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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE 2006 IBC & 2006 IRC WITH STATE OF TEXAS MODIFICATIONS.
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. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
5. FRAME MATERIAL: ALUMINUM 6063–T6
6. UNITS MUST BE GLAZED PER ASTM E1300–04, SEE SHEET 6 FOR GLASS DETAILS.
7. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
8. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
9. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #14 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
10. FOR ANCHORING INTO MASONRY/CONCRETE USE 1/4" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2'' MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
11. FOR ANCHORING INTO METAL STRUCTURE USE #14 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
12. ALL FASTENERS TO BE CORROSION RESISTANT.
13. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
    A. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
    B. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.
    C. MASONRY – STRENGTH CONFORMANCE TO ASTM C–90, GRADE N, TYPE 1 (OR GREATER).
    D. METAL STRUCTURE: STEEL 12GA, 33KSI OR ALUMINUM 6063–T5 1/8" THICK MINIMUM

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

SI 33350 G3 IMPACT FGW 3.5X9.5 PANEL
90° CORNER NO–POST – FLUSH SILL
NOTES

DRAWN:	DWG NO.	REV
N.G.	08–02639	–
SCALE NTS	DATE 03/19/15	SHEET 1 OF 10

STATE OF TEXAS
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101889
LICENSED
PROFESSIONAL ENGINEER

Luis R. Lomas P.E.
Texas No. 101889

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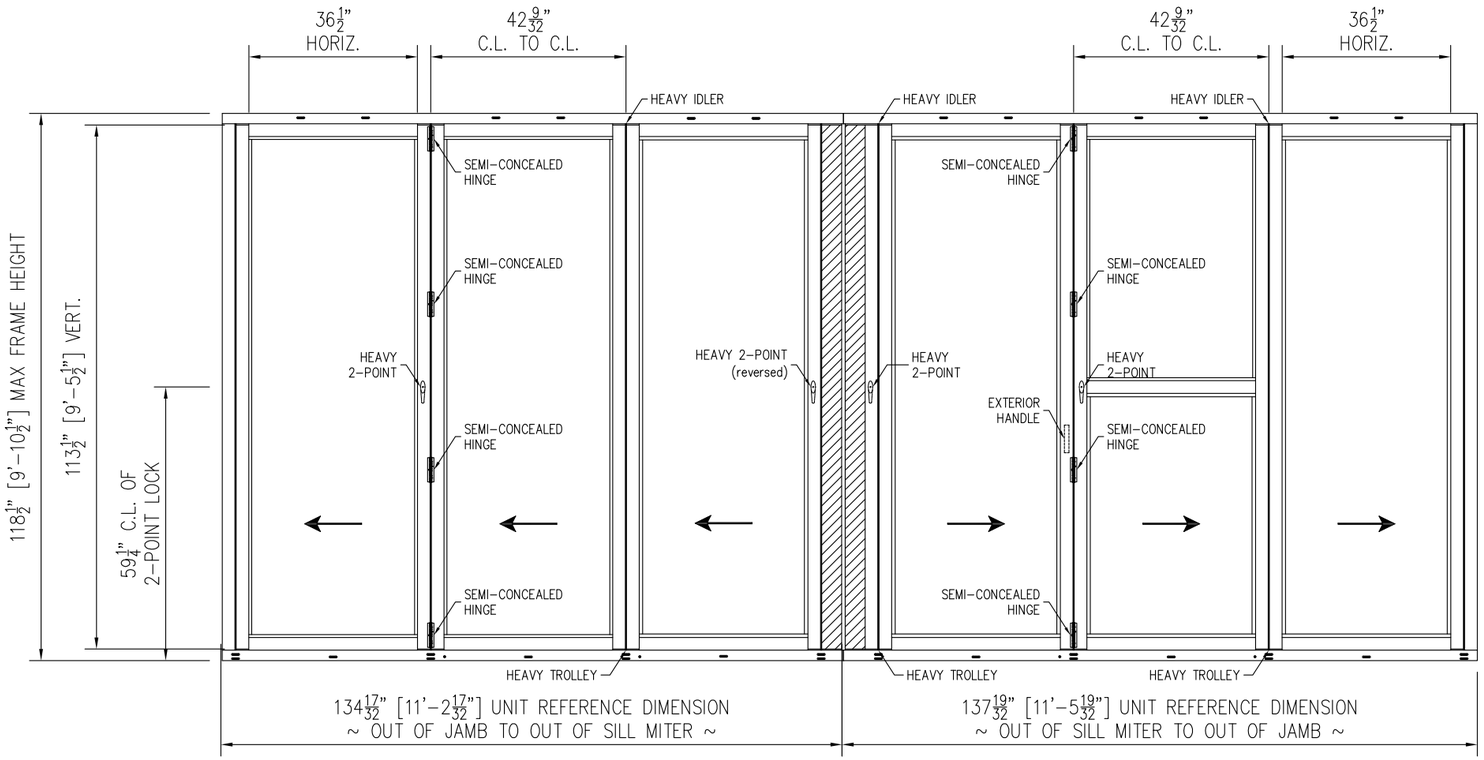
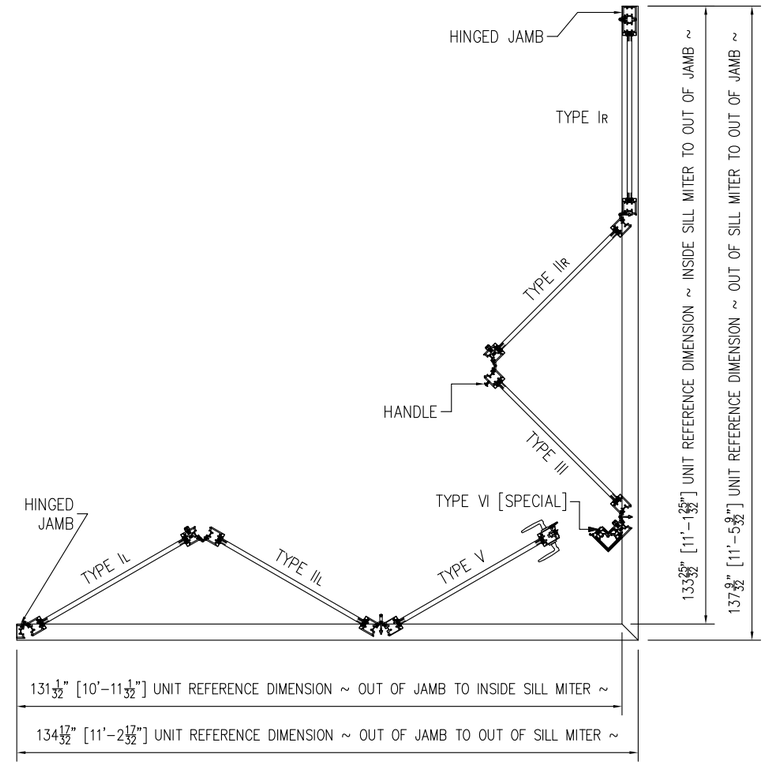


