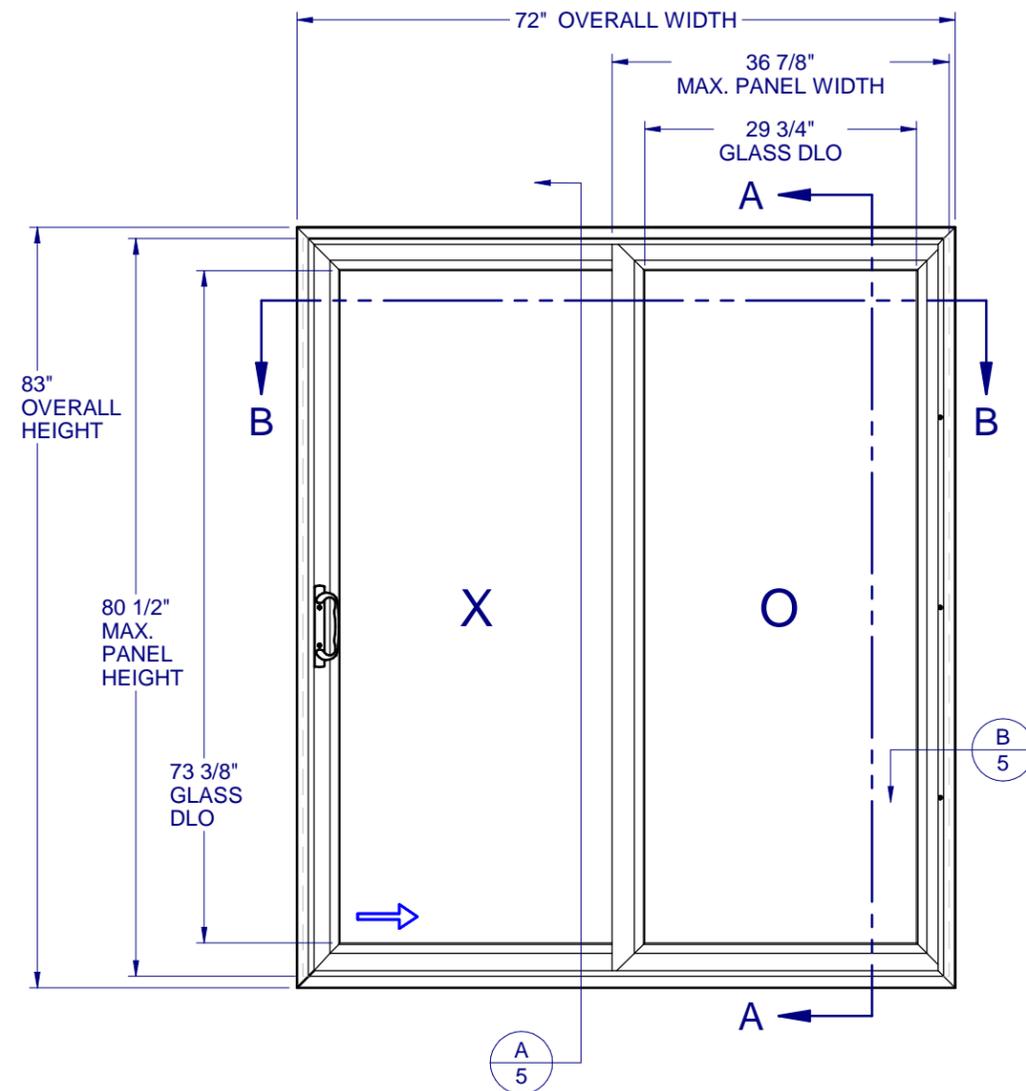


SLIDING GLASS DOOR - LARGE MISSILE IMPACT



GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE FLORIDA BUILDING CODE (FBC), CURRENT EDITION AND IS RATED FOR WIND ZONE 3 MISSILE LEVEL D IMPACT USE AS DEFINED IN ASTM E 1996 PER THE FBC.

THIS PRODUCT MAY NOT BE USED IN THE HIGH VELOCITY HURRICANE ZONE (HVHZ) OR IN ASTM E 1996 WIND ZONE 4 AREAS.

2. GLAZING OPTIONS: (SEE SHEET 2)

3. APPROVED CONFIGURATIONS: "XO", "OX".

4. DESIGN PRESSURES:
 -NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E-1300-04e01/09.
 -POSITIVE DESIGN LOADS BASED ON TESTED PRESSURE, WATER INFILTRATION TEST PRESSURE, AND GLASS TABLES ASTM E-1300-04e01/09.

5. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEET 5 FOR INSTALLATION DETAIL. WIND LOAD DURATION FACTOR $C_d=1.6$ WAS USED FOR WOOD ANCHOR CALCULATIONS.

6. PRODUCTS APPROVED FOR IMPACT RESISTANCE. SHUTTERS ARE NOT REQUIRED.

7. ALL FRAMES AND VENTS ARE FULLY WELDED.

8. SERIES/MODEL DESIGNATION SGD-8900.

9. THE DESIGNATION X STANDS FOR THE FOLLOWING:
 X = OPERABLE SASH, O = FIXED SASH.

10. SECTION CALLOUTS APPLY TO ALL ELEVATIONS IN A SIMILAR LOCATION.

11. WEEP SLOTS = 1/4" x 1" LOCATED 8" FROM BOTH ENDS.

12. INSTALLATION WITH NO SILL RISER IS ALLOWED ONLY WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED.



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8900 PVC SLIDING GLASS DOOR - IMPACT

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8/05/2020

LUCAS A. TURNER, P.E.
 FL PE # 58201
 2428 Old Natchez Trc Trl
 Camden, TN 38320
 PH. 941-380-1574

