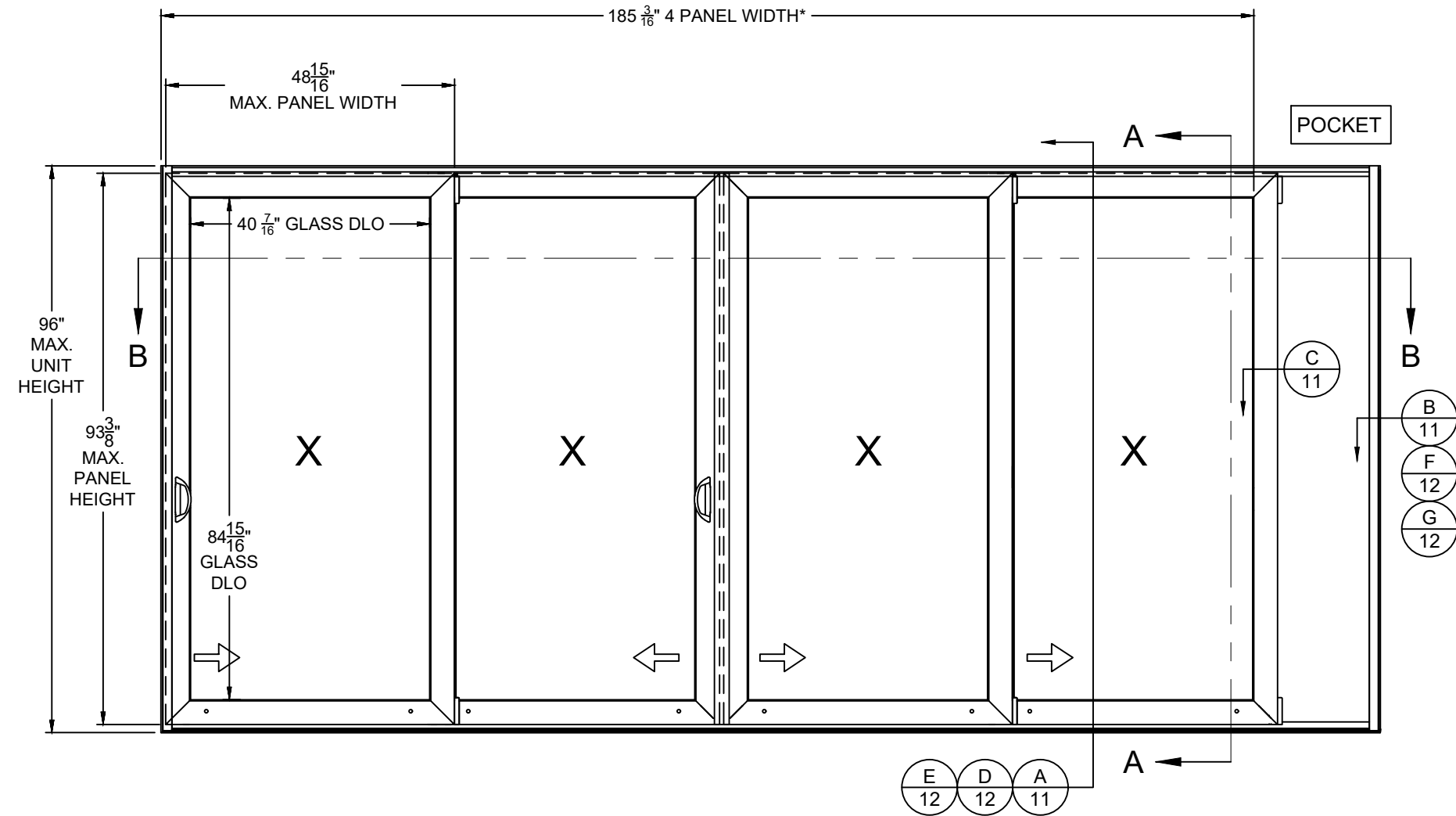


SLIDING GLASS DOOR - LARGE MISSILE IMPACT



- 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 USE IN THE HIGH VELOCITY HURRICANE ZONE (HVHZ) AND IS RATED FOR WIND ZONE 4 MISSILE LEVEL D IMPACT USE AS DEFINED IN ASTM E 1996 PER THE FBC.
  2. GLAZING OPTIONS: (SEE SHEET 3)
  3. APPROVED CONFIGURATIONS INCLUDE BUT ARE NOT LIMITED TO:  
 "XO", "OX", "XX", "OXO", "XXX", "OXXO", "XXXX", "PX", "PXX", "PXXX", "PXXX", "PXXP", "PXXXXP", "PXXXXXXP", "PXXXXXXXP"  
 2 TRACK, 3 TRACK, 4 TRACK
  4. DESIGN PRESSURE RATING:  
 -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 SHEETS 10-11 FOR ANCHOR DETAILS. WINDLOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
  6. PRODUCT APPROVED FOR IMPACT USE. SHUTTERS ARE NOT REQUIRED.
  7. ALL FRAMES ARE PROCESSED AND SCREWED TOGETHER. VENTS ARE PROCESSED AND THERMAL WELDED TOGETHER.
  8. SERIES / MODEL DESIGNATION SGD-8800.
  9. THE DESIGNATION X AND O STAND FOR THE FOLLOWING:  
 X = OPERABLE SASH, O = FIXED SASH, P = POCKET/HOOKSTRIP
  10. SECTION CALLOUTS APPLY TO ALL CONFIGURATIONS IN A SIMILAR LOCATION.
  11. WEEP SLOTS = 1/2" x 1" LOCATED @ BOTH ENDS.

1900 SW 44TH AVE.  
OCALA, FLORIDA 34474  
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**8800 PVC  
SLIDING GLASS  
DOOR - IMPACT**

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8/6/2020

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: | DATE:    |
| BLZ       | 05/06/16 |
| DWG #:    | REV.:    |
| CWS-1150  | B        |
| SCALE:    | SHEET    |
| 1:30      | 1 OF 11  |

TABLE OF CONTENTS

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TRACK WIDTHS.....6

ANCHOR SCHEDULE & NOTES.....7

ANCHOR PATTERNS.....8-9

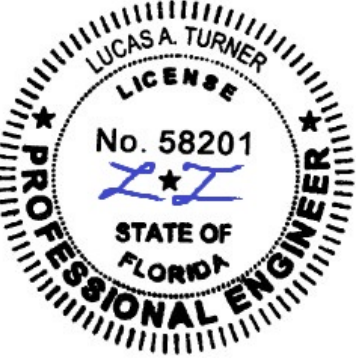
INSTALLATION DETAILS.....10-11

| MAX. PANEL SIZE     | DESIGN PRESSURE RATING | GLASS TYPE (SEE SHT 4) | IMPACT RATING        |
|---------------------|------------------------|------------------------|----------------------|
| 48-15/16" x 93-3/8" | +/-50 PSF              | A                      | LARGE MISSILE IMPACT |
|                     | +/-65 PSF              | B                      |                      |

\*(4) PANELS SHOWN; HVHZ LIMITED TO MAX. (9) PANELS. OUTSIDE HVHZ, UNLIMITED NUMBER OF PANELS IS ALLOWABLE AS LONG AS INDIVIDUAL PANELS DO NOT EXCEED PANEL SIZE AS SHOWN.

8800 PVC  
SLIDING GLASS  
DOOR - IMPACT

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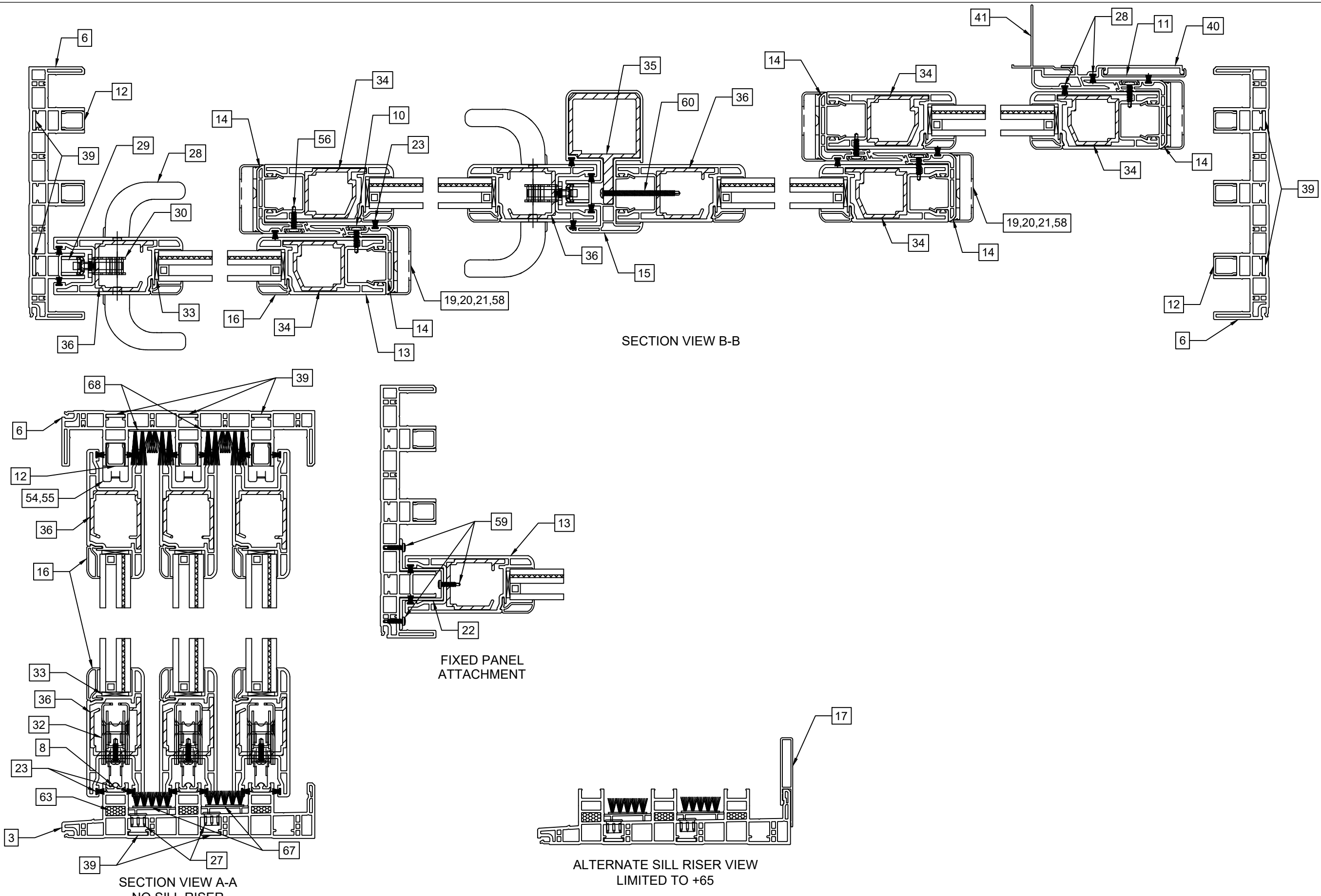
8/6/2020

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

SHEET DESCRIPTION:

SECTION VIEWS

|           |          |
|-----------|----------|
| DRAWN BY: | DATE:    |
| BLZ       | 05/06/16 |
| DWG #:    | REV.:    |
| CWS-1150  | B        |
| SCALE:    | SHEET    |
| 1:3       | 2 OF 11  |