SI 33350 G3 IMPACT FGW 3.5X9.5 PANEL 90° CORNER NO-POST - FLUSH SILL

EXTERIOR VIEW

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

MISSILE LEVEL D, WIND ZONE 4



SI 33350 G3 IMPACT FGW 3.5X9.5 PANEL 90° CORNER NO-POST - FLUSH SILL

PLAN VIEW

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HARDWARE SCHEDULE
A. SEMI-CONCEALED HINGE BY SOLAR INNOVATIONS
B 2 POINT HANDLE & LOCK MS000487-XX BY SOLAR INNOVATIONS

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31 ROBERTS RD
PINE GROVE, PA 17963

SI 33350 G3 IMPACT FGW 3.5X9.5 PANEL
90° CORNER NO-POST – FLUSH SILL
ELEVATIONS

DRAWN:	DWG NO.	REV
N.G.	08-02639	–

SCALE	DATE	SHEET
NTS	03/19/15	2 OF 10

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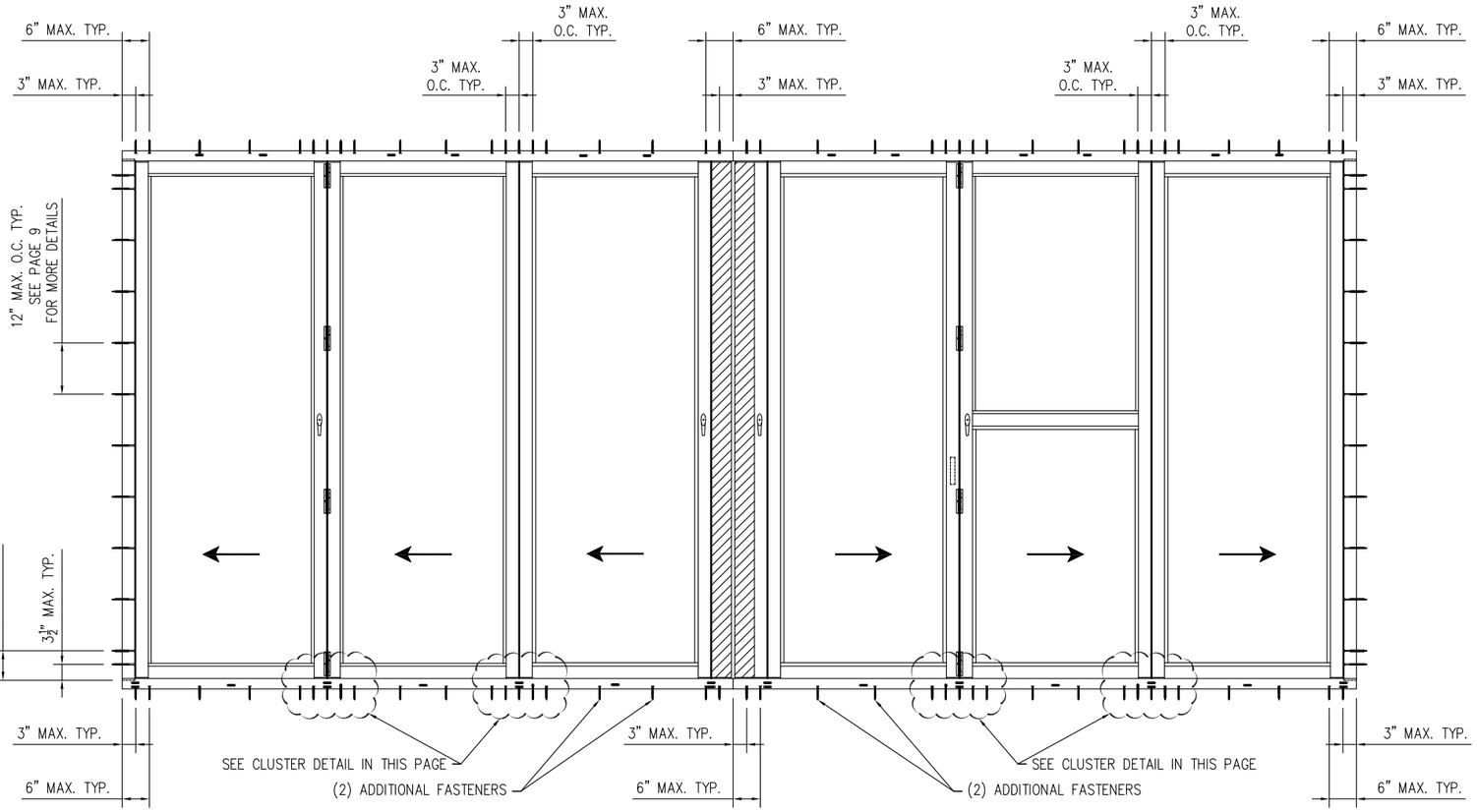
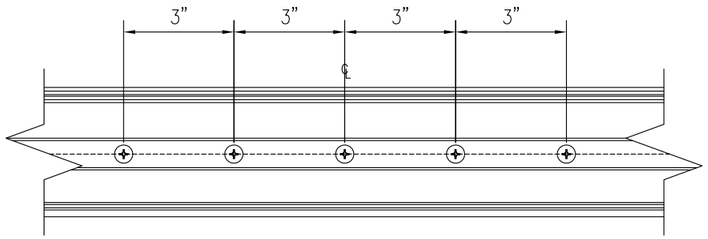
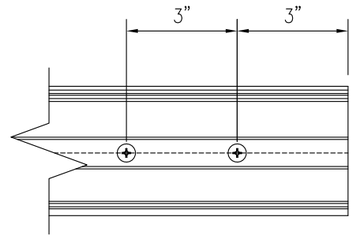


ANCHOR LAYOUT

APPLICABLE TO ALL CONFIGURATIONS.



