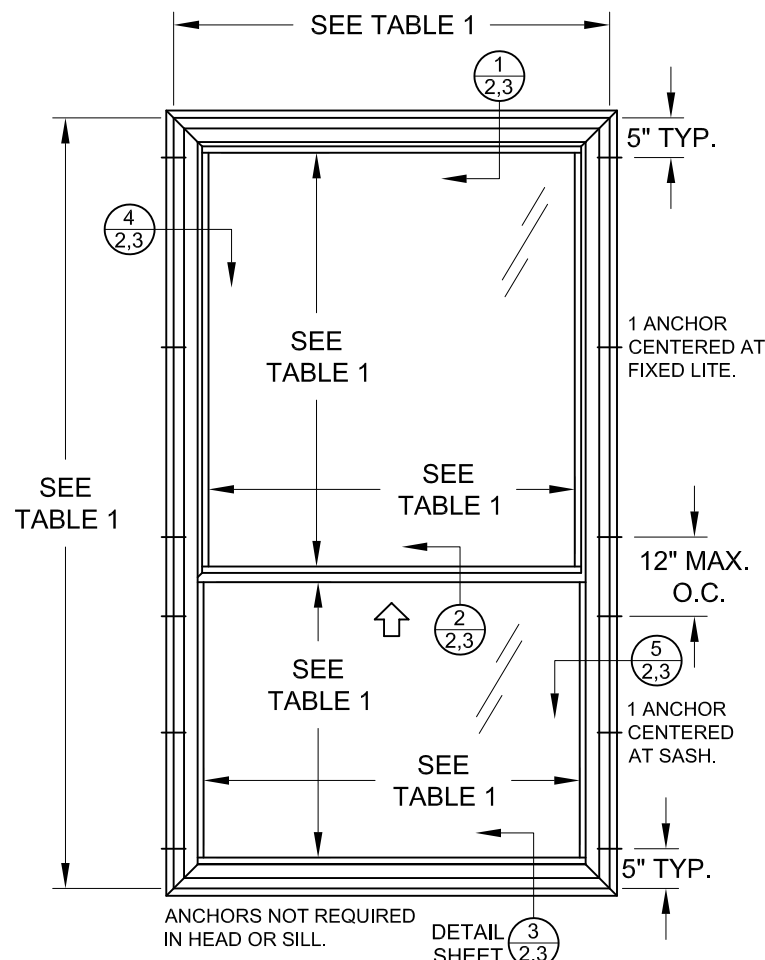
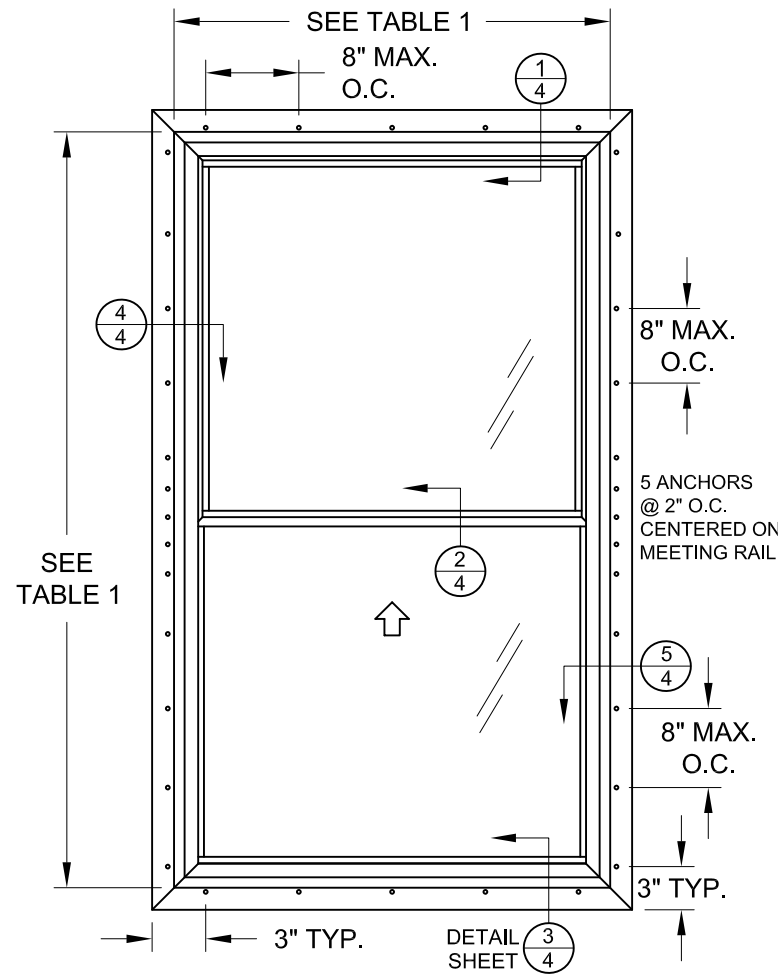