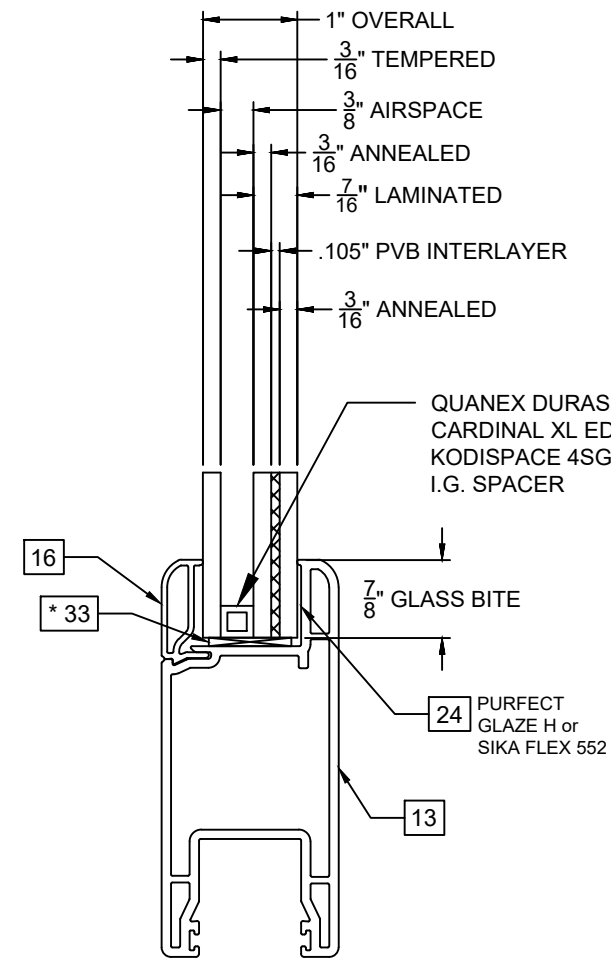


ITEMS NOT SHOWN FOR CLARITY:  
20, 24-26, 31, 55-58, 61-62, 64-66

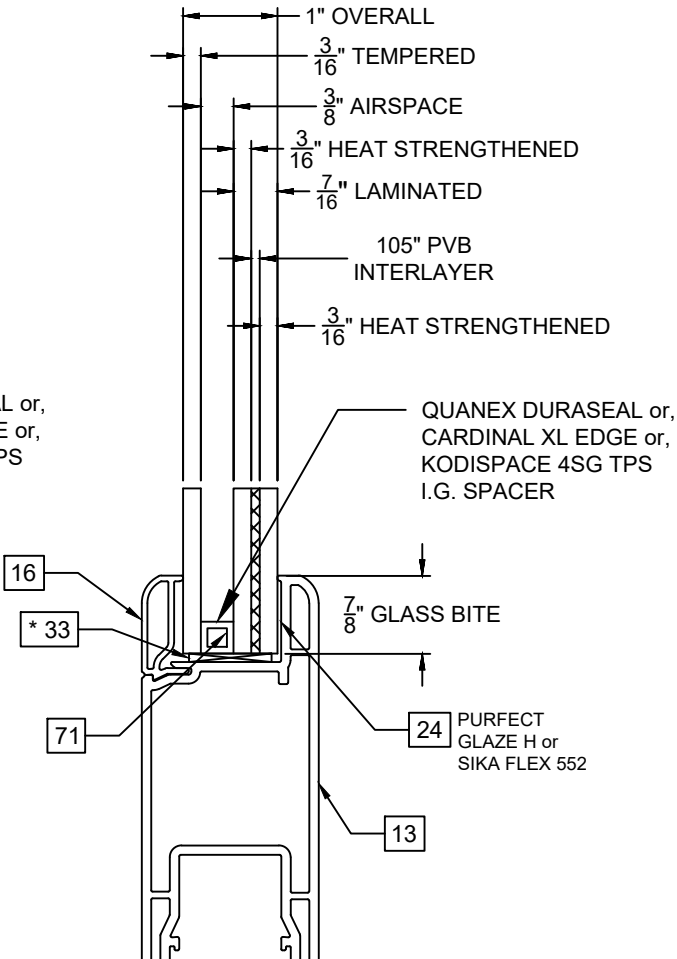
NOTES:  
1) INSTALLATION W/NO SILL RISER ALLOWED TO THE FULL DP'S INDICATED ABOVE, IN LOCATIONS WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED, SUCH AS BUT NOT LIMITED TO LOCATIONS WHERE AN OVER HANG IS PRESENT THAT IS AS WIDE AS THE WALL IS TALL.

| PARTS LIST |        |                                                    |          |
|------------|--------|----------------------------------------------------|----------|
| ITEM       | PART # | DESCRIPTION                                        | MATERIAL |
| 1          | GLASS  | SEE THIS SHEET                                     |          |
| 2          | H-6161 | 2-Track Sill                                       | PVC      |
| 3          | H-6163 | 3-Track Sill                                       | PVC      |
| 4          | H-6165 | 4-Track Sill                                       | PVC      |
| 5          | H-6160 | 2-Track Head/Jamb                                  | PVC      |
| 6          | H-6162 | 3-Track Head/Jamb                                  | PVC      |
| 7          | H-6164 | 4-Track Head/Jamb                                  | PVC      |
| 8          | S-2064 | Roller Track Insert                                | Aluminum |
| 9          | S-6171 | Cover, Sill Track                                  | PVC      |
| 10         | S-6169 | Cover, Interlock                                   | PVC      |
| 11         | S-6172 | Cover, External Reinforcement/P-Hook               | PVC      |
| 12         | S-6175 | Track Filler, Frame                                | PVC      |
| 13         | H-6166 | Panel Stile/Rail                                   | PVC      |
| 14         | H-6168 | Interlock, Snap-On                                 | PVC      |
| 15         | H-6167 | Astragal                                           | PVC      |
| 16         | H-6170 | Glazing Bead, I.G., 1"                             | PVC      |
| 17         | H-2060 | Sill Riser, 2.875"                                 | Aluminum |
| 18         | H-2062 | Sill Riser, 4.062"                                 | Aluminum |
| 19         | P-5517 | Panel Guide, Interlock                             | Aluminum |
| 20         | P-5558 | Support Channel, Bot Rail, Interlock               | Aluminum |
| 21         | P-5511 | Cover, Panel Guide, Interlock                      | Nylon    |
| 22         | P-5516 | Bracket, Fixed Panel                               | Aluminum |
| 23         | P-3300 | Wtsp., 0.280" x 0.187" Back, Fin, Black            |          |
| 24         | P-3438 | Backbedding, Purfect Glaze "H" Hot Melt            | Silicone |
| 25         | P-3514 | Screw, #10 x 2" Ph Comb Hd                         | Steel    |
| 26         | P-3587 | Screw, #8 x 1" PH FL TEK - Roller Asm/Mortise Lock | Steel    |
| 27         | P-5588 | Hole Plug, 0.500" Dia.                             | Nylon    |
| 28         | P-5536 | Handle Set with Thumb Turn                         |          |
| 29         | P-3792 | Keeper                                             |          |
| 30         | P-3793 | Multi-Point Mortise Lock                           |          |
| 31         | P-4250 | Screw, #10 x 2.5" PH PN SMS - Keeper               | Steel    |
| 32         | P-5287 | Tandem Roller Assy, 2.125" Dia Wheel               |          |
| 33         | P-5438 | Setting Blocks, 0.090" x 0.875" x 1.5"             | Rubber   |
| 34         | H-1769 | Reinforcement, Interlock                           | Aluminum |
| 35         | H-2068 | Reinforcement, Astragal                            | Aluminum |
| 36         | S-1775 | Reinforcement, Lock Stile/Rails                    | Aluminum |
| 37         | H-2111 | Reinforcement, HD, Interlock                       | Aluminum |
| 38         | S-2071 | Reinforcement, External, Interlock                 | Aluminum |
| 39         | S-2069 | Frame Insert, Installation Anchors                 | Aluminum |
| 40         | H-2063 | P-Hook                                             | Aluminum |
| 41         | S-2065 | P-Hook Adaptor                                     | Aluminum |
| 42         | S-2136 | Screen, Astragal                                   | Aluminum |
| 43         | H-2135 | Screen, 1-Track Head/Jamb                          | Aluminum |
| 45         | S-2134 | Screen, 1-Track Sill                               | Aluminum |
| 46         | S-2053 | Screen, 2-Track Head                               | Aluminum |
| 47         | S-2054 | Screen, 2-Track Jamb                               | Aluminum |
| 48         | S-2055 | Screen, 2-Track Sill                               | Aluminum |
| 49         | S-2056 | Screen, 3-Track Head                               | Aluminum |
| 50         | S-2057 | Screen, 3-Track Jamb                               | Aluminum |

| ITEM | PART # | DESCRIPTION                                 | MATERIAL |
|------|--------|---------------------------------------------|----------|
| 51   | S-2058 | Screen, 3-Track Sill                        | Aluminum |
| 52   | S-2059 | Screen, Snap Cover                          | Aluminum |
| 53   | S-2070 | Screen, Interlock                           | Aluminum |
| 54   | P-5477 | Block, Anti-Lift                            | Nylon    |
| 55   | P-5559 | Screw, #14 x 4" PH PN SMS                   | Steel    |
| 56   | P-4269 | Screw, #8 x 1" PH PN Tek                    | Steel    |
| 57   | P-3556 | Screw, #8 x 2.5" PH FL Tek                  | Steel    |
| 58   | P-4962 | Screw, #8 x 3" PH FL Tek                    | Steel    |
| 59   |        | Screw, #12 x 1 1/2" PH PN SMS               | Steel    |
| 60   | P-3609 | Bumper, Panel Stop                          | Rubber   |
| 61   | P-4291 | Panel Stop Housing                          | Nylon    |
| 62   | P-5479 | Foam Block, Open Cell, 0.844" x 0.531" x 1" |          |
| 63   | P-5492 | Gasket, Frame Assembly, 2-Track             | Butyl    |
| 64   | P-5493 | Gasket, Frame Assembly, 3-Track             | Butyl    |
| 65   | P-5494 | Gasket, Frame Assembly, 4-Track             | Butyl    |
| 66   | P-4659 | Dust Plug, 1-1/4" x 3" x 0.5"               |          |
| 67   | P-4366 | Dust Plug, 1" x 3" x 1"                     |          |
| 68   |        | Screen, Spline                              | Rubber   |
| 69   |        | Screen, Cloth                               |          |



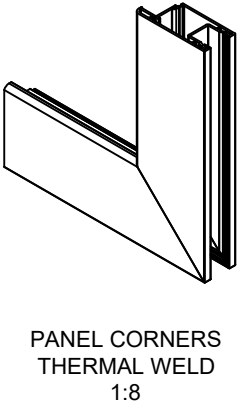
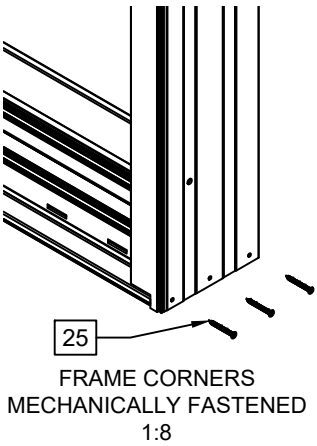
GLASS TYPE A



GLASS TYPE B

\* SETTING BLOCKS PER FBC 2411.3.3.1

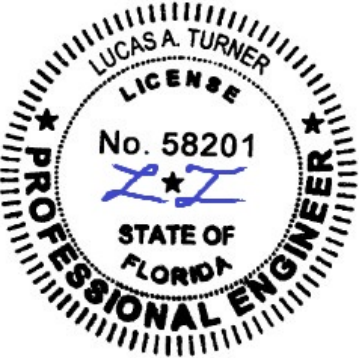
| GLASS TYPE | DESIGN PRESSURE RATING |
|------------|------------------------|
| A          | +/-50 PSF              |
| B          | +/-65 PSF              |



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**8800 PVC  
SLIDING GLASS  
DOOR - IMPACT**

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

SHEET DESCRIPTION:

**BOM AND GLAZING  
DETAIL**

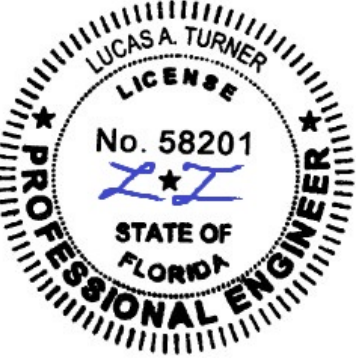
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**8800 PVC  
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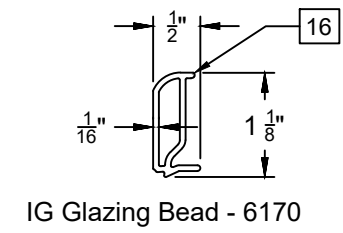
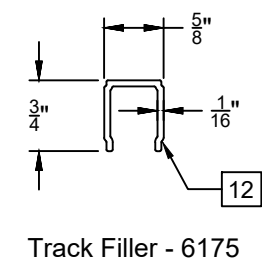
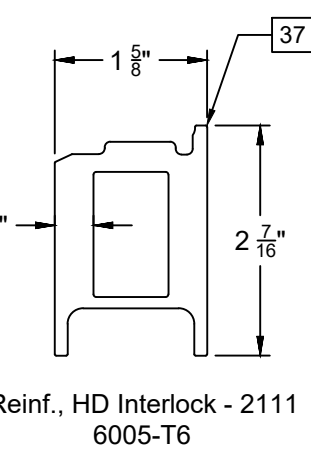
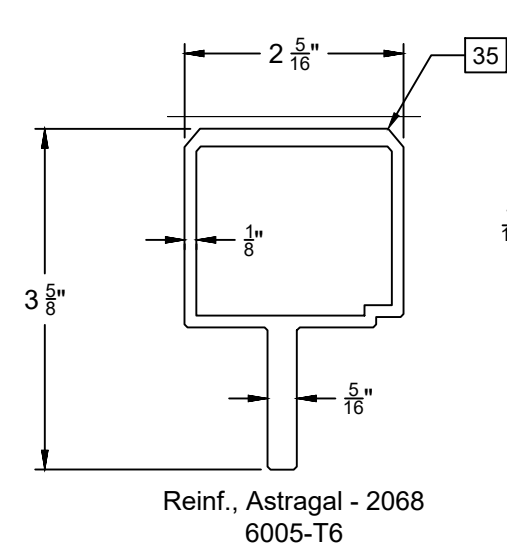
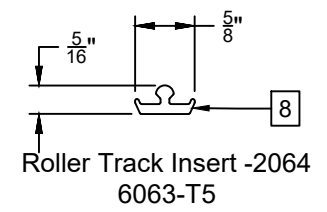
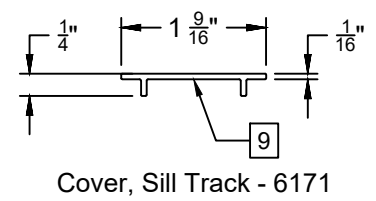
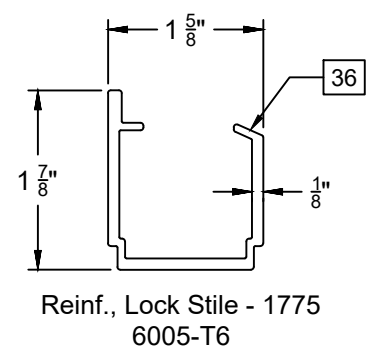
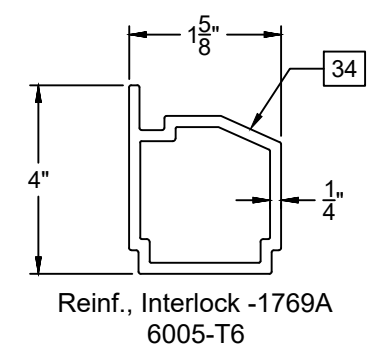
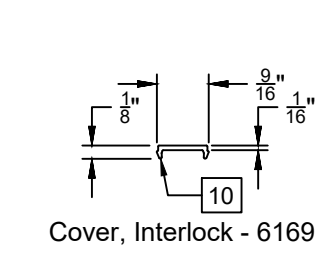
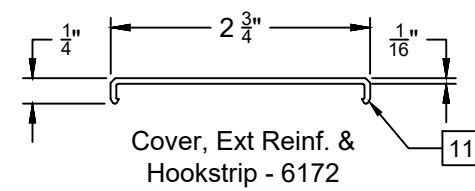
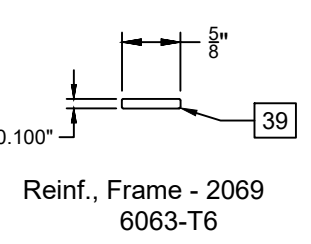
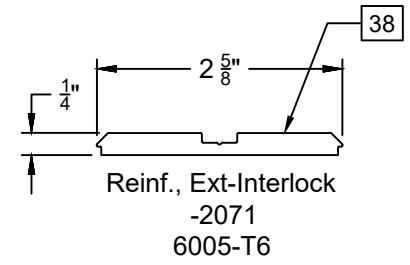
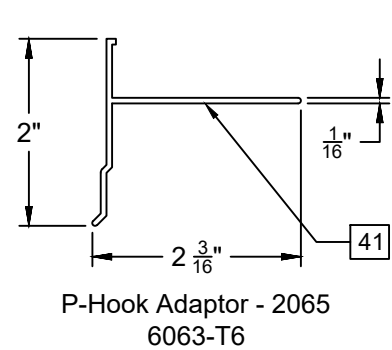
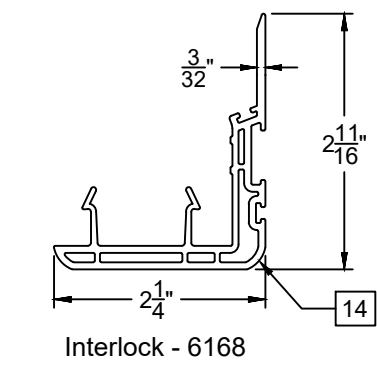
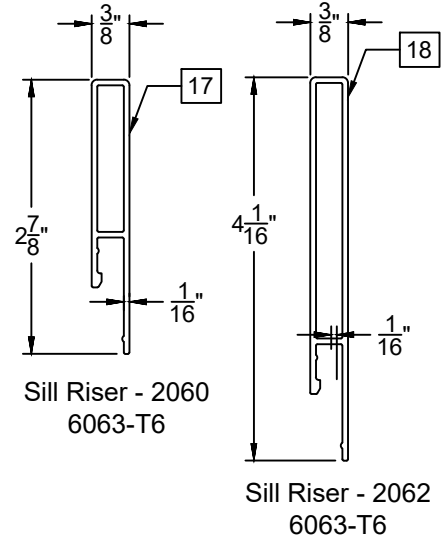
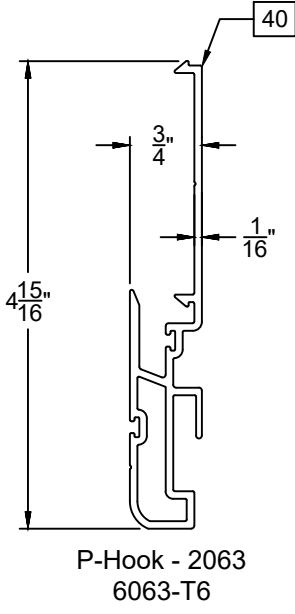
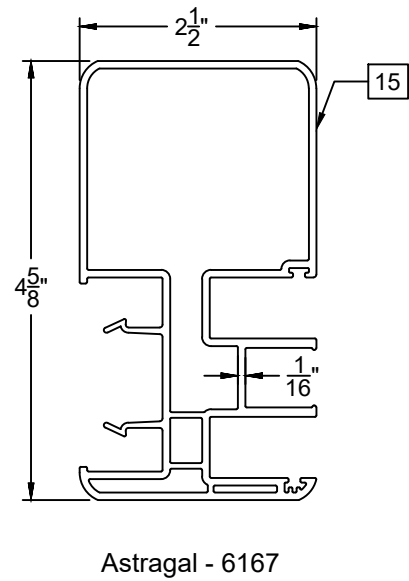
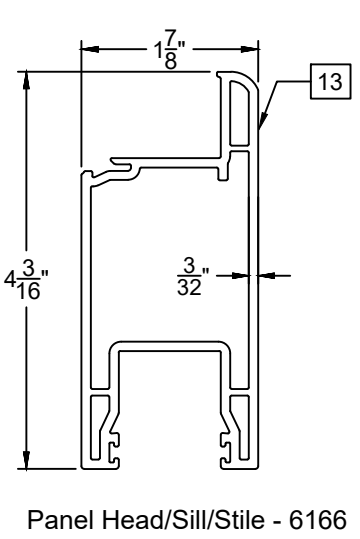
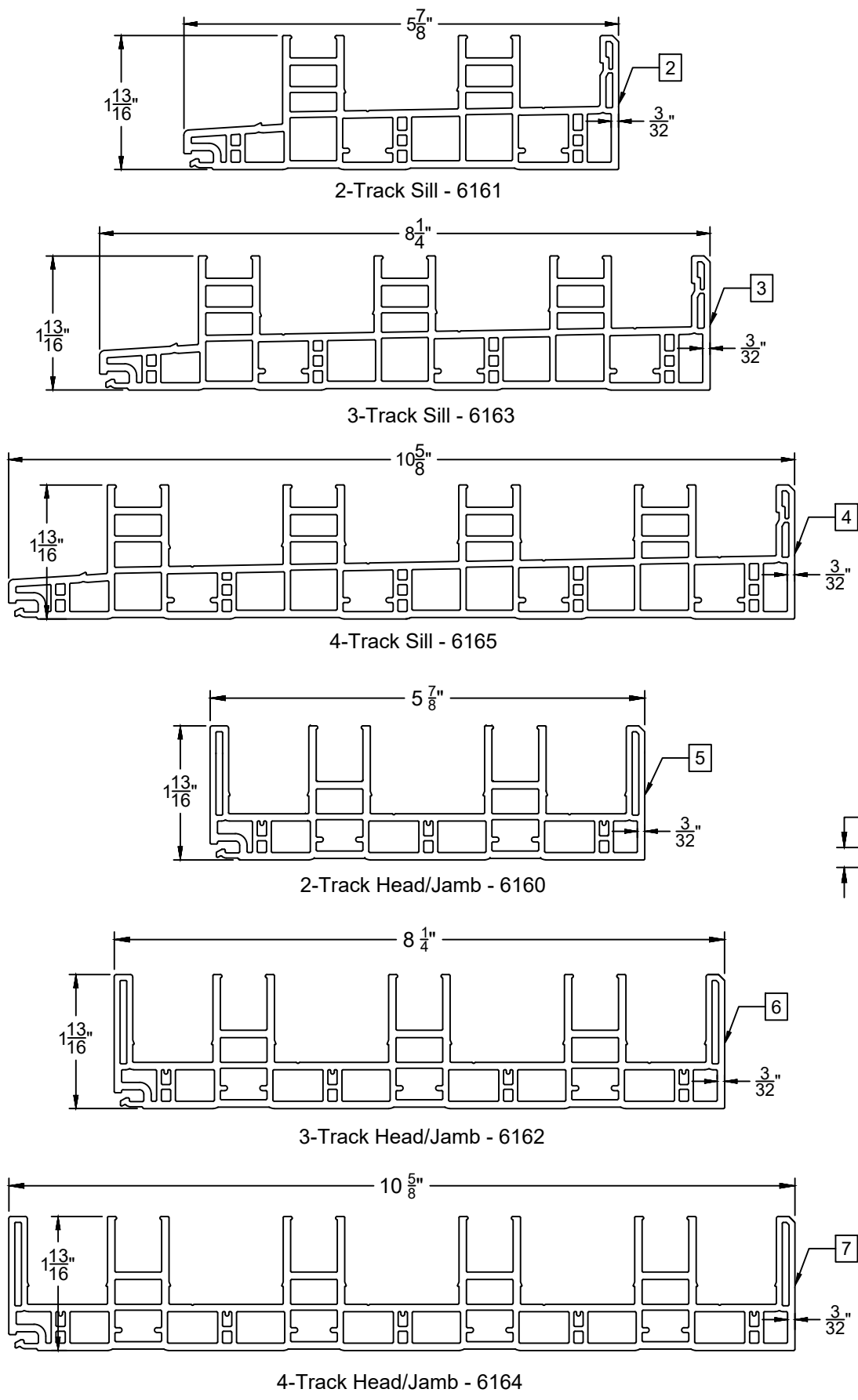
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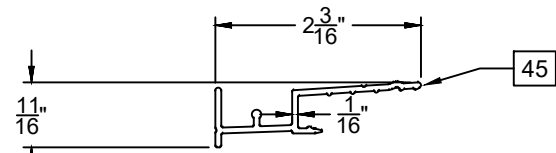
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**EXTRUSIONS**

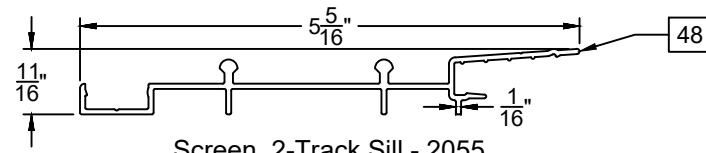
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| 1:2       | 4 OF 11  |



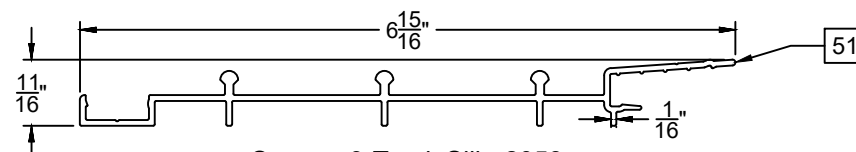
NOTE: ALL EXTRUSIONS ARE RIGID PVC UNLESS OTHERWISE NOTED.