SILL AND HEAD
CLUSTER DETAIL



SILL AND HEAD
END DETAIL

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31 ROBERTS RD
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SI 33350 G3 IMPACT FGW 3.5X9.5 PANEL
90° CORNER NO-POST – FLUSH SILL
ANCHOR LAYOUT

DRAWN:	DWG NO.	REV
N.G.	08-02639	–
SCALE NTS	DATE 03/19/15	SHEET 3 OF 10

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REVISIONS			
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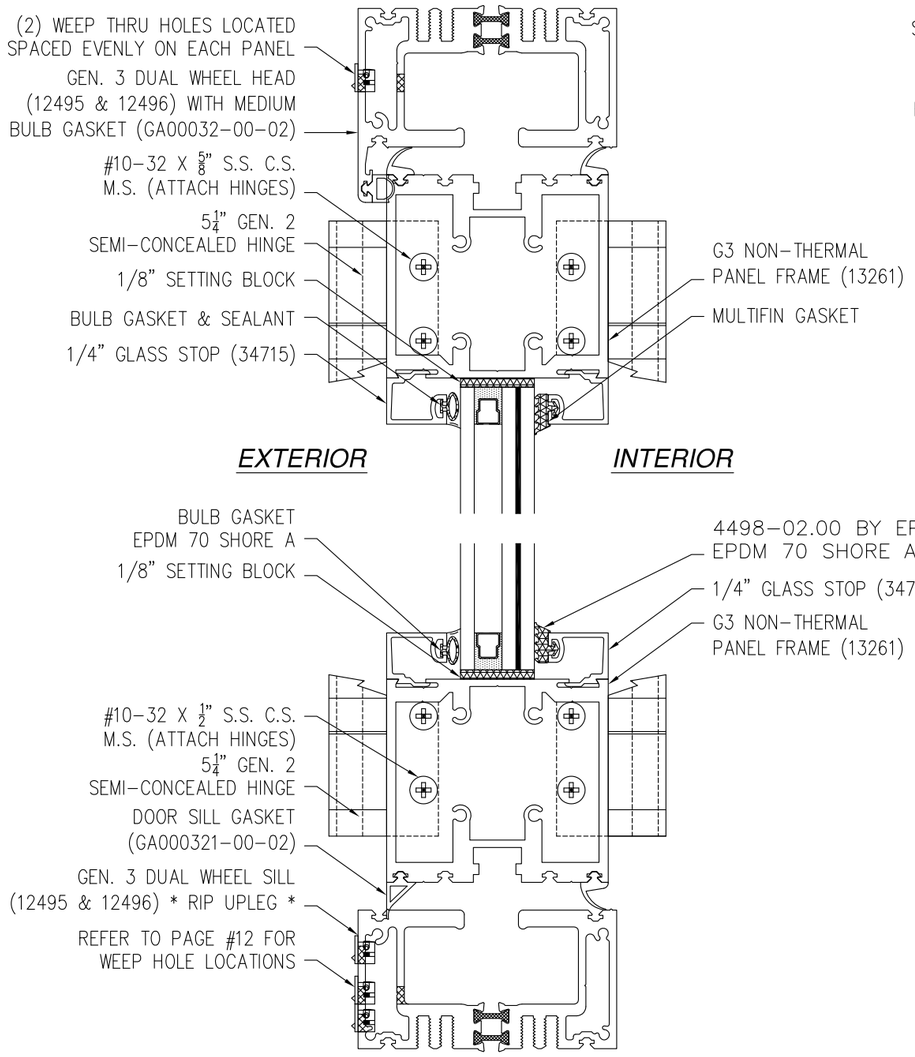
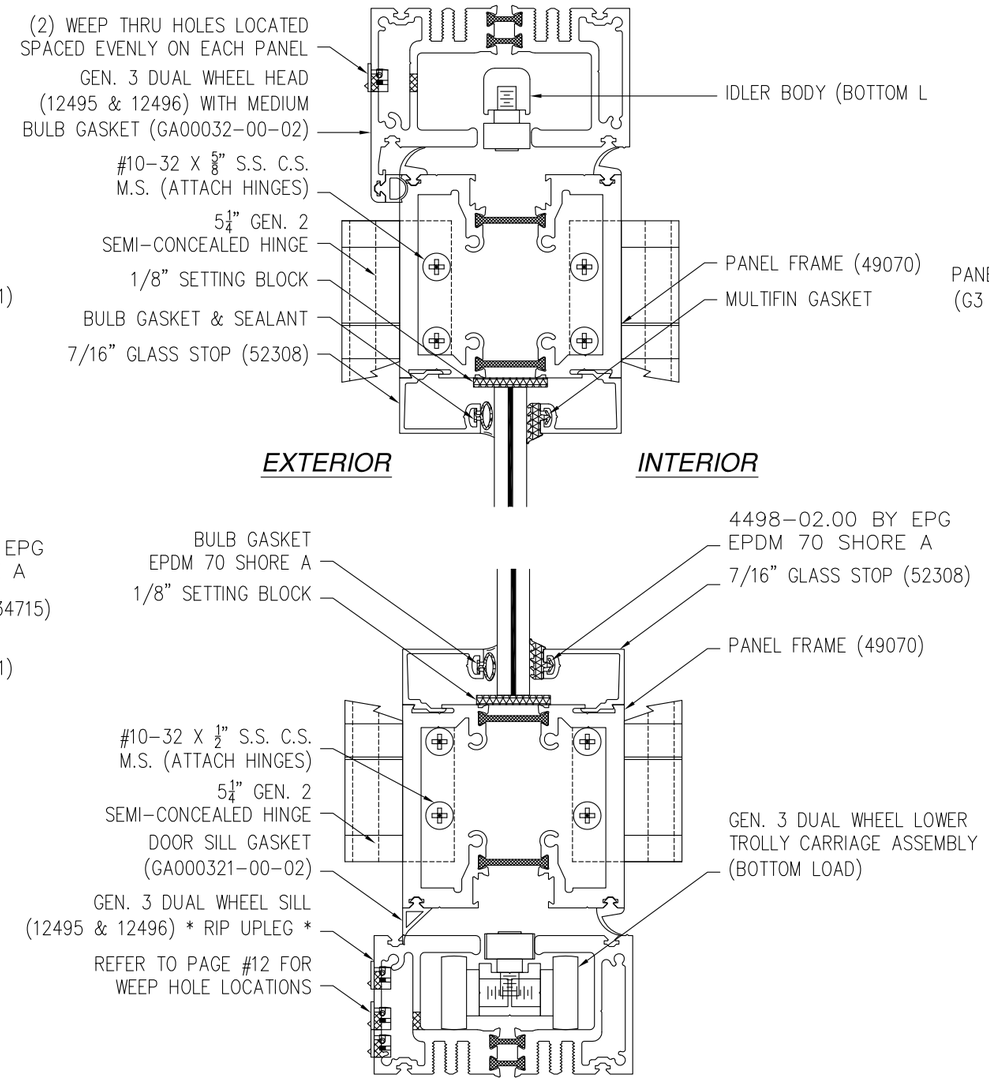
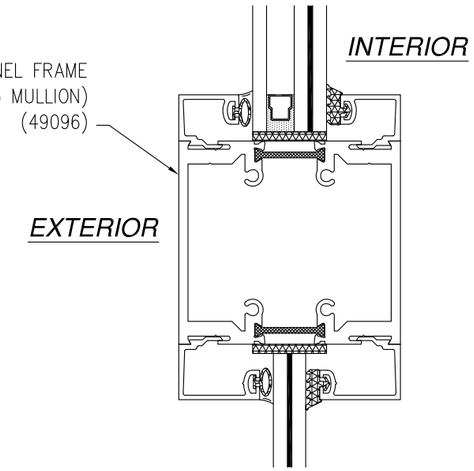