| | |
|-------------|----------------------|
| DP RATING | NON-IMPACT RESISTANT |
| SEE TABLE 1 | |

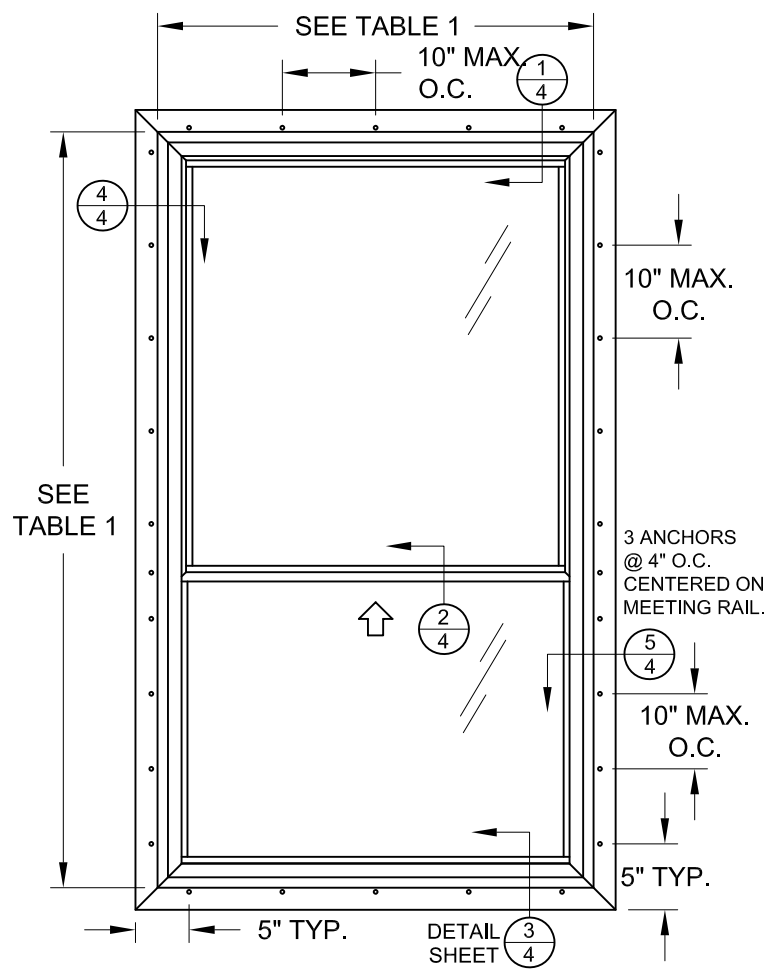
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TYP. ANCHOR LOCATIONS
(FLANGED FRAME SHOWN, EQUAL-LEG SIM.)
(ORIEL SHOWN, EQUAL-LITE SIMILAR)



TYP. FIN ANCHOR LOCATIONS (A)
(INTEGRAL FIN FRAME, EQUAL-LITE SHOWN,
ORIEL SIMILAR)



TYP. FIN ANCHOR LOCATIONS (B)
(INTEGRAL FIN FRAME,
MAX. SIZE ORIEL CONFIG.)