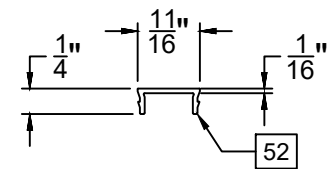
Screen, 1-Track Sill - 2134



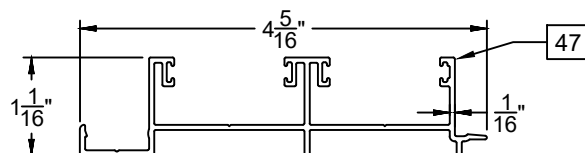
Screen, 2-Track Sill - 2055



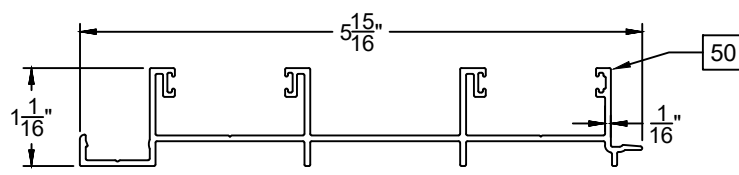
Screen, 3-Track Sill - 2058



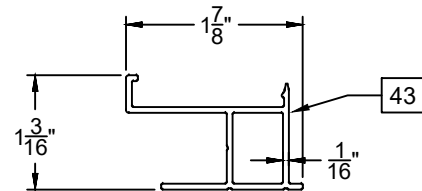
Screen, Snap Cover - 2059



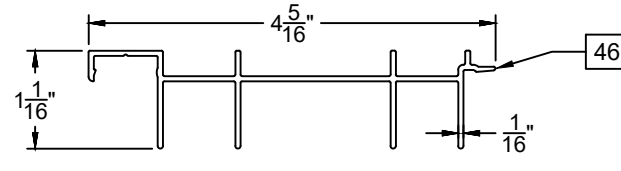
Screen, 2-Track Jamb - 2054



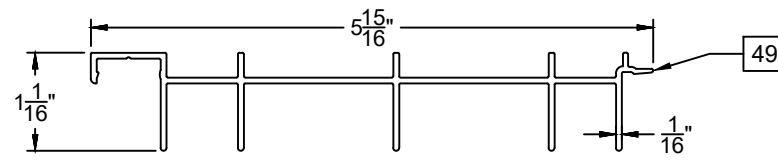
Screen, 3-Track Jamb - 2057



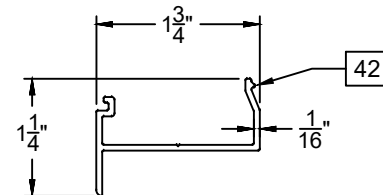
Screen, 1-Track Head/Jamb - 2135



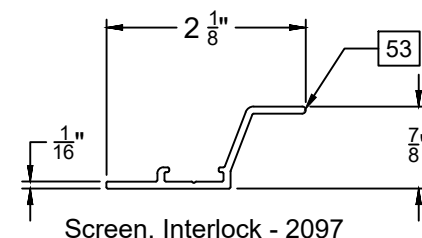
Screen, 2-Track Head - 2053



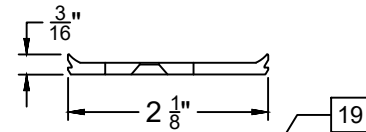
Screen, 3-Track Head - 2056



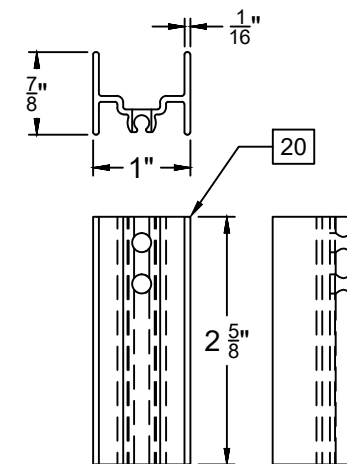
Screen, Astragal - 2136



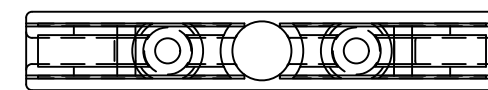
Screen, Interlock - 2097



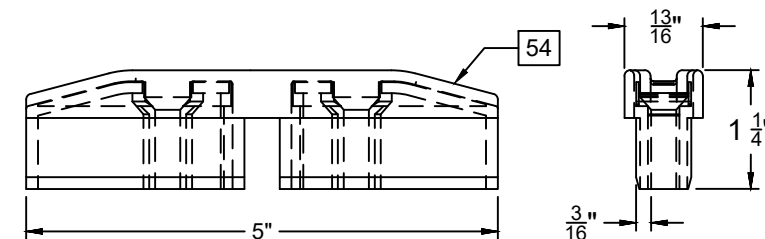
Panel Guide, Interlock - P-5517



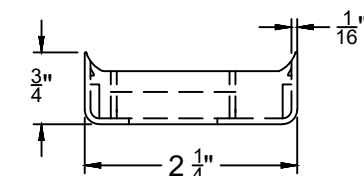
Support Channel, Bot  
Rail - Interlock - P-5558



Bracket, Fixed Panel  
P-5516



Block, Anti-Lift  
P-5477, Nylon



Cover, Interlock - Reinf.  
P-5511, Nylon

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DOOR - IMPACT**

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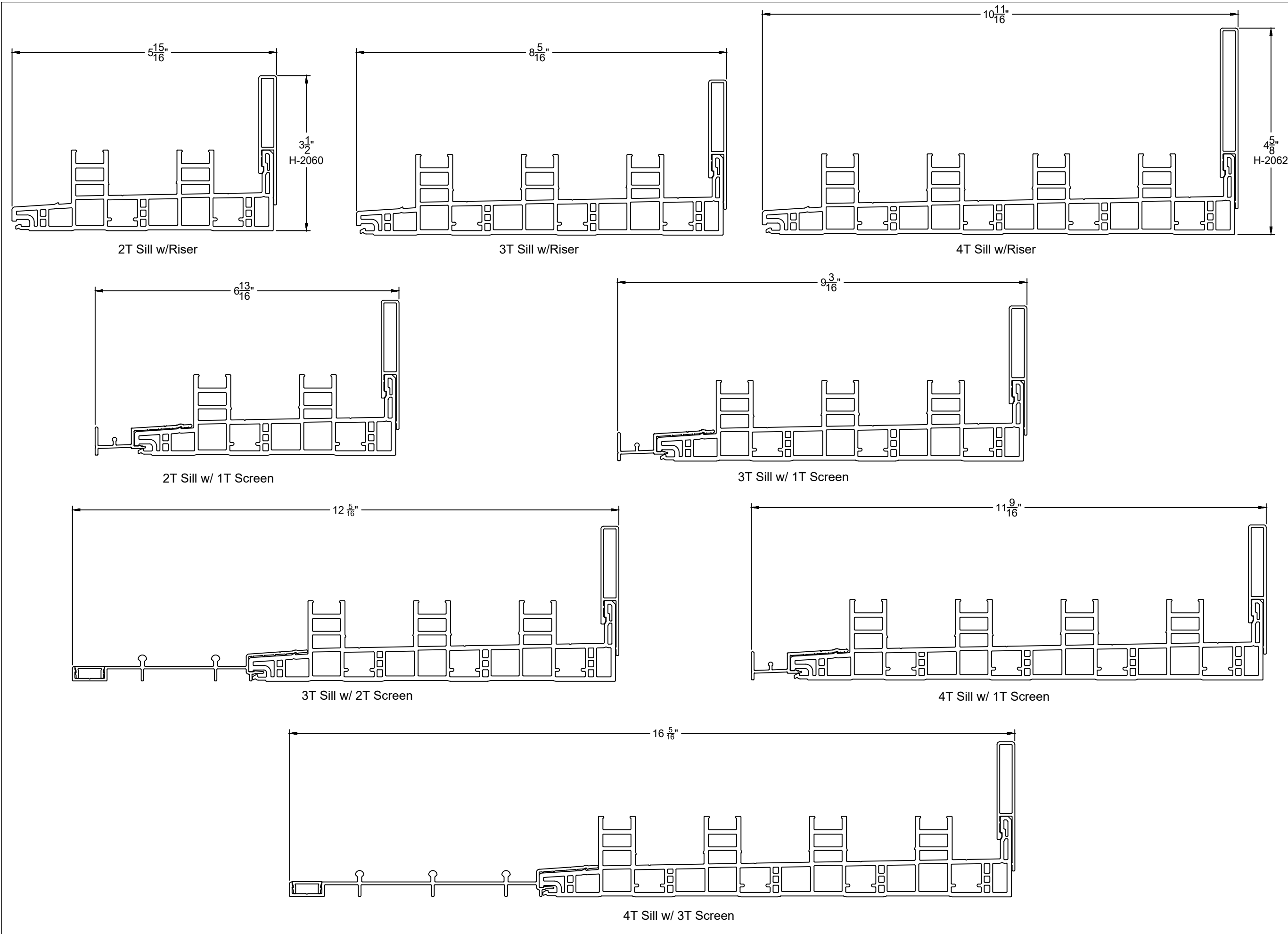
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FL PE # 58201  
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SHEET DESCRIPTION:

**EXTRUSIONS**

|           |            |
|-----------|------------|
| DRAWN BY: | DATE:      |
| BLZ       | 05/06/2016 |
| DWG #:    | REV.:      |
| CWS-1150  | B          |
| SCALE:    | SHEET      |
| 1:2       | 5 OF 11    |

NOTE: ALL ALUMINUM EXTRUSIONS ARE 6063-T6 UNLESS OTHERWISE NOTED.



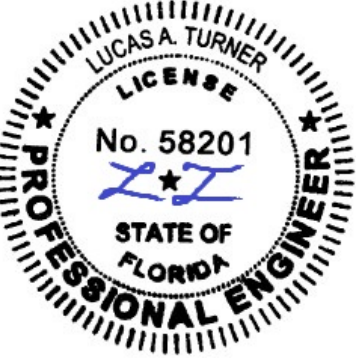


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DOOR - IMPACT**

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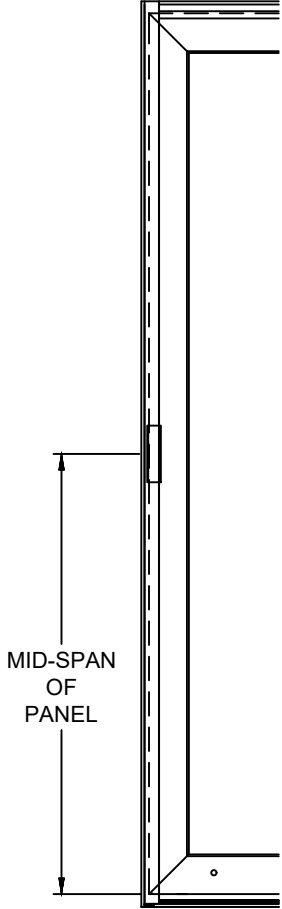
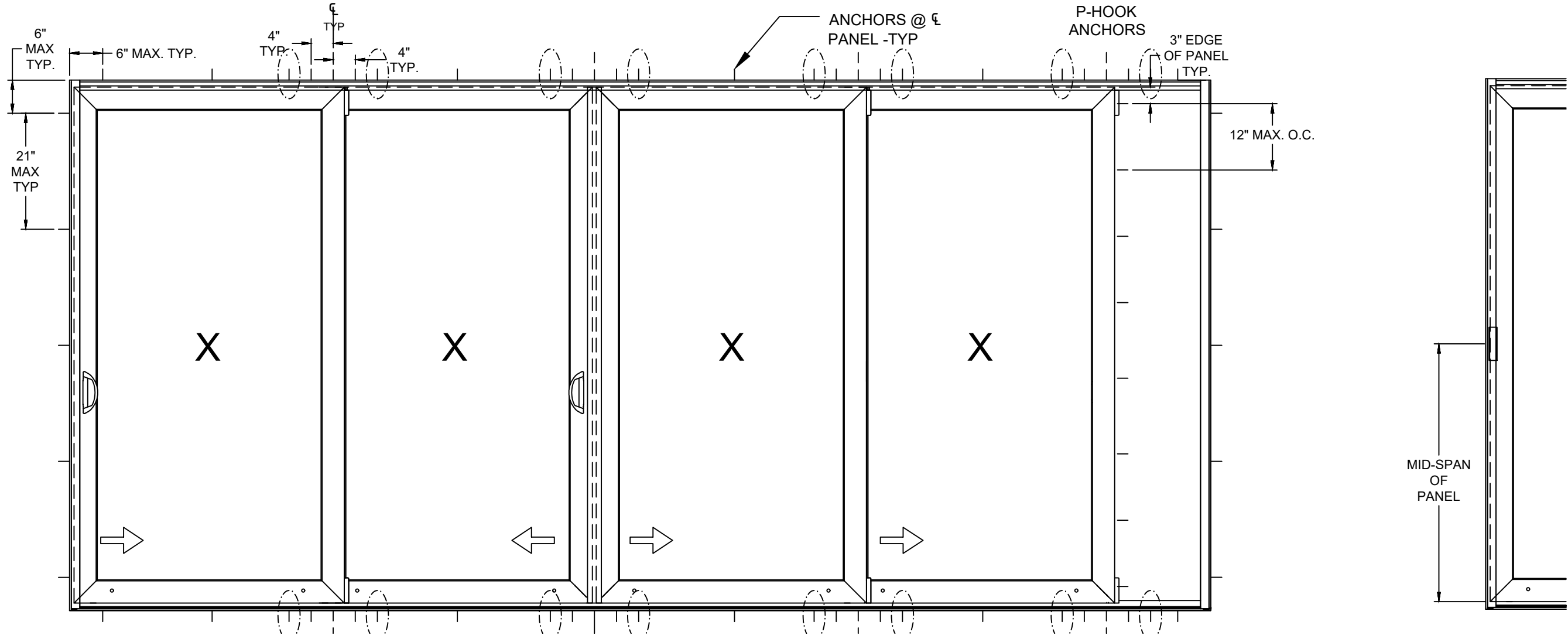
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FL PE # 58201  
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SHEET DESCRIPTION:

TRACK WIDTHS

|           |          |
|-----------|----------|
| DRAWN BY: | DATE:    |
| BLZ       | 05/06/16 |
| DWG #:    | REV.:    |
| CWS-1150  | B        |
| SCALE:    | SHEET    |
| 1:2       | 6 OF 11  |



NOTES:

\* CIRCLED ANCHOR LOCATIONS REQ'D ONLY IN WOOD INSTALLATIONS. (SEE NEXT SHEET FOR DETAIL)

- 1. INSTALL TWO ANCHORS AT EACH INSTALLATION LOCATION (SEE LAYOUT DETAILS ON SHEETS 8 & 9) EXCEPT FOR 2T SILL & WOOD INSTALLATION LOCATIONS. SEE SPECIAL LOCATIONS AND SPACING FOR 2T SILL (SHEET 8). INSTALL ONE ANCHOR AT EACH WOOD INSTALLATION LOCATION (CIRCLED). SILL ANCHOR SPACING SAME AS HEAD FOR 3T AND 4T. INSTALL ONE ANCHOR AT EACH LOCATION IN HOOKSTRIP.
- 2. SHIM AS REQ 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 10.
- 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 10.
- 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 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 SOLID CONCRETE, 6" FOR CMU 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 TABLE1, SHEET 10. 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)

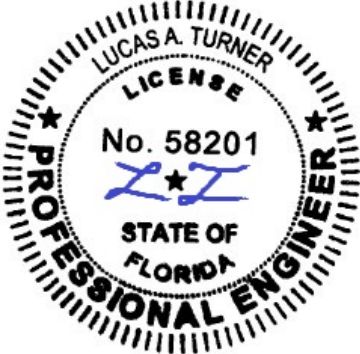
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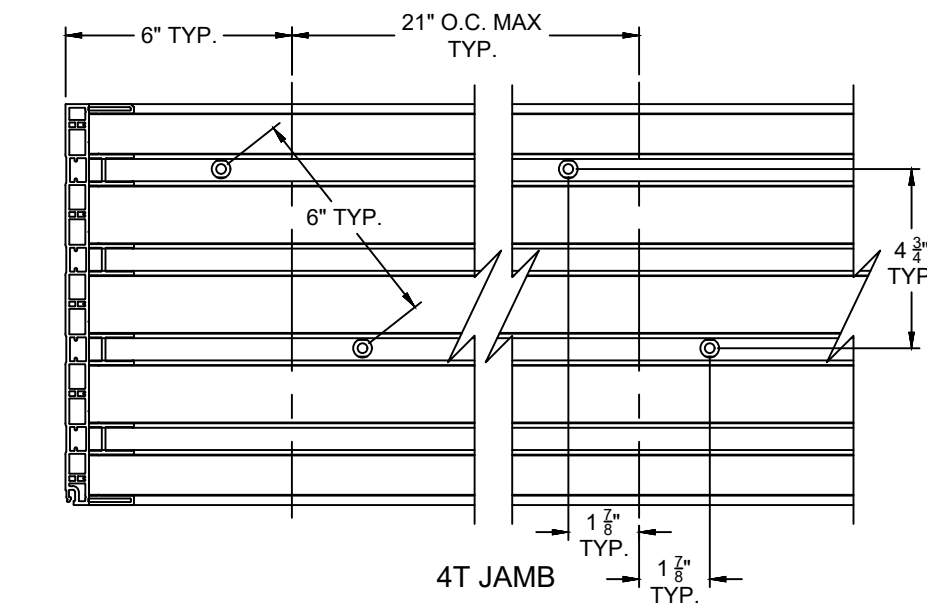
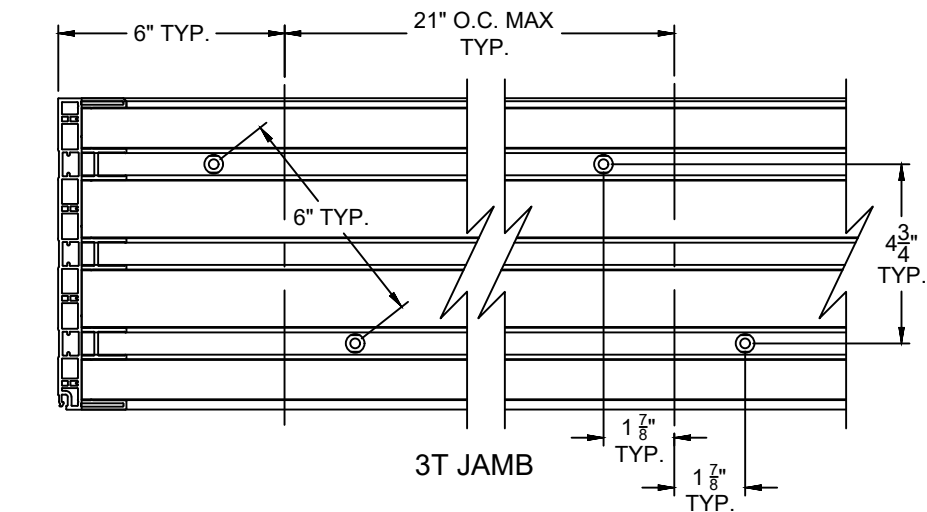
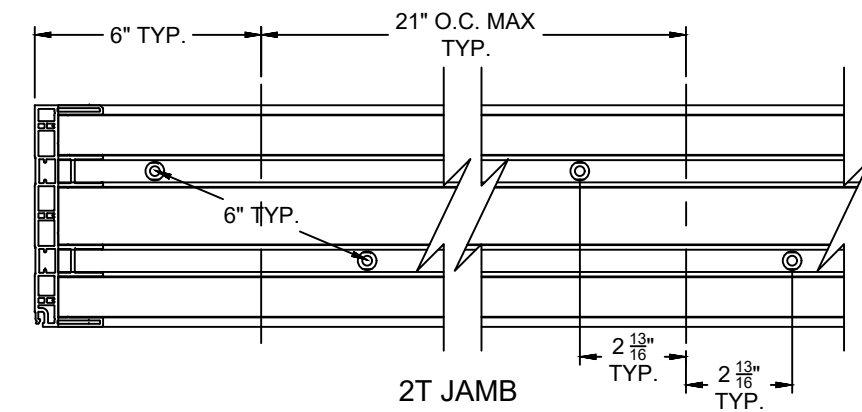
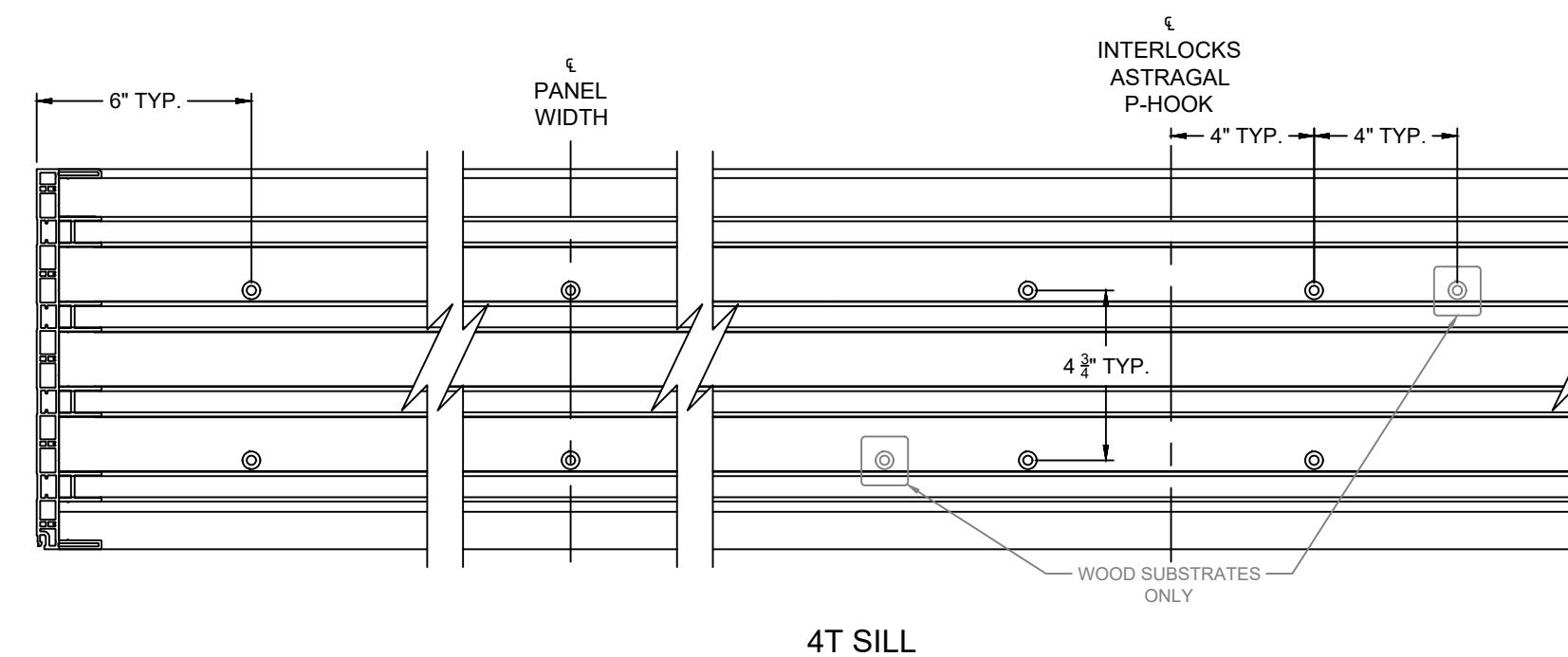
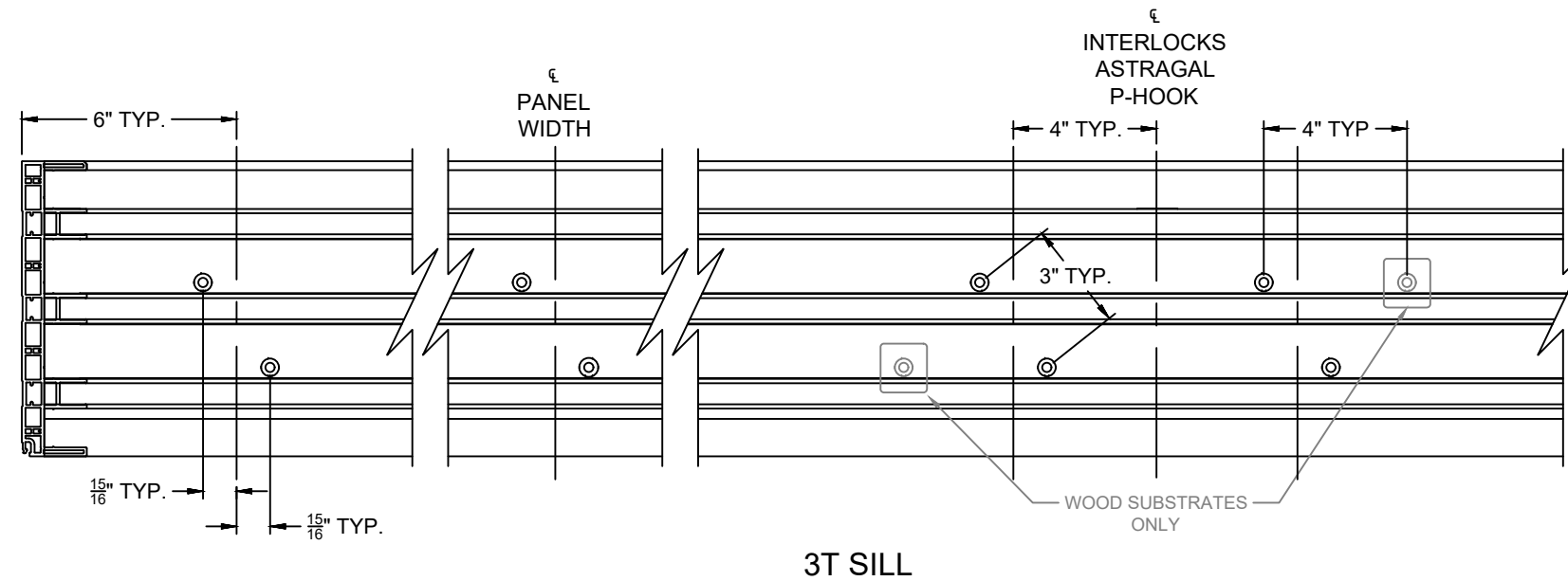
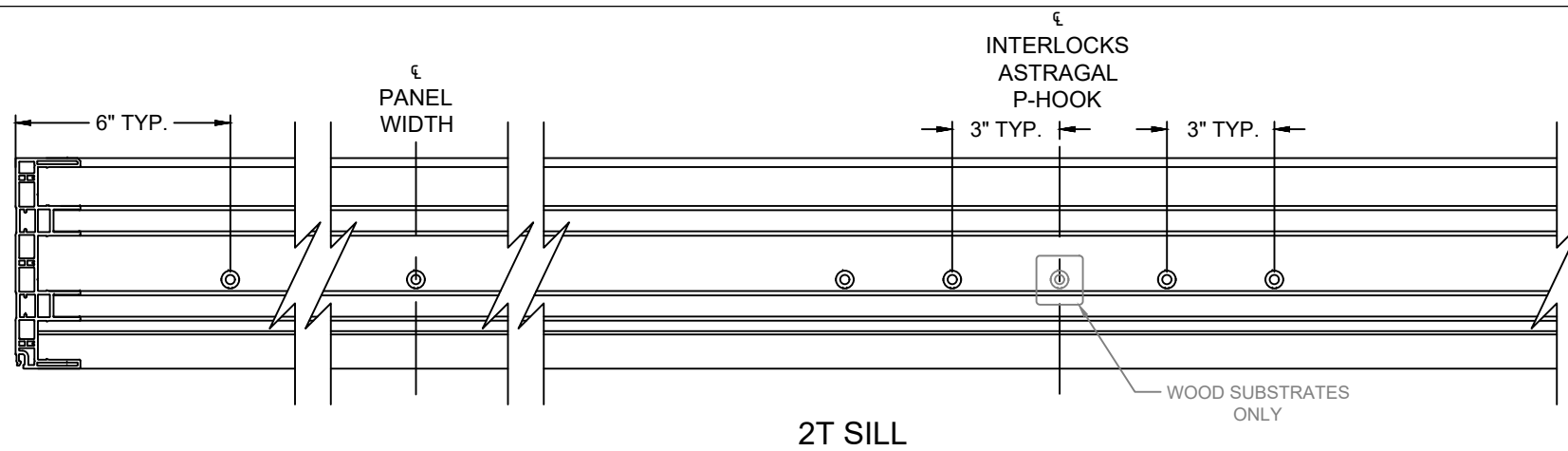