VERTICAL CROSS SECTION
STANDARD



VERTICAL CROSS SECTION
BOTTOM LOAD SILL



VERTICAL CROSS SECTION
HORIZONTAL RAIL OPTIONAL

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31 ROBERTS RD
PINE GROVE, PA 17963

SI 33350 G3 IMPACT FGW 3.5X9.5 PANEL
90° CORNER NO-POST – FLUSH SILL
CROSS SECTIONS

DRAWN:	DWG NO.	REV
N.G.	08-02639	–
SCALE NTS	DATE 03/19/15	SHEET 4 OF 10

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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

CONTINUED IN SHEET 6

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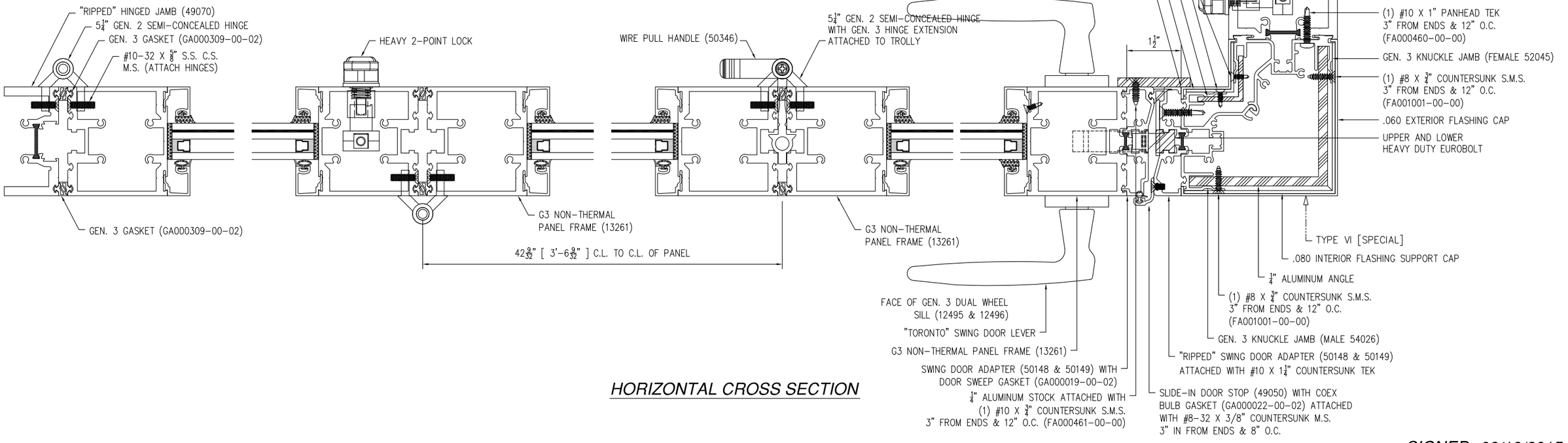

HORIZONTAL CROSS SECTION

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31 ROBERTS RD
PINE GROVE, PA 17963

