DWG NO. 08-01793	REV F
SCALE NTS	DATE 09/19/12	SHEET 17 OF 18

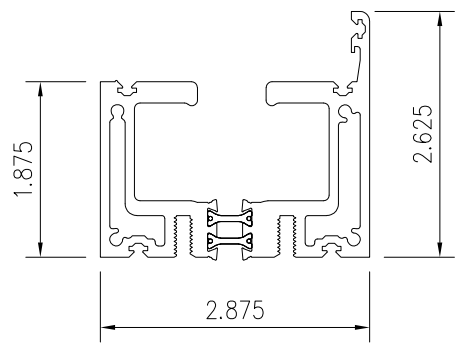
L. ROBERTO LOMAS P.E.
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434-688-0609 rllomas@lrlomaspe.com

SIGNED: 12/12/2023

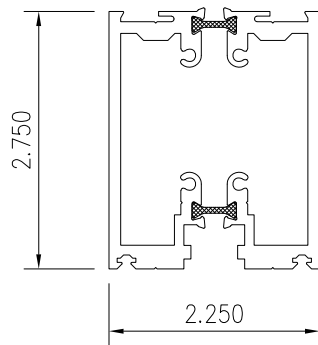


Luis R. Lomas P.E.
FL No.: 62514

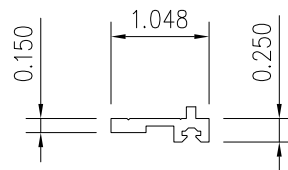
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED SEALS AND ANCHORS	12/01/2023	R.L.



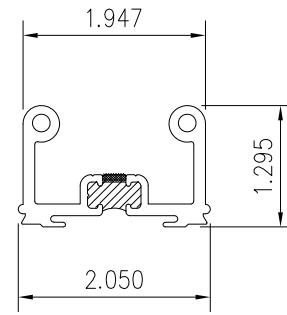
1 DUAL WHEEL
HEAD / SILL



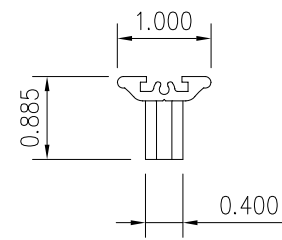
2 REGULAR THERMAL
FRAME



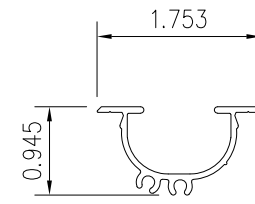
3 FRAME
CAP



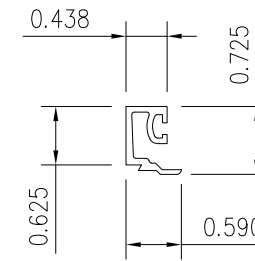
4 FRAME
LUG



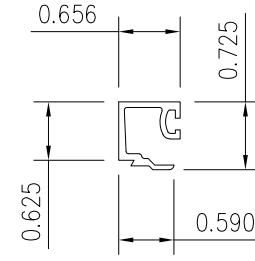
6 LOW-PROFILE
HANDLE



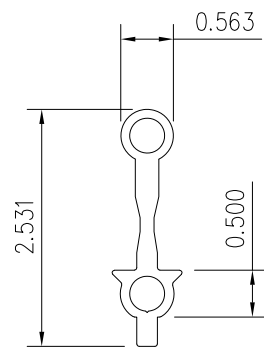
7 RECESSED / FLUSH
HANDLE



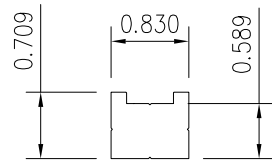
8 1" GLASS
STOP



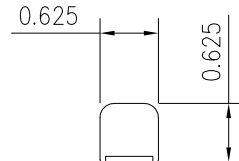
9 9/16" GLASS
STOP



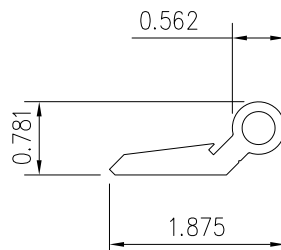
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EXTENSION