SHEET DESCRIPTION:

GENERAL NOTES AND ELEVATIONS

| | |
|-------------------|-------------------|
| DRAWN BY: EMK | DATE: 08/01/14 |
| DWG #: CWS-928 | REV.: C |
| SCALE: 1:20 | SHEET 1 OF 5 |

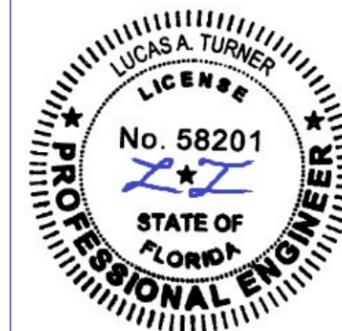
TABLE OF CONTENTS

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|---------------------------------|---|
| GENERAL NOTES & ELEVATIONS..... | 1 |
| SECTION VIEWS & GLAZING..... | 2 |
| EXTRUSIONS & B.O.M..... | 3 |
| ANCHOR SCHEDULE & NOTES..... | 4 |
| INSTALLATION DETAILS..... | 5 |

| MAX. UNIT SIZE | DESIGN PRESSURE RATING | IMPACT RATING |
|----------------|------------------------|----------------------|
| 72" x 83" | +/- 55 PSF | LARGE MISSILE IMPACT |

**8900 PVC
SLIDING GLASS
DOOR - IMPACT**

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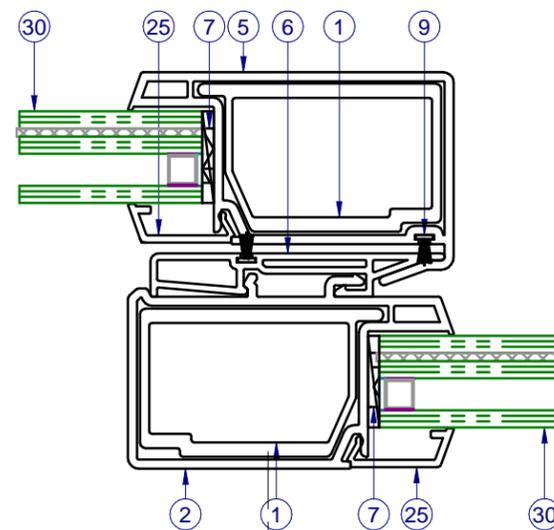
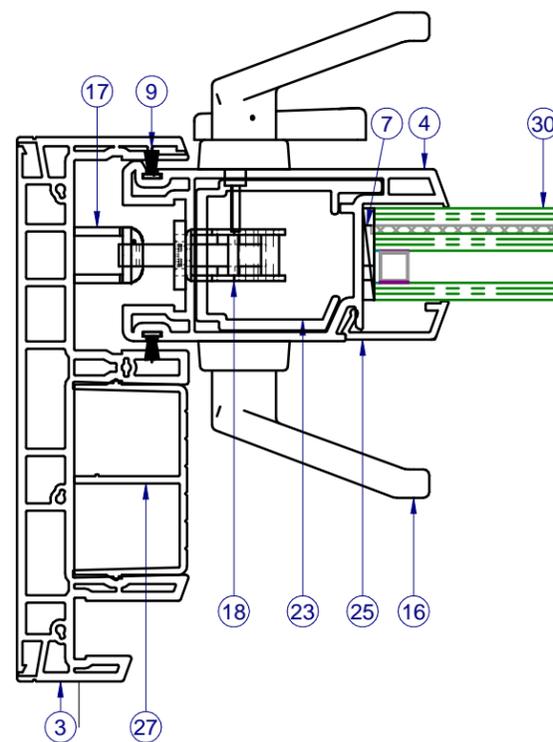
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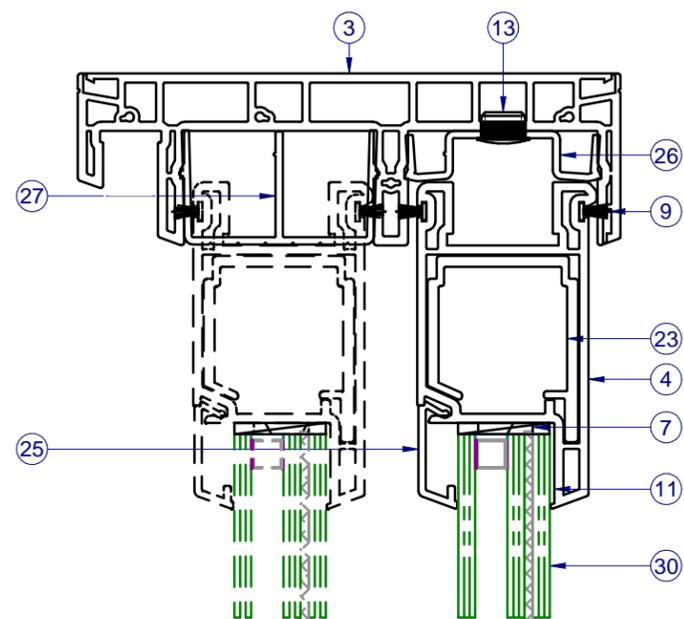
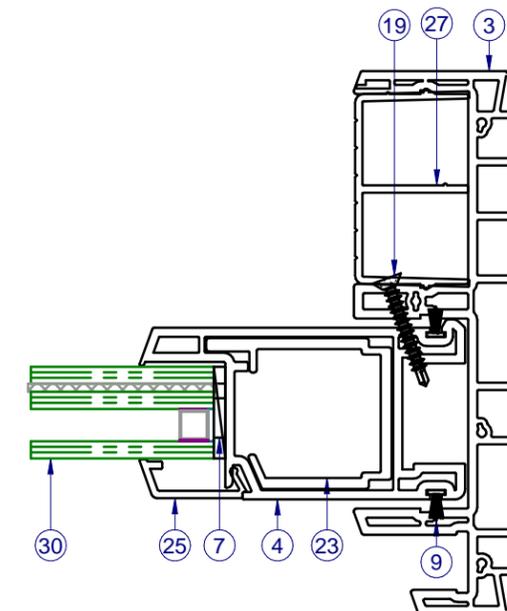
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**SECTION VIEWS AND
GLAZING DETAIL**