SI 33350 G3 IMPACT FGW 3.5X9.5 PANEL
90° CORNER NO-POST – FLUSH SILL
CROSS SECTIONS

DRAWN:	DWG NO.	REV
N.G.	08-02639	–
SCALE NTS	DATE 03/19/15	SHEET 5 OF 10

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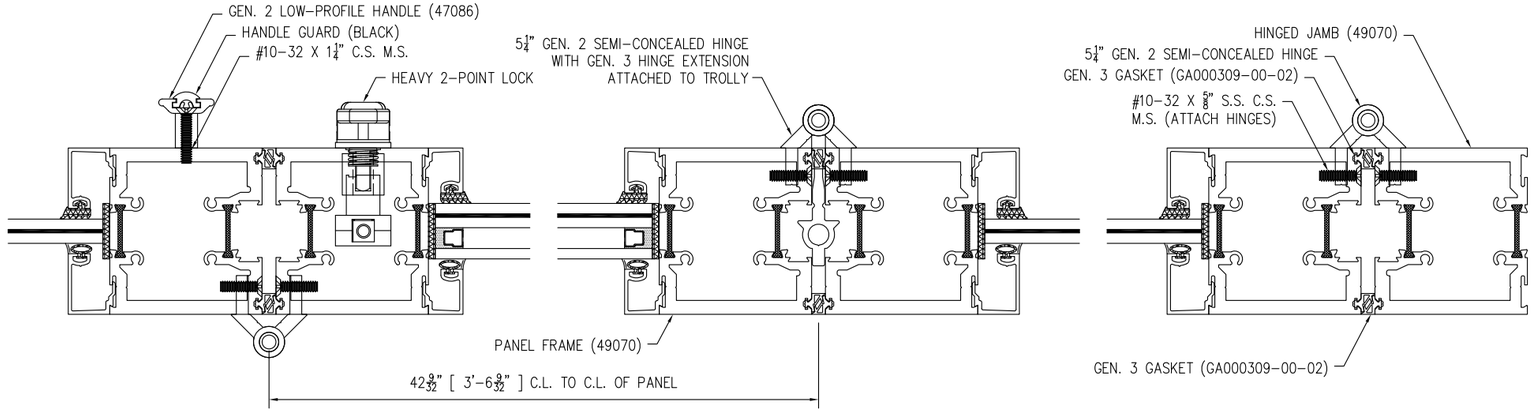
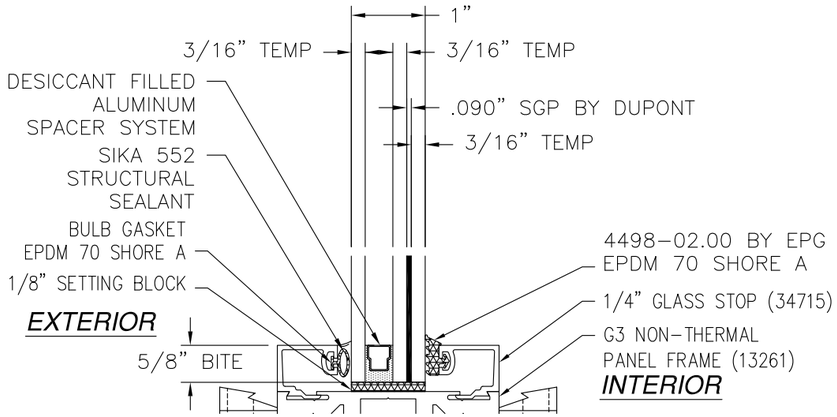
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

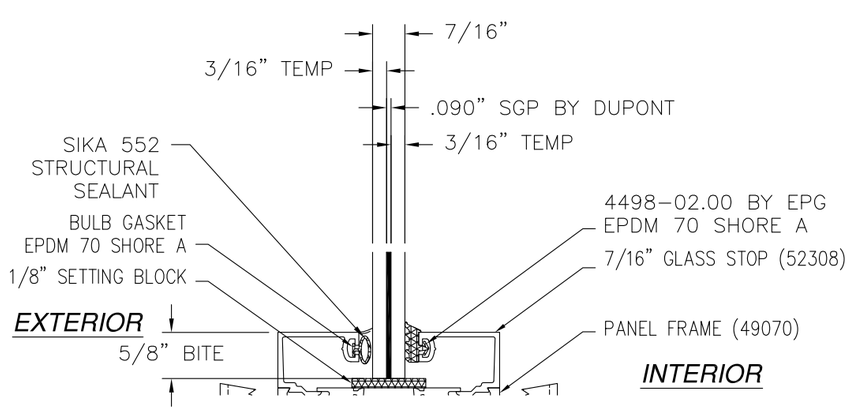
CONTINUED FROM SHEET 5



HORIZONTAL CROSS SECTION



GLAZING DETAIL A



GLAZING DETAIL B

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31 ROBERTS RD
PINE GROVE, PA 17963