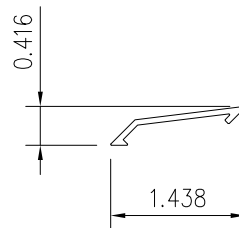
12 TROLLEY
BODY



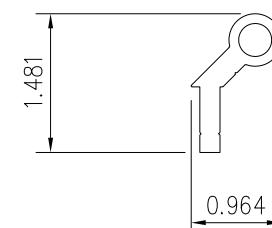
13 IDLER
BODY



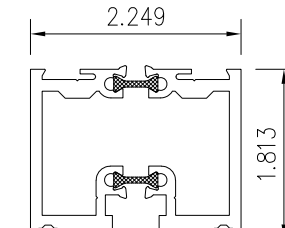
14 5 1/4"
HINGE



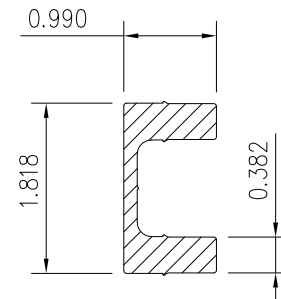
15 5 1/4"
HINGE COVER



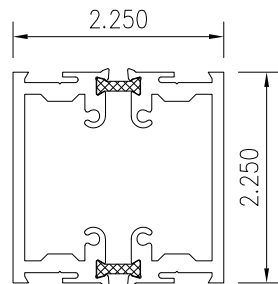
17 5 1/4" SEMI-
CONCEALED HINGE



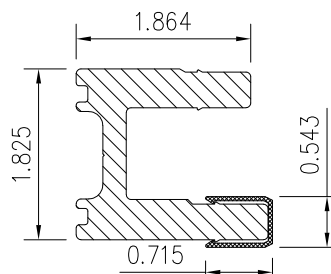
18 FRAME
NARROW



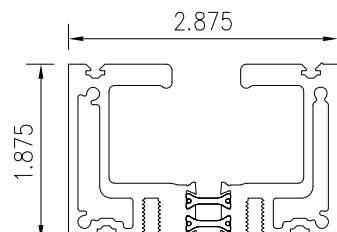
PANIC BAR
ALUMINUM INSERT



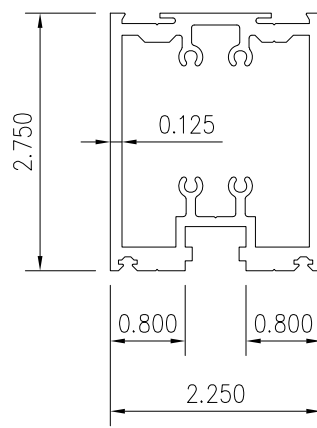
43 MULLION
FRAME



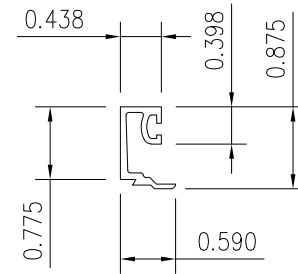
47 REGULAR
RAIL INSERT



48 FLUSH SILL



49 REGULAR NON-THERMAL
FRAME



1/2" GLASS
STOP

SOLAR INNOVATIONS, INC.

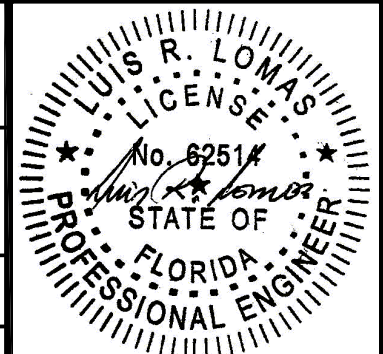
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 FGW 3X8 PANEL OUTFOLD
ALUMINUM REINFORCED - IMPACT - HVHZ
COMPONENTS

DRAWN: R.L.	DWG NO. 08-01793	REV F
SCALE NTS	DATE 09/19/12	SHEET 18 OF 18

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