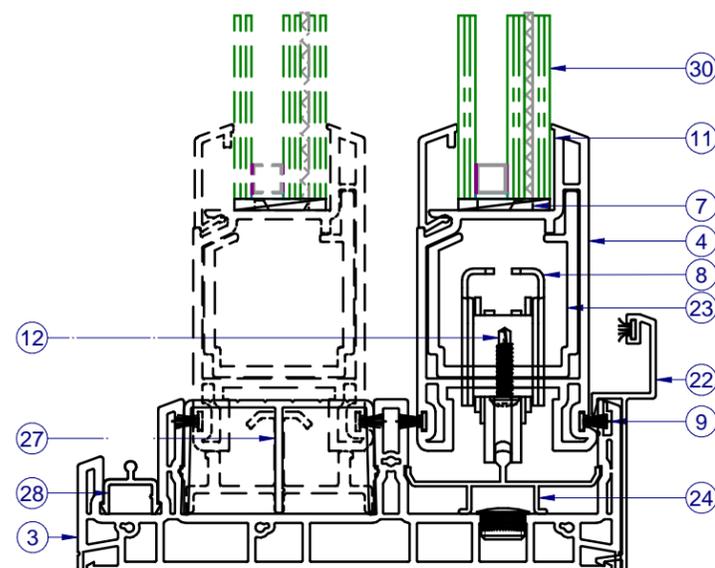
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|--------------------------|--------------------------|
| DRAWN BY: EMK | DATE: 08/01/14 |
| DWG #: CWS-928 | REV.: C |
| SCALE: 1:2 | SHEET 2 OF 5 |