SI 33350 G3 IMPACT FGW 3.5X9.5 PANEL
90° CORNER NO-POST – FLUSH SILL
CROSS SECTIONS

DRAWN:	DWG NO.	REV
N.G.	08-02639	–
SCALE NTS	DATE 03/19/15	SHEET 6 OF 10

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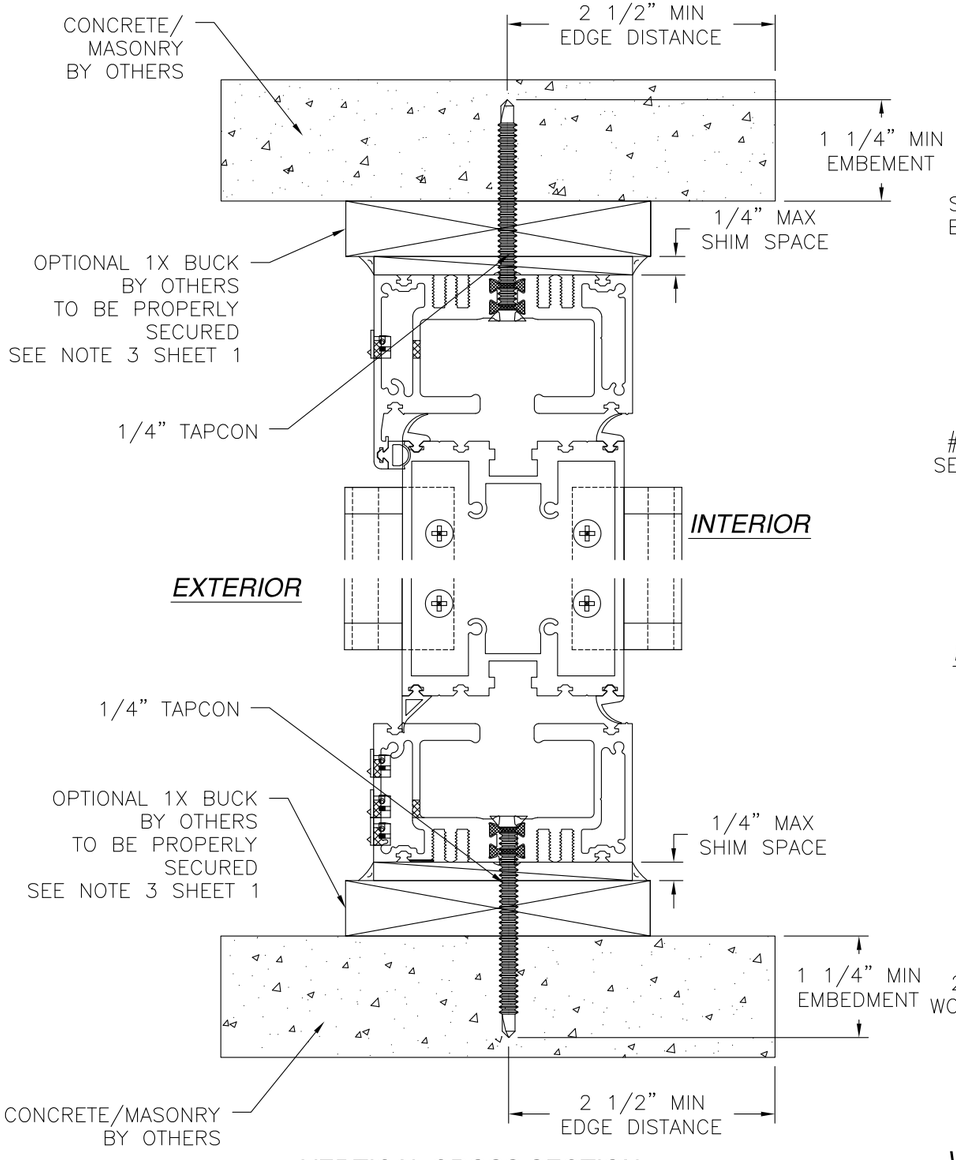
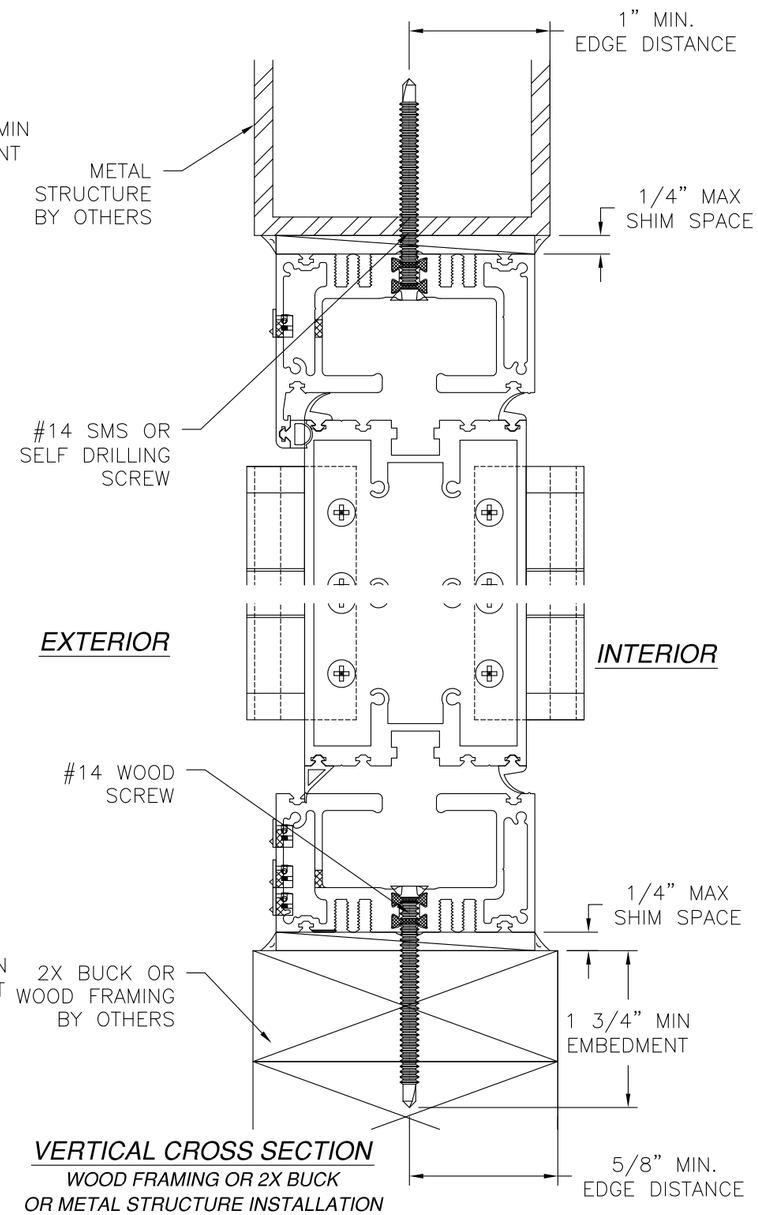


VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK
OR METAL STRUCTURE 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