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FL PE # 58201  
2428 Old Natchez Trc Trl  
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SHEET DESCRIPTION:  
ANCHOR SCHEDULE AND  
NOTES

|                    |                   |
|--------------------|-------------------|
| DRAWN BY:<br>BLZ   | DATE:<br>05/06/16 |
| DWG #:<br>CWS-1150 | REV.:<br>B        |
| SCALE:<br>1:20     | SHEET<br>7 OF 11  |



NOTE:  $\phi$  = CENTERLINE OF INTERLOCK OR ASTRAGAL

\* CIRCLED ANCHOR LOCATIONS REQ'D ONLY IN WOOD INSTALLATIONS.

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SLIDING GLASS  
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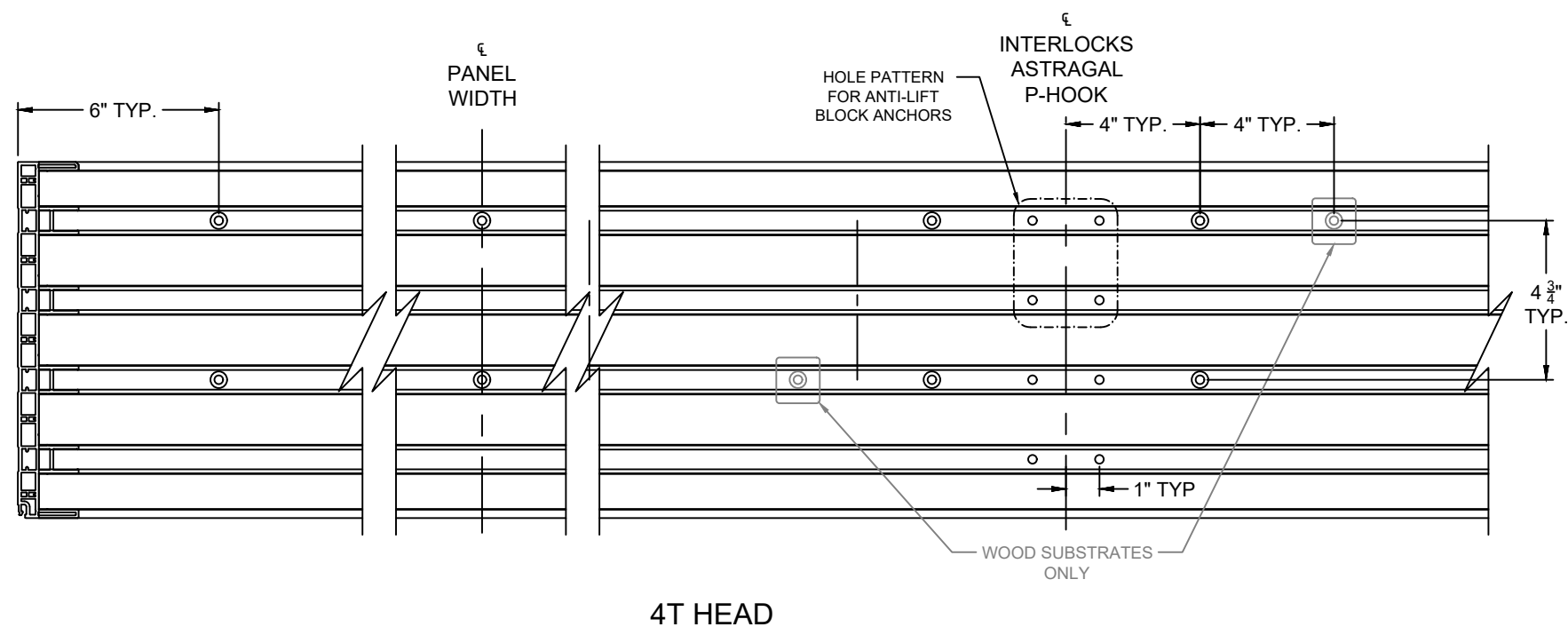
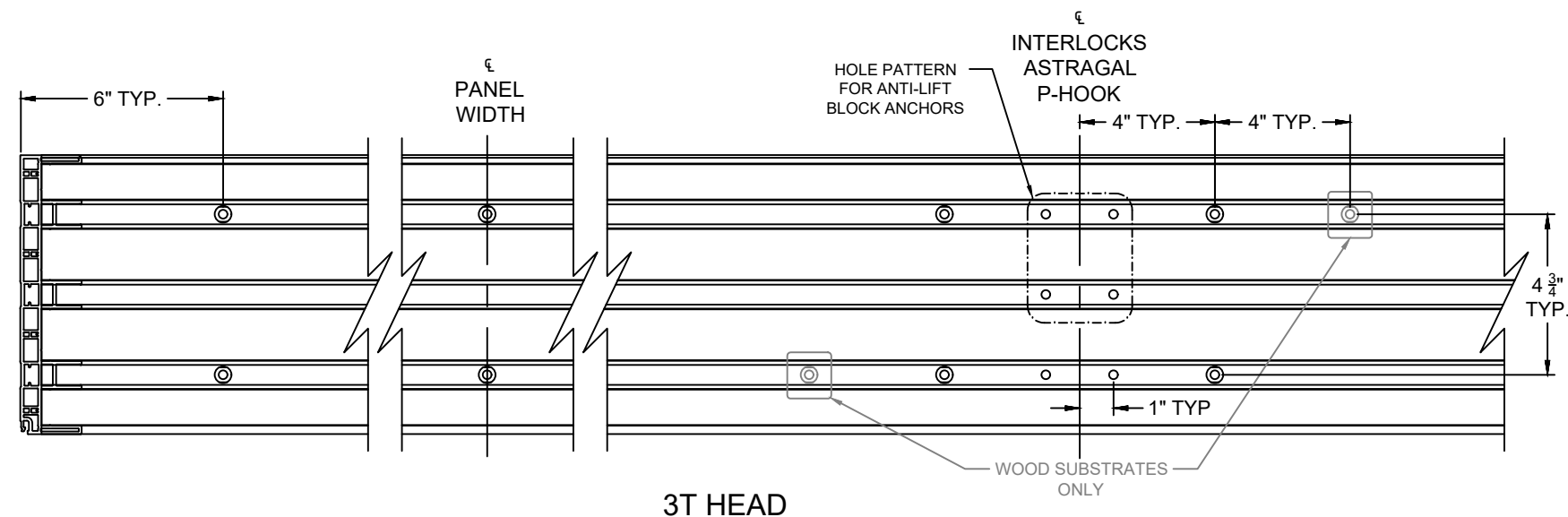
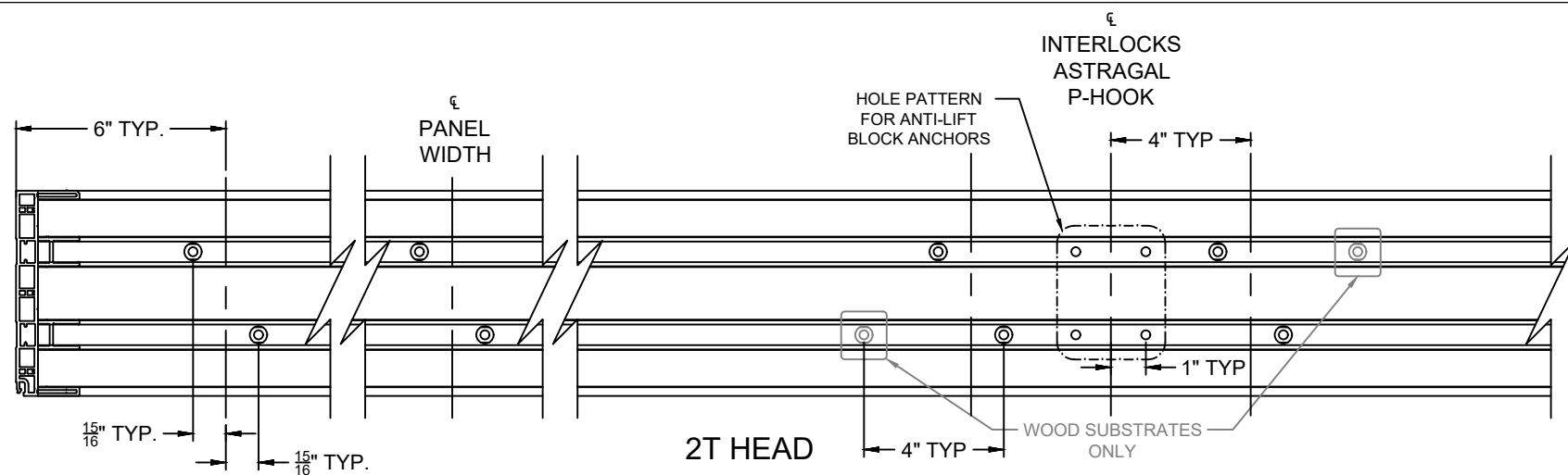
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SHEET DESCRIPTION:  
**ANCHOR PATTERNS  
(JAMB & SILL)**

|                    |                   |
|--------------------|-------------------|
| DRAWN BY:<br>BLZ   | DATE:<br>05/06/16 |
| DWG #:<br>CWS-1150 | REV.:<br>B        |
| SCALE:<br>1:5      | SHEET<br>8 OF 11  |





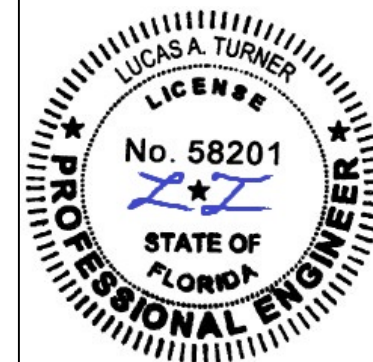
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NOTE:  $\varnothing$  = CENTERLINE OF INTERLOCK OR ASTRAGAL