SECTION VIEW B-B

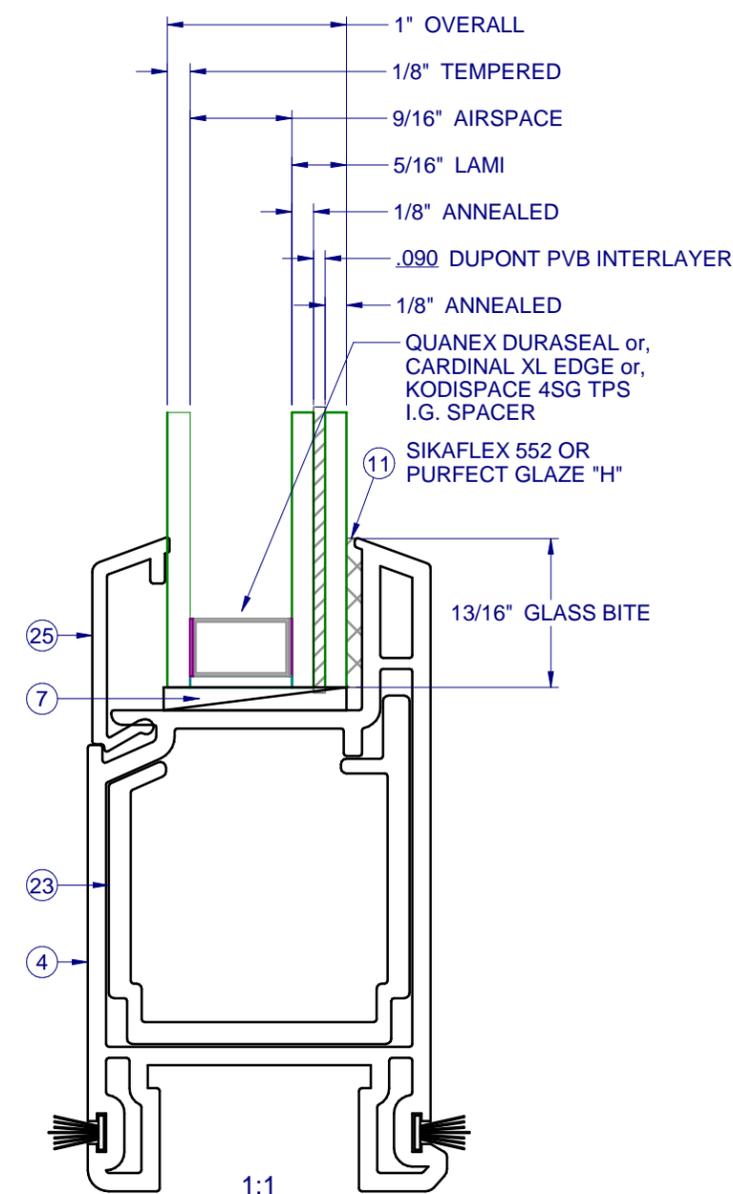


SECTION VIEW A-A

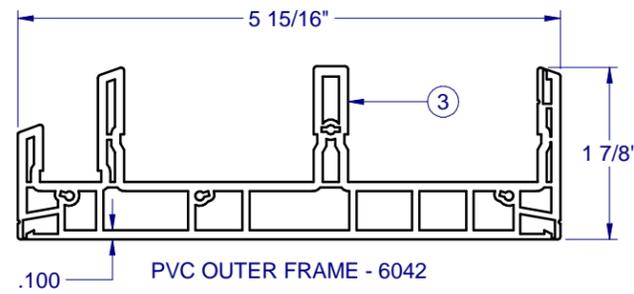


SEE NOTE 12 ON SHEET 1

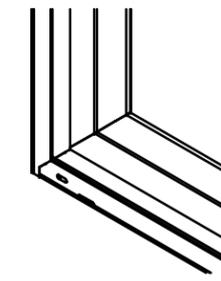
* SETTING BLOCKS PER FBC 2411.3.3.1



| PARTS LIST | | | |
|------------|--------|---|----------|
| ITEM | PART # | DESCRIPTION | MATERIAL |
| 1 | H-1993 | REINFORCEMENT, PVC SGD, INTERLOCK | ALUM |
| 2 | H-6033 | PANEL, INTERLOCK, FIXED | PVC |
| 3 | H-6042 | FRAME, MAIN, SGD | PVC |
| 4 | H-6059 | PANEL TOP/BOTTOM/SIDE RAIL, SGD | PVC |
| 5 | H-6060 | PANEL, INTERLOCK, OPERABLE | PVC |
| 6 | H-6061 | INTERLOCK, SNAP-ON | PVC |
| 7 | P-5615 | SETTING BLOCK, 85 DUR. 1/8" X 1" X 2" | RUBBER |
| 8 | P-3142 | ROLLER, TANDEM (SGD, PLATED STEEL) | STEEL |
| 9 | P-3302 | WSTP., 0.330 X .187, BACK FINSEAL, GRAY | |
| 10 | P-3342 | SEAM SEALER, SM-5504 | |
| 11 | P-3438 | SIKAFLEX 552 OR PURFECT GLAZE "H" | |
| 12 | P-3539 | #8 X 3/4" QUAD PHILIPS, TEK | ZINC |
| 13 | P-5588 | CAP PLUG, 1/2" HOLE | NYLON |
| 14 | P-3756 | #10 x 1-1/2" PH PAN SMS | ZINC |
| 15 | P-3768 | #8 x 5/8" PH PAN SMS | ZINC |
| 16 | P-5536 | LOCK & HANDLE KIT, PVC, SGD | STEEL |
| 17 | P-3792 | 3/4" KEEPER | SS |
| 18 | P-3793 | MORTISE LOCK | SS |
| 19 | P-4051 | #8 x 1-1/2" PH FLAT TYPE A TEK | ZINC |
| 20 | P-4250 | #10 x 2-1/2" PH PAN SMS | ZINC |
| 21 | S-1722 | SUPPORT BLOCK, FIXED, SGD | ALUM |
| 22 | S-1737 | HIGHRISE SILL, ALUMINUM | ALUM |
| 23 | S-1775 | REINFORCEMENT, PVC SGD, PANEL | ALUM |
| 24 | S-1930 | PANEL TRACK, ALUMINUM, SGD, SILL | ALUM |
| 25 | S-6037 | GLAZING BEAD 1.00", SGD | PVC |
| 26 | S-6039 | ANTI-LIFT BLOCK, PVC SGD | PVC |
| 27 | S-6040 | THRESHOLD/FILLER, SGD | PVC |
| 28 | S-6041 | TRACK, SCREEN, SGD | PVC |
| 29 | S-6046 | SUPPORT WELD, SGD | PVC |
| 30 | | GLASS (SEE SHEET 2) | |