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

SI 33350 G3 IMPACT FGW 3.5X9.5 PANEL
90° CORNER NO-POST – FLUSH SILL
INSTALLATION DETAIL

DRAWN:	DWG NO.	REV
N.G.	08-02639	–
SCALE NTS	DATE 03/19/15	SHEET 7 OF 10

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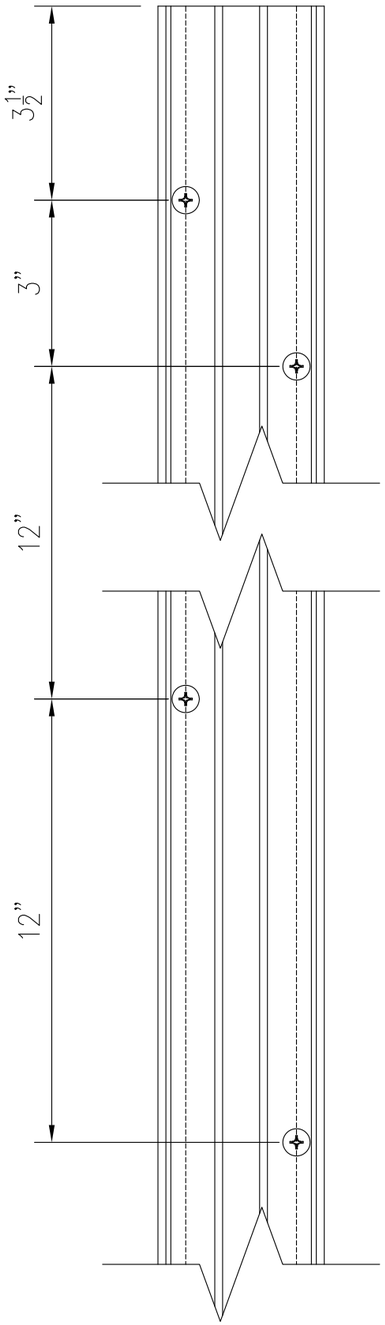
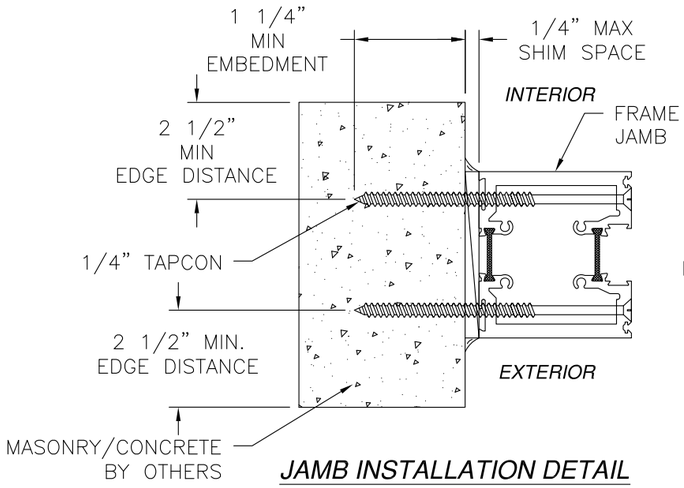
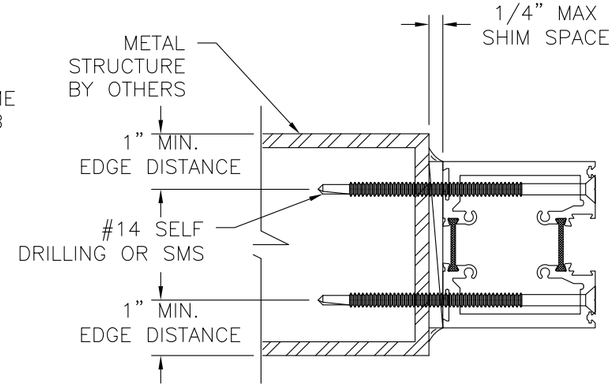


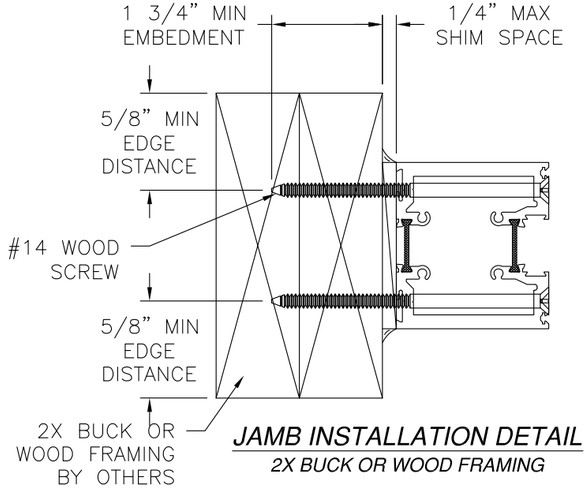
JAMB ANCHOR LOCATIONS DETAIL



JAMB INSTALLATION DETAIL
MASONRY/CONCRETE



JAMB INSTALLATION DETAIL
METAL STRUCTURE



JAMB INSTALLATION DETAIL
2X BUCK OR WOOD FRAMING

NOTES:
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31 ROBERTS RD
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SI 33350 G3 IMPACT FGW 3.5X9.5 PANEL
90° CORNER NO-POST – FLUSH SILL
INSTALLATION DETAIL

DRAWN:	DWG NO.	REV
N.G.	08-02639	–
SCALE NTS	DATE 03/19/15	SHEET 8 OF 10

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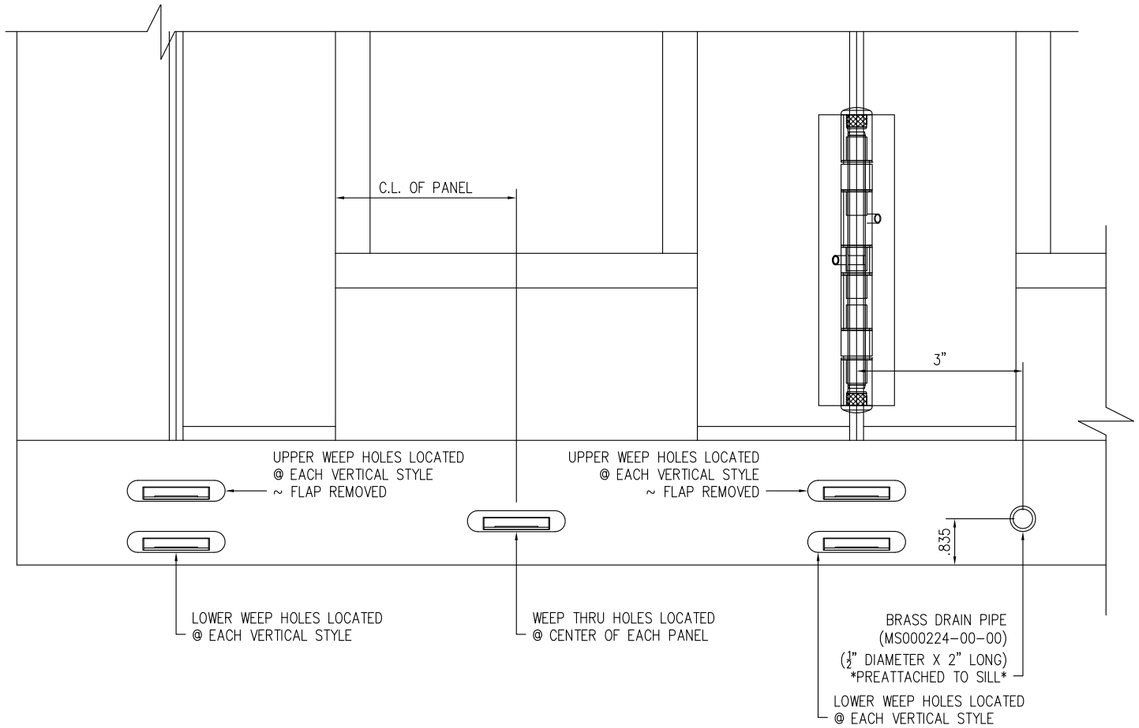
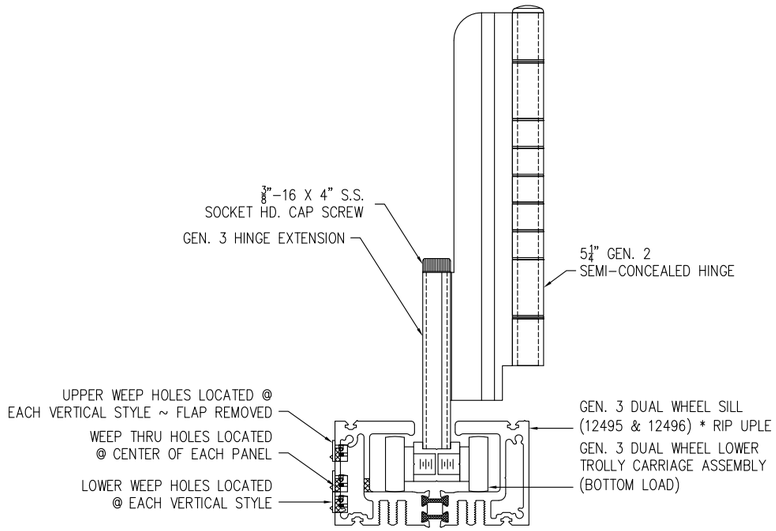
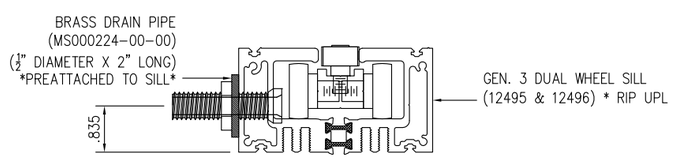