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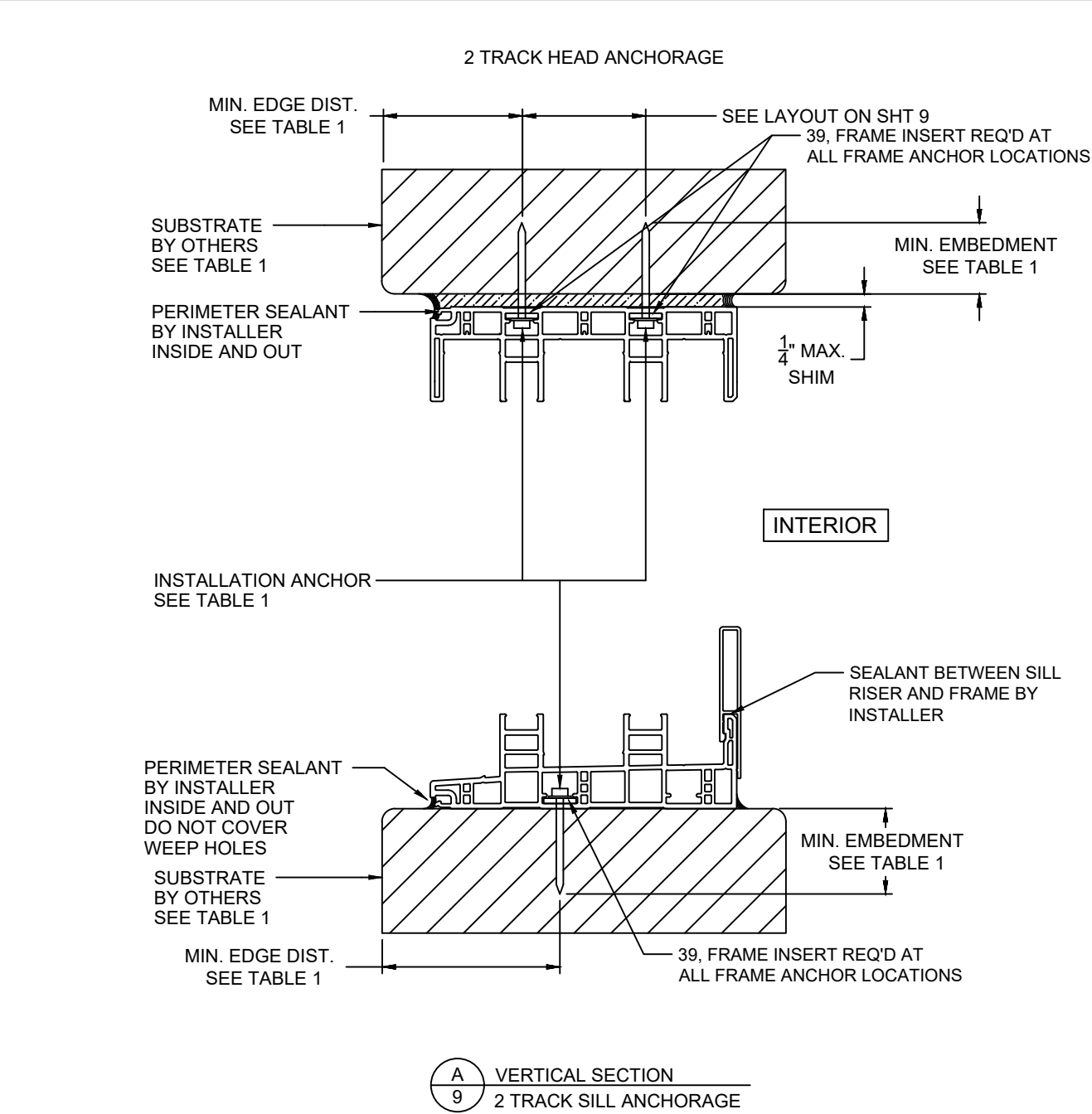


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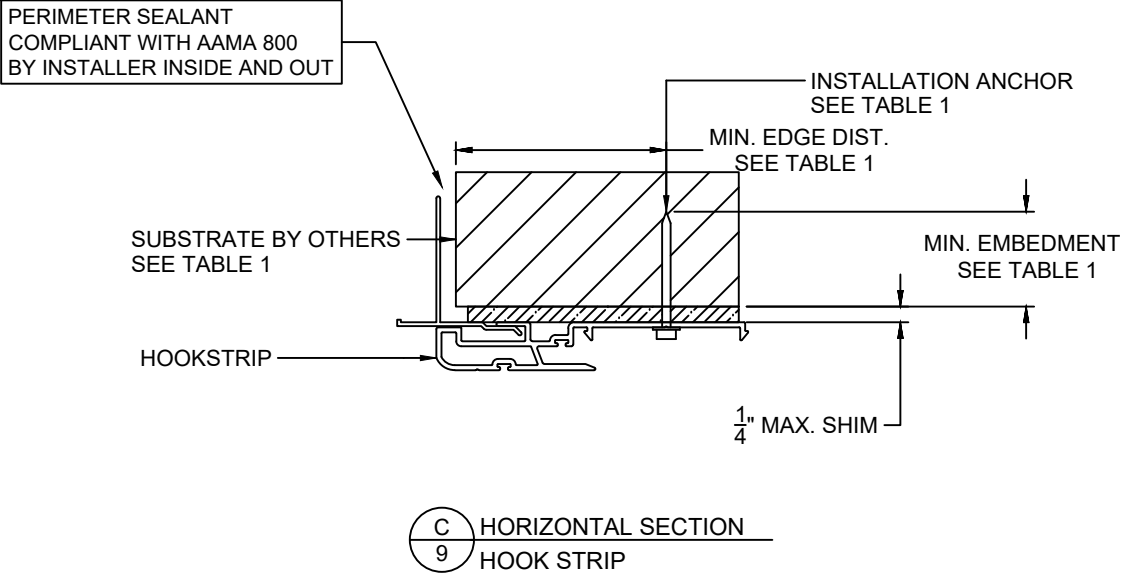
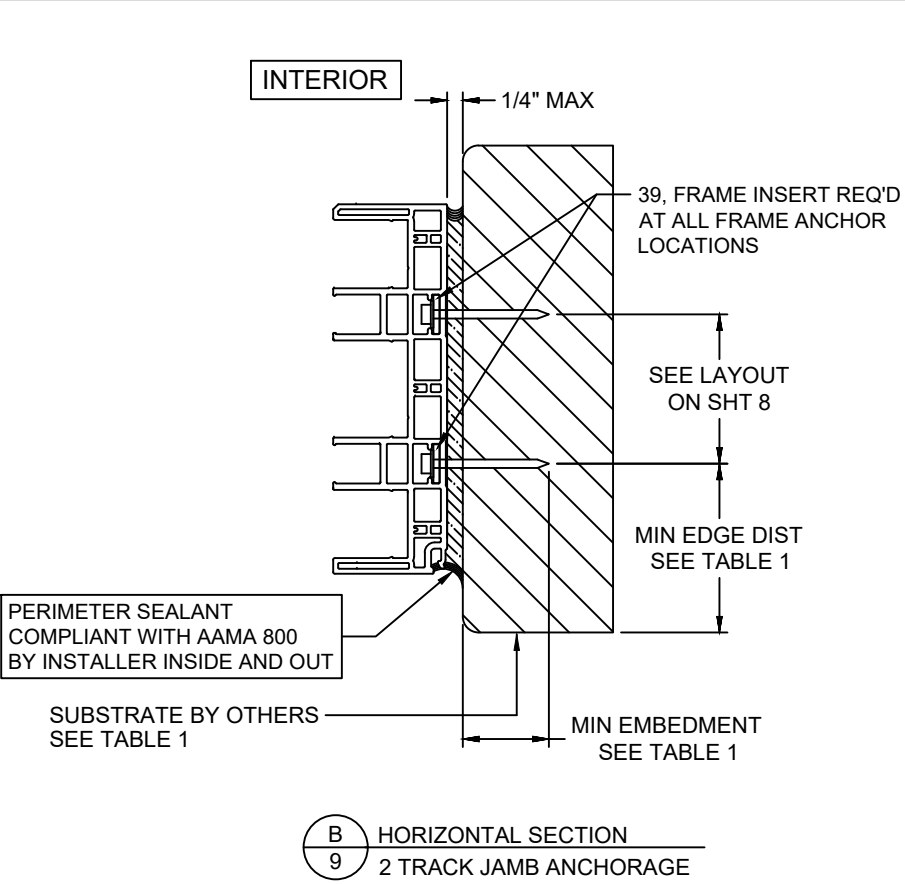
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SHEET DESCRIPTION:  
**ANCHOR PATTERNS  
(HEAD)**

|                    |                   |
|--------------------|-------------------|
| DRAWN BY:<br>BLZ   | DATE:<br>05/06/16 |
| DWG #:<br>CWS-1150 | REV.:<br>B        |
| SCALE:<br>1:5      | SHEET<br>9 OF 11  |

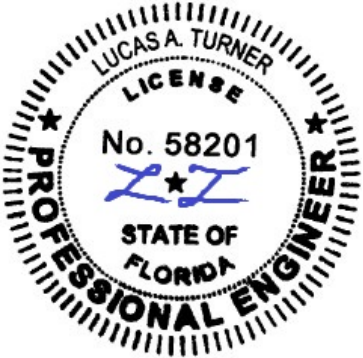


| TABLE 1: APPROVED INSTALLATION FASTENERS                             |                                                        |                         |                 |
|----------------------------------------------------------------------|--------------------------------------------------------|-------------------------|-----------------|
| SUBSTRATE TYPE                                                       | ANCHOR TYPE                                            | MIN. EMBEDMENT          | MIN. EDGE DIST. |
| CONCRETE (2.0 KSI MIN.)                                              | 1/4" ITW TAPCON                                        | 1-1/2"                  | 4"              |
| CONCRETE (2.85 KSI MIN.)                                             | 1/4" ELCO ULTRACON                                     | 1-3/4"                  | 2-1/2"          |
| 2X MIN. SOUTHERN PINE (G=0.55)                                       | 1/4" ITW TAPCON OR ELCO ULTRACON                       | 1-3/8"                  | 7/8"            |
| 2X MIN. SOUTHERN PINE (G=0.55)                                       | #12 WOOD SCREW                                         | 1-3/8"                  | 7/8"            |
| 16 GAUGE (0.060") MIN. STEEL STUD (33 KSI YIELD MIN)                 | #12-14 HILTI KWIK-FLEX OR ITW TEKS SELF-DRILLING SCREW | FULL THREAD THRU 0.060" | 1/2"            |
| 1/8" ALUM. (6063-T5 MIN.) OR 1/8" STEEL (33 KSI MIN.)                | #12 GRADE 5 SELF-TAPPING / DRILLING SCREW              | FULL THREAD THRU 0.125" | 1/2"            |
| HOOKSTRIP OR JAMB FRAME ONLY: HOLLOW OR GROUT-FILLED CMU (ASTM C-90) | 1/4" ELCO ULTRACON                                     | 1-3/4"                  | 2-1/2"          |