CORNER CONSTRUCTION



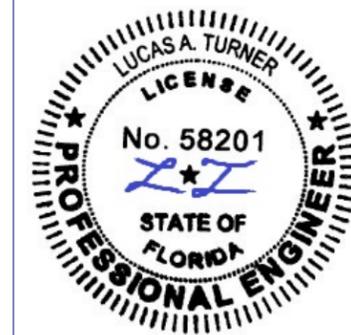
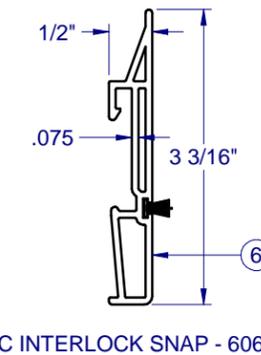
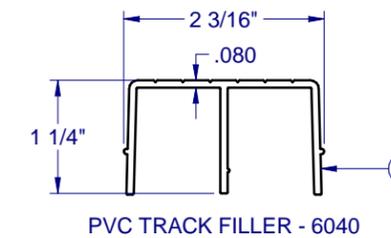
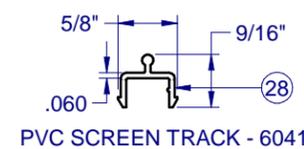
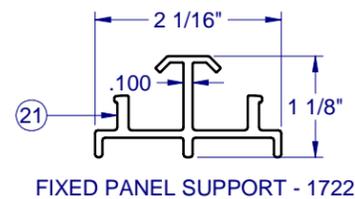
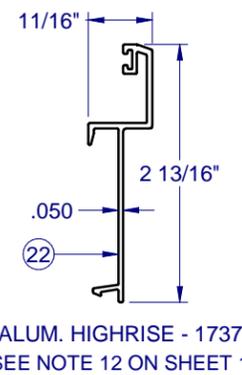
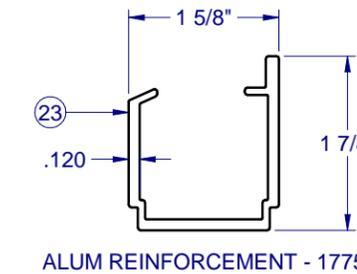
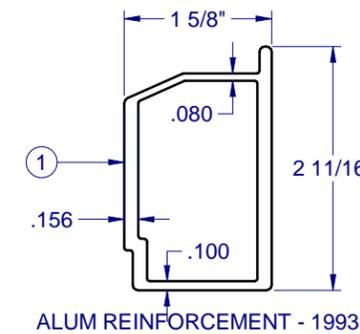
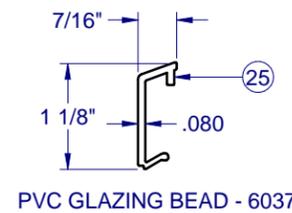
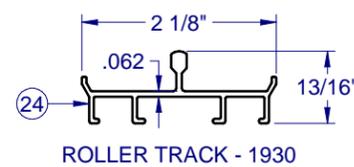
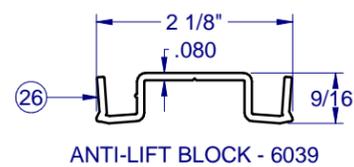
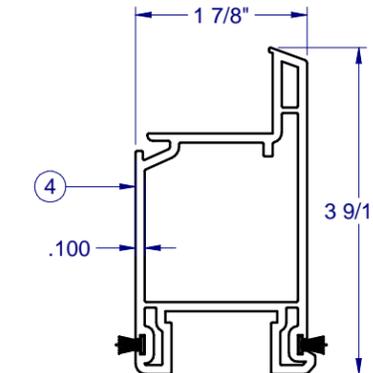
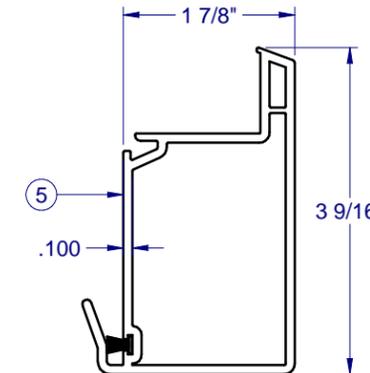
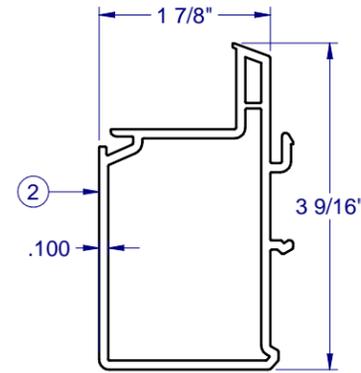
ALL CORNERS WELDED
1:10

Custom
WINDOW SYSTEMS

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**8900 PVC
SLIDING GLASS
DOOR - IMPACT**

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SHEET DESCRIPTION:

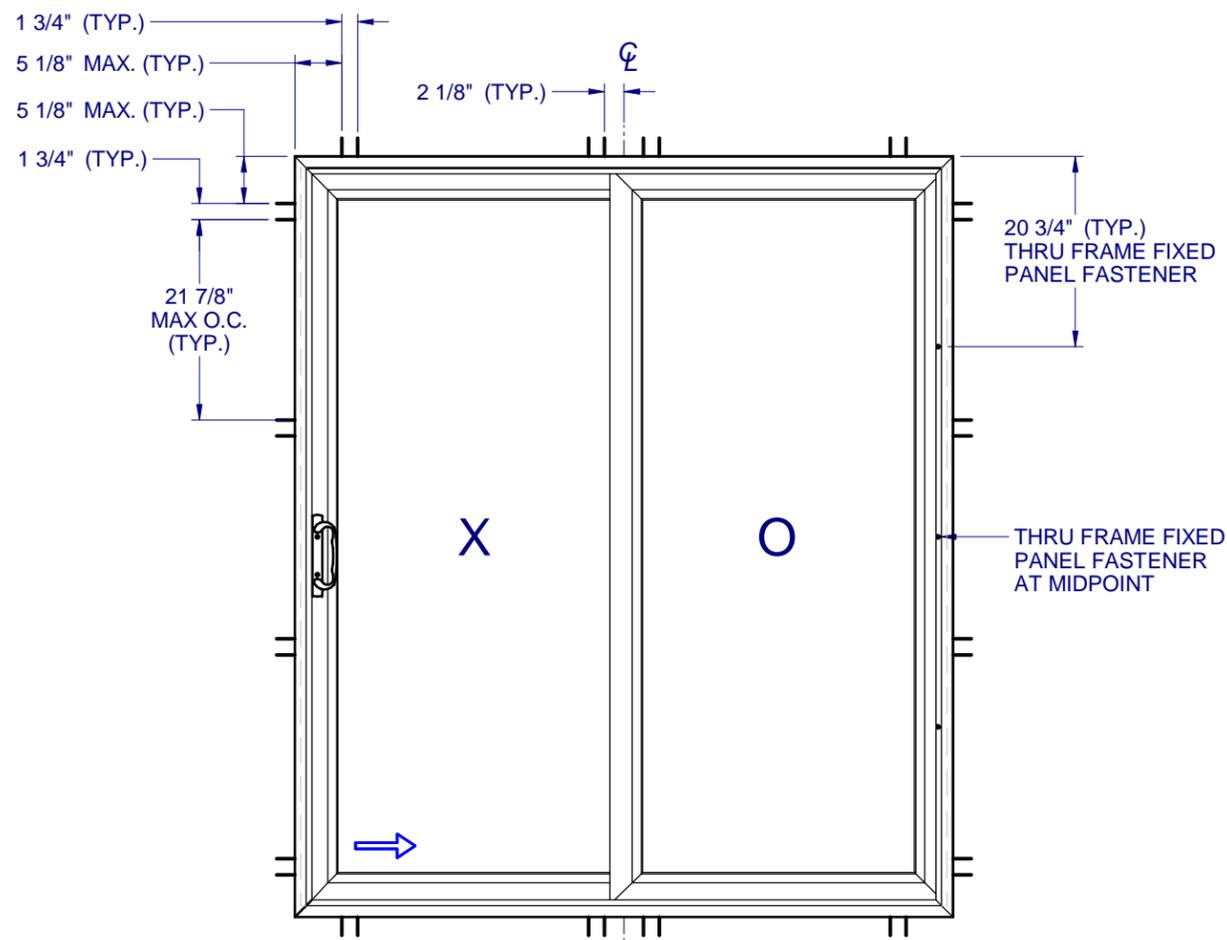
BOM AND EXTRUSIONS

| | |
|-----------|----------|
| DRAWN BY: | DATE: |
| EMK | 08/01/14 |
| DWG #: | REV.: |
| CWS-928 | C |
| SCALE: | SHEET |
| 1:2 | 3 OF 5 |

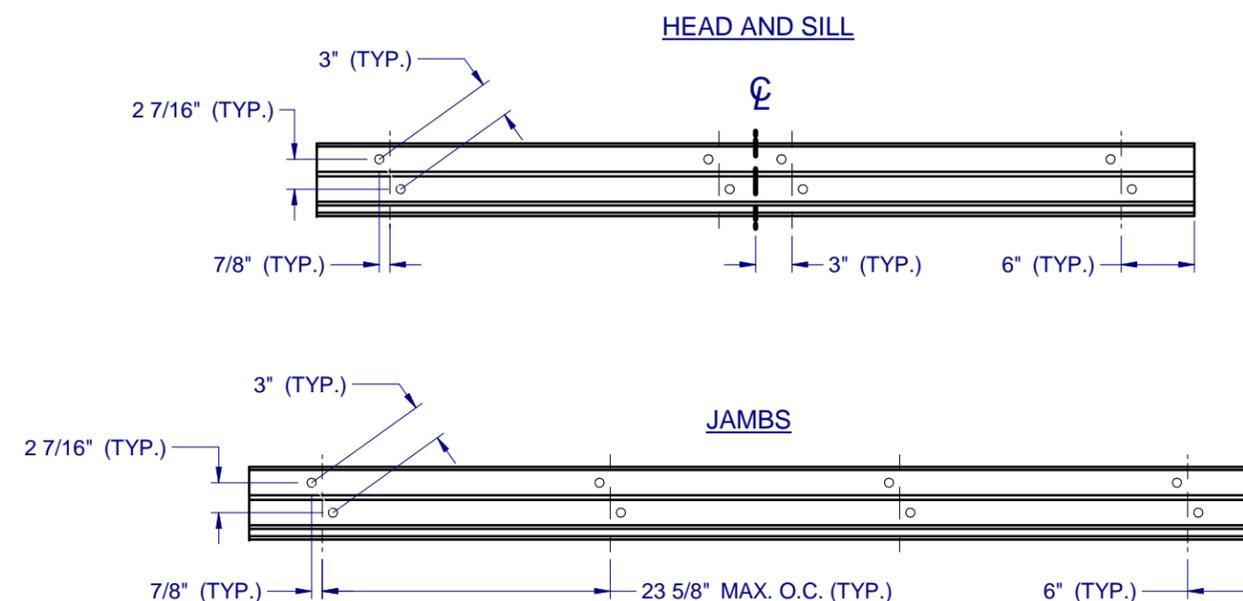
NOTE: ALL ALUMINUM EXTRUSIONS ARE 6063-T6.

ANCHOR STAGGER PATTERNS

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SLIDING GLASS
DOOR - IMPACT**



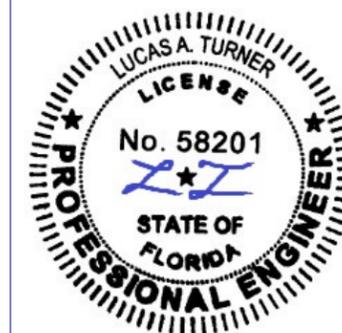
ANCHOR LAYOUT
1:20



NOTES:

1. INSTALL ONE ANCHOR AT EACH LOCATION (STAGGERED PATTERN) AS INDICATED ON THIS SHEET. SILL ANCHOR SPACING SAME AS HEAD.
2. SHIM AS REQ'D AT EACH INSTALLATION ANCHOR USING LOAD BEARING SHIMS. MAX. ALLOWABLE SHIM STACK TO BE 1/4". USE SHIMS WHERE SPACE GREATER THAN 1/16" IS PRESENT. LOAD BEARING SHIMS SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER. WOOD SHIMS ARE NOT ALLOWED.
3. ANCHOR TYPE, SIZE, SPACING AND EMBEDMENT SHALL BE AS SPECIFIED IN THESE DRAWINGS, SEE TABLE 1, SHEET 5.
4. ALL INSTALLATION ANCHORS MUST BE MADE OF OR PROTECTED WITH A CORROSION RESISTANT MATERIAL OR COATING. DISSIMILAR METALS OR MATERIALS IN CONTACT WITH PRESSURE TREATED WOOD MUST BE PROTECTED TO PREVENT REACTION.
5. INSTALLATION ANCHORS SHALL BE IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM SPECIFIED IN TABLE 1, SHEET 5.
6. ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO. FOR CONCRETE/CMU OPENINGS, EMBEDMENT SHALL BE BEYOND WOOD BUCKS, IF USED, INTO SUBSTRATE. INSTALLATIONS TO SOLID CONCRETE OR GROUT-FILLED CMU MAY INCLUDE BUT DO NOT REQUIRE 1X WOOD BUCKS BETWEEN THE PRODUCT AND THE SUBSTRATE. INSTALLATIONS TO HOLLOW CMU REQUIRE THE USE OF 1X BUCKS BETWEEN THE PRODUCT AND SUBSTRATE.
7. A MINIMUM CENTER-TO-CENTER SPACING SHALL BE MAINTAINED BETWEEN ALL FASTENERS: 3" FOR MASONRY, 1" FOR WOOD AND METAL.
8. WOOD OR MASONRY OPENINGS, BUCKS AND BUCK FASTENERS SHALL BE PROPERLY DESIGNED BY THE ARCHITECT OR ENGINEER OF RECORD AND INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE. SUBSTRATES SHALL MEET THE MINIMUM STRENGTH REQUIREMENTS AS SHOWN IN TABLE 1, SHEET 5. CONCRETE AND MASONRY SUBSTRATES MAY NOT BE CRACKED.
9. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS FOLLOWING THE CURRENT VERSION OF THE REFERENCE DOCUMENTS:
FMA/AAMA 100(FIN WINDOWS), FMA/AAMA 200(FLANGE WINDOWS), FMA/WDMA 250(BOX WINDOWS), FMA/AAMA/WDMA 300(EXTERIOR DOORS)

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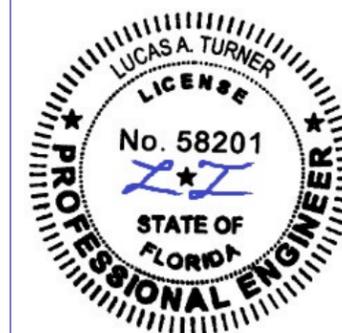
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FL PE # 58201
2428 Old Natchez Trc Trl
Camden, TN 38320
PH. 941-380-1574

SHEET DESCRIPTION:
ANCHOR SCHEDULE AND NOTES

| | |
|--------------------------|--------------------------|
| DRAWN BY: EMK | DATE: 08/01/14 |
| DWG #: CWS-928 | REV.: C |
| SCALE: 1:15 | SHEET 4 OF 5 |

**8900 PVC
SLIDING GLASS
DOOR - IMPACT**

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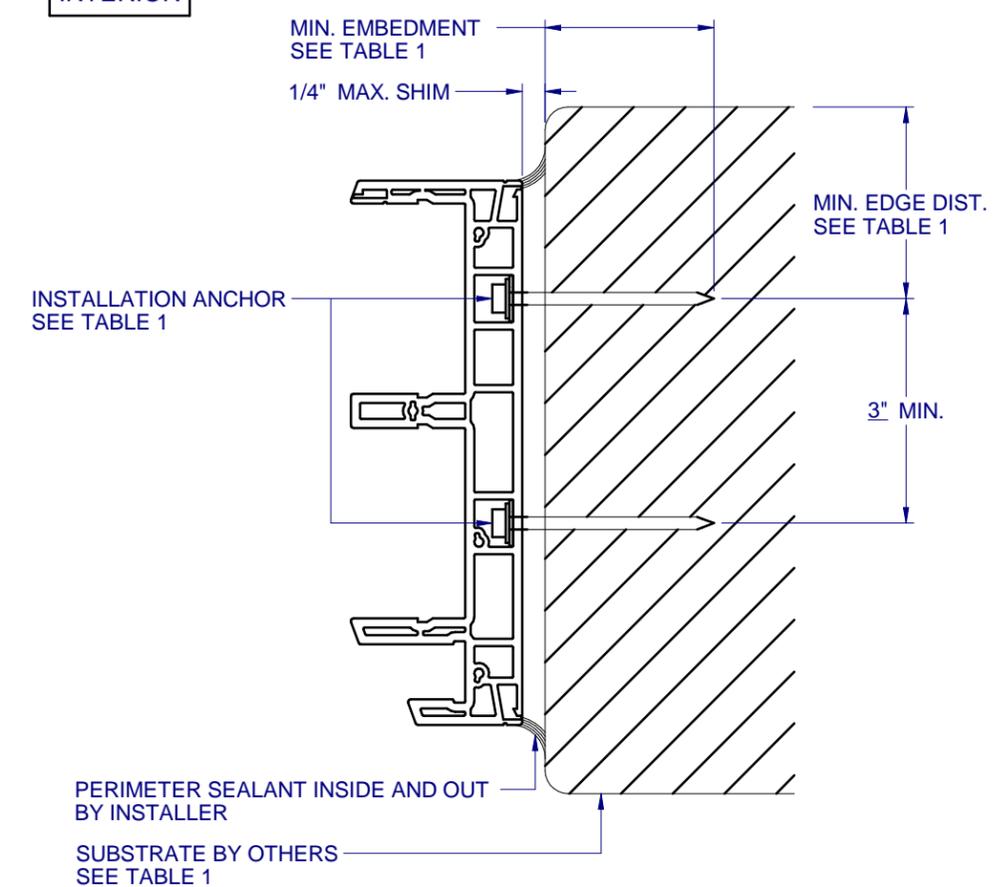
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FL PE # 58201
2428 Old Natchez Trc Trl
Camden, TN 38320
PH. 941-380-1574

SHEET DESCRIPTION:

INSTALLATION DETAILS

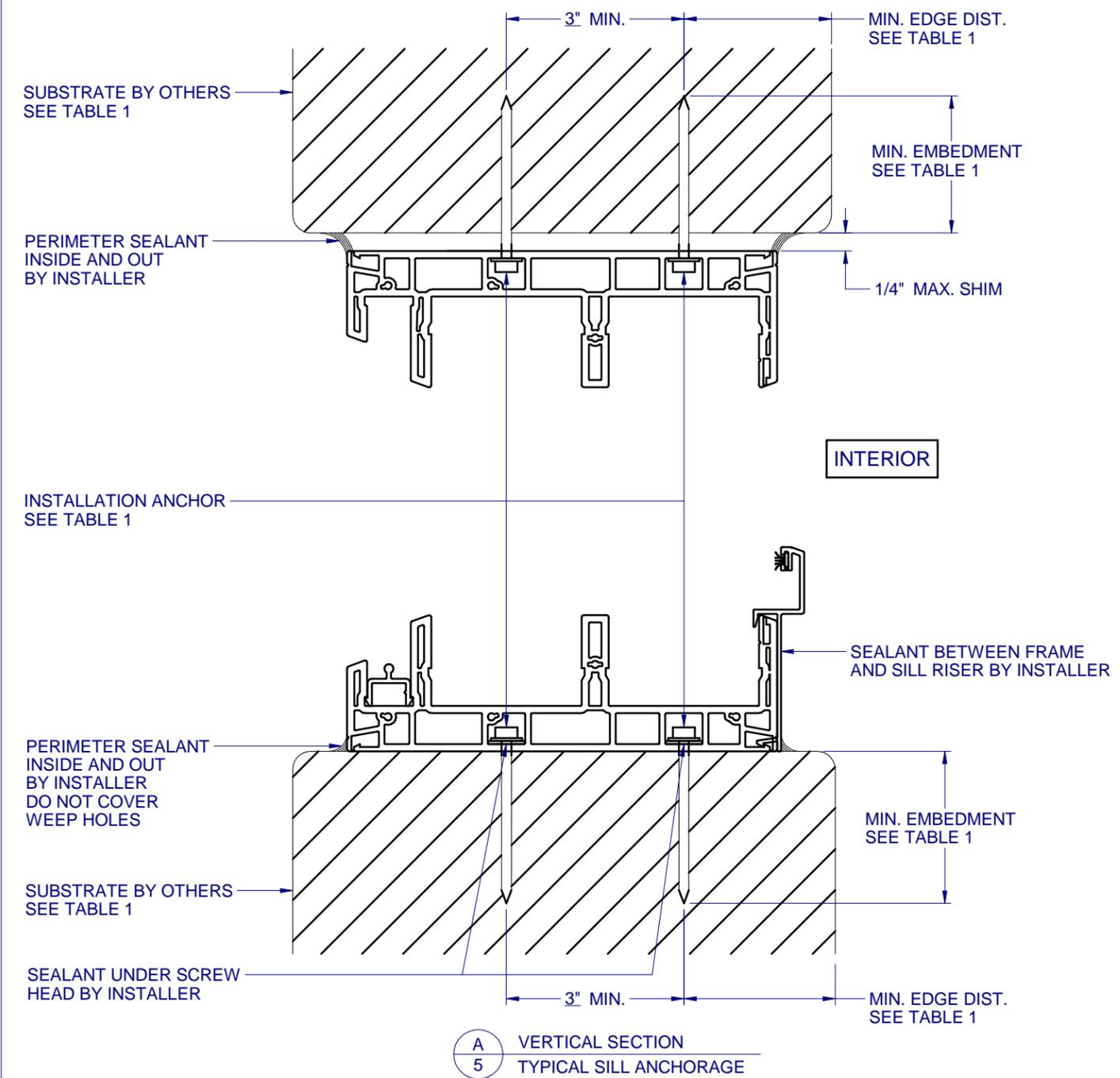
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| DRAWN BY: | DATE: |
| EMK | 08/01/14 |
| DWG #: | REV.: |
| CWS-928 | C |
| SCALE: | SHEET |
| 1:2 | 5 OF 5 |

INTERIOR



B
5 HORIZONTAL SECTION
TYPICAL JAMB ANCHORAGE

TYPICAL HEAD ANCHORAGE



A
5 VERTICAL SECTION
TYPICAL SILL ANCHORAGE

TABLE 1: APPROVED INSTALLATION FASTENERS

| SUBSTRATE TYPE | ANCHOR TYPE | MIN. EMBEDMENT | MIN. EDGE DIST. |
|--|---|----------------------------|-----------------|
| CONCRETE (2.0 KSI MIN.) | 3/16" ITW TAPCON | 1-1/2" | 1-1/8" |
| HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.) | 3/16" ITW TAPCON | 1" | 2" |
| CONCRETE (2.85 KSI MIN.) | 3/16" ELCO ULTRACON | 1" | 1" |
| GROUT-FILLED CMU (ASTM C-90) | 3/16" ELCO ULTRACON | 1-1/4" | 2-1/2" |
| 2X MIN. SOUTHERN PINE (G=0.55) | 3/16" ITW TAPCON OR ELCO ULTRACON | 1-3/8" | 7/8" |
| 2X MIN. SOUTHERN PINE (G=0.55) | #10 WOOD SCREW | 1-3/8" | 7/8" |
| 16 GAUGE (0.060") MIN. STEEL STUD (33 KSI YIELD MIN) | #10-16 HILTI KWIK-FLEX OR ITW TEKS SELF-DRILLING SCREW | FULL THREAD THRU 0.060" | 7/16" |
| 1/8" ALUM. (6063-T5 MIN.) OR 1/8" STEEL (33 KSI MIN.) | #10 GRADE 5 SELF-TAPPING / DRILLING SCREW | FULL THREAD THRU 0.125" | 7/16" |