WEEP HOLES LOCATION DETAILS



DRAIN PIPE DETAIL

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

SI 33350 G3 IMPACT FGW 3.5X9.5 PANEL
90° CORNER NO-POST – FLUSH SILL
WEEP HOLES DETAILS

DRAWN:	DWG NO.	REV
N.G.	08-02639	–
SCALE NTS	DATE 03/19/15	SHEET 9 OF 10

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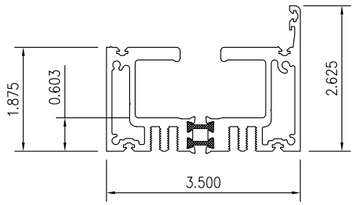
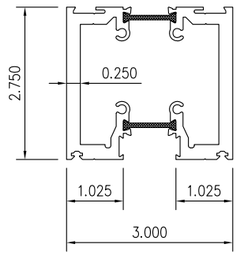
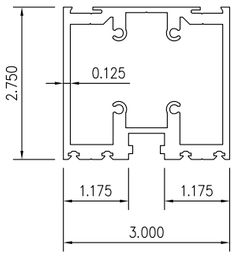
REV	DESCRIPTION	DATE	APPROVED



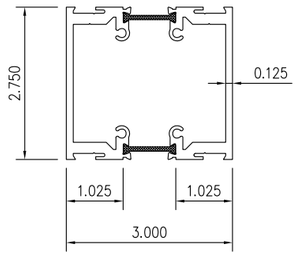
1 DUAL WHEEL HEAD / SILL



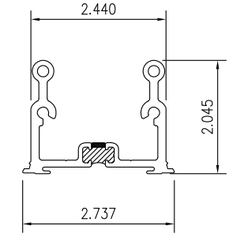
2 FRAME



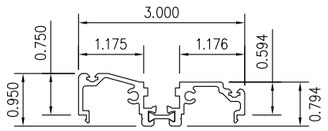
3 NON–THERMAL FRAME



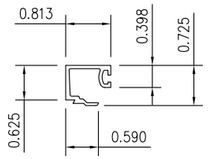
4 HORIZONTAL MULLION



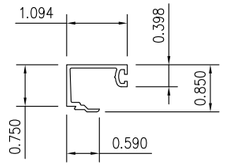
6 FRAME LUG



7 3rd GENERATION DOOR ADAPTOR

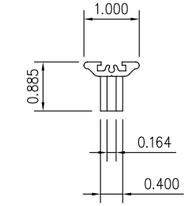


8 1/4" GLASS STOP

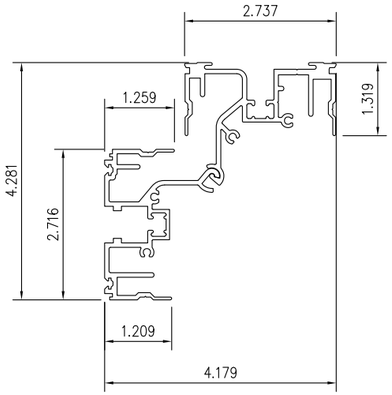


9 7/16" GLASS STOP

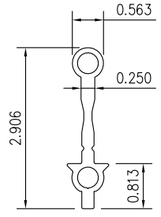
5 FRAME CAP



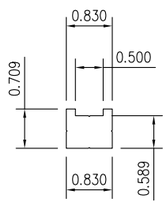
10 2nd GENERATION HANDLE



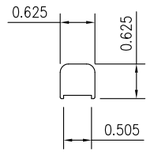
11 KNUCKLE JAMB



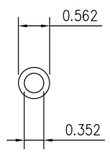
12 HINGE EXTENSION



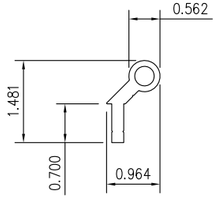
13 TROLLY BODY



14 IDLER BODY



15 HINGE BARREL



16 5 1/4" SEMI– CONCEALED HINGE

SIGNED: 03/19/2015

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

SI 33350 G3 IMPACT FGW 3.5X9.5 PANEL
90° CORNER NO–POST – FLUSH SILL
COMPONENTS

DRAWN:	DWG NO.	REV
N.G.	08–02639	–
SCALE NTS	DATE 03/19/15	SHEET 10 OF 10

STATE OF TEXAS
LUIS R. LOMAS
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LICENSED
PROFESSIONAL ENGINEER

Luis R. Lomas P.E.
Texas No. 101889