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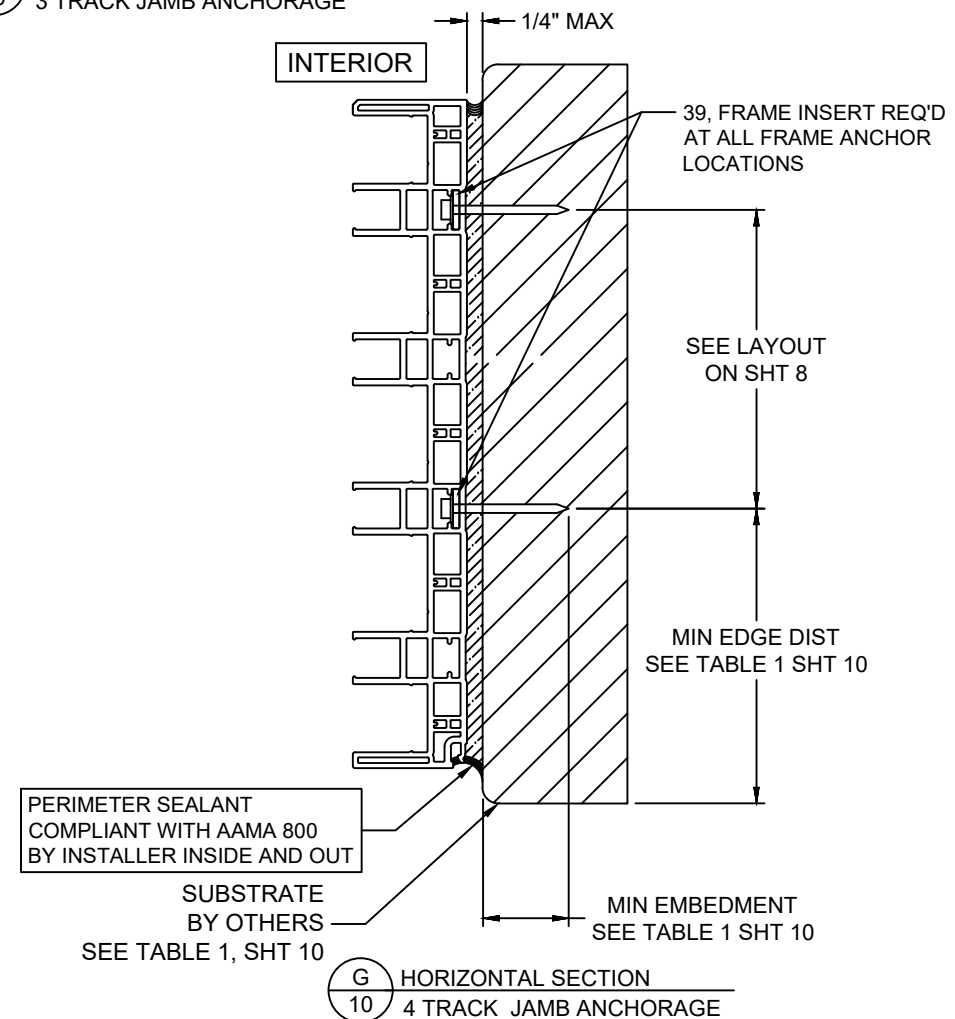
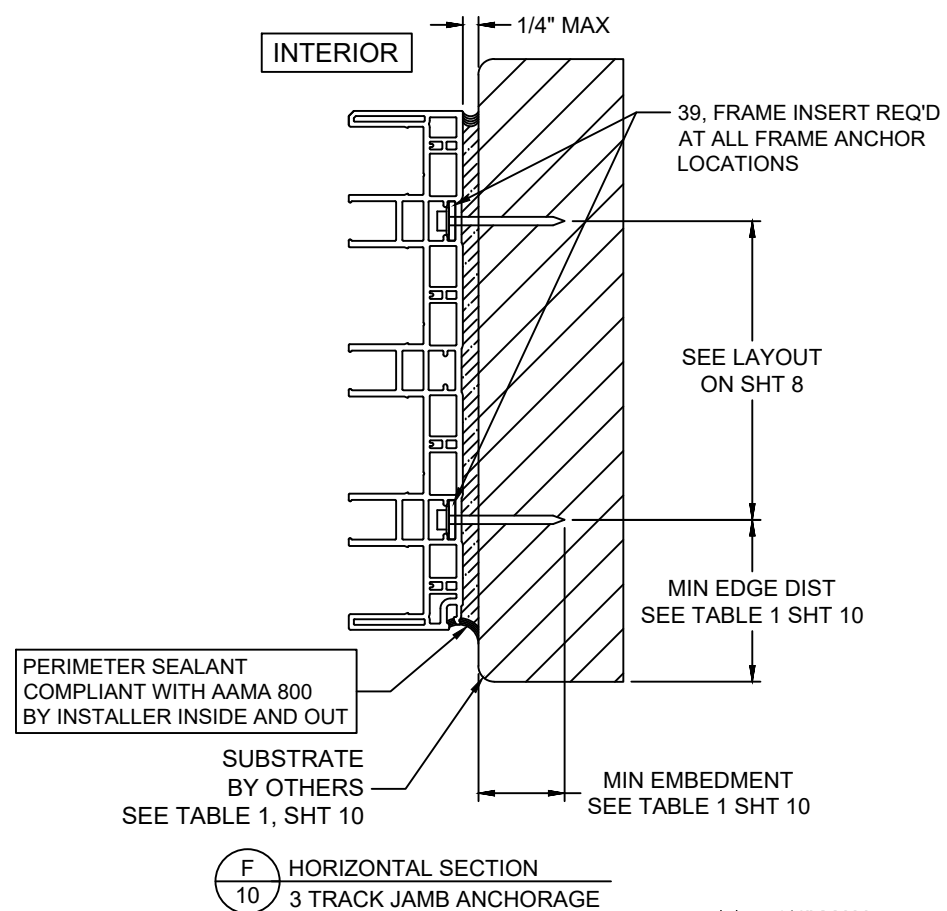
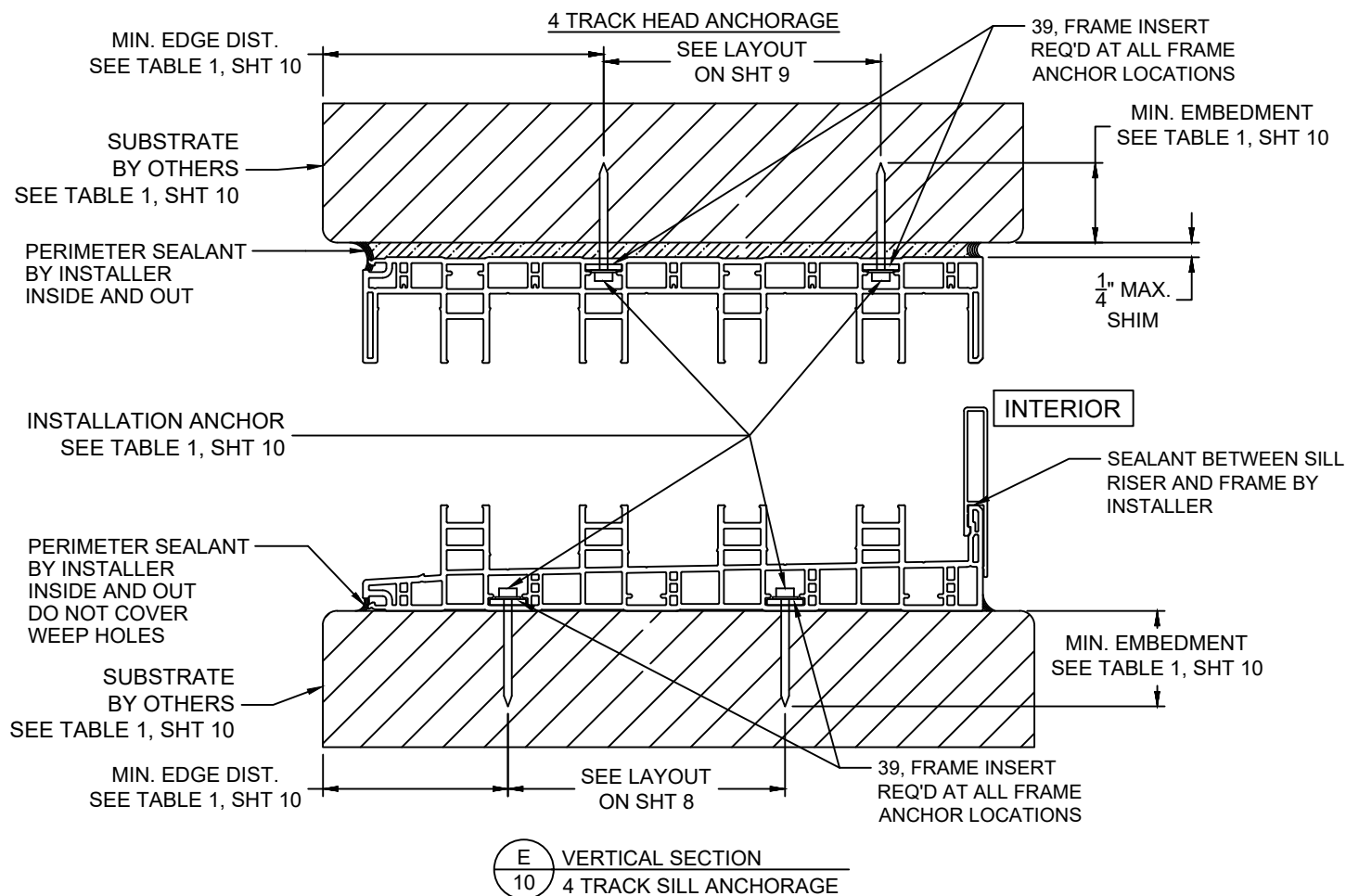
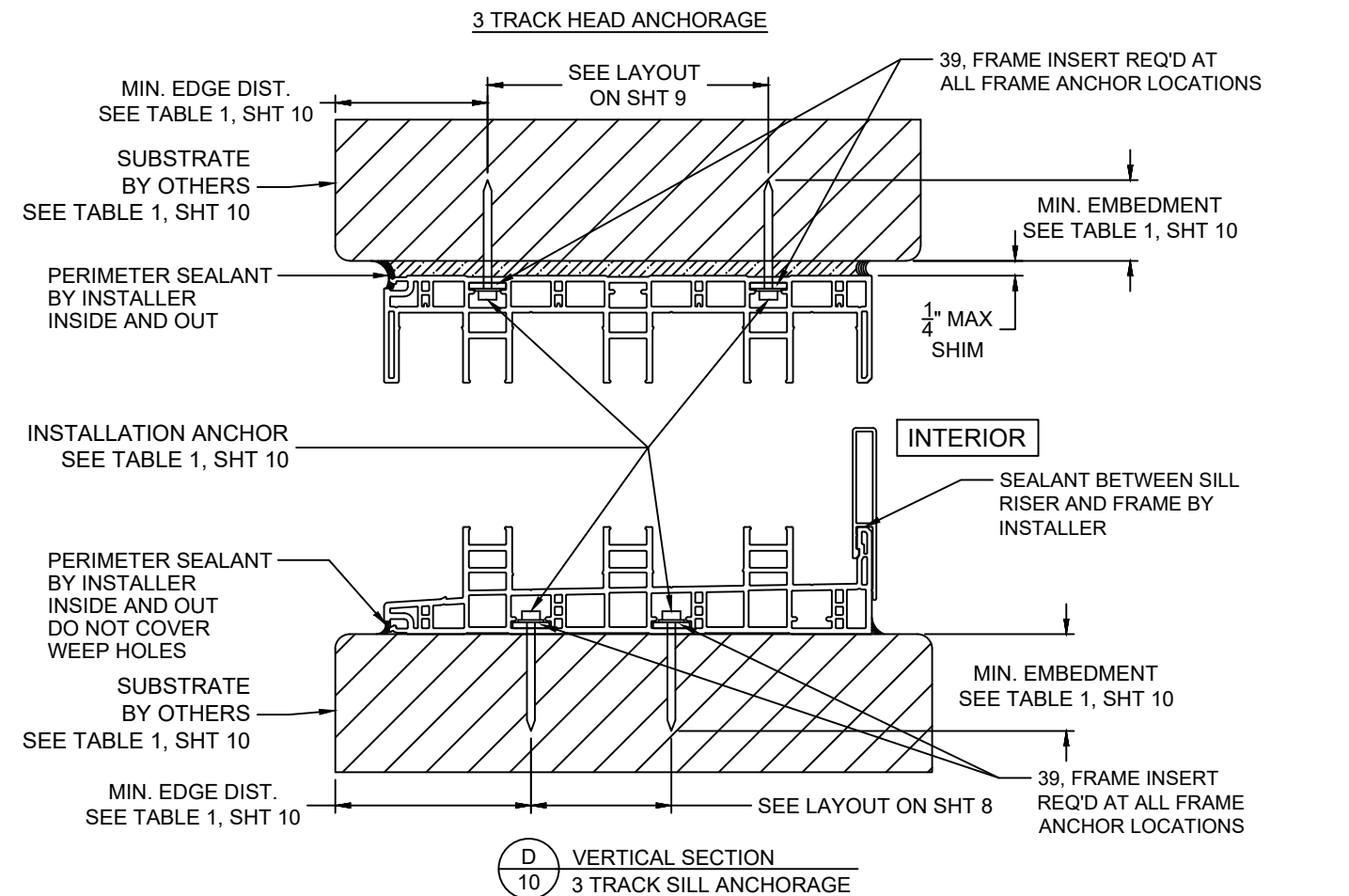
SHEET DESCRIPTION:

INSTALLATION DETAILS  
2 TRACK

DRAWN BY: BLZ  
DATE: 05/06/16

DWG #: CWS-1150  
REV.: B

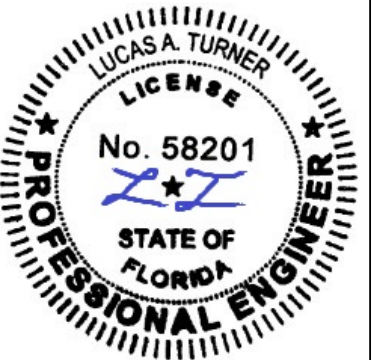
SCALE: 1:3  
SHEET 10 OF 11



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SHEET DESCRIPTION:

INSTALLATION DETAILS  
3 & 4 TRACK

|           |          |
|-----------|----------|
| DRAWN BY: | DATE:    |
| BLZ       | 05/06/16 |
| DWG #:    | REV.:    |
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| SCALE:    | SHEET    |
| 1:3       | 11 OF 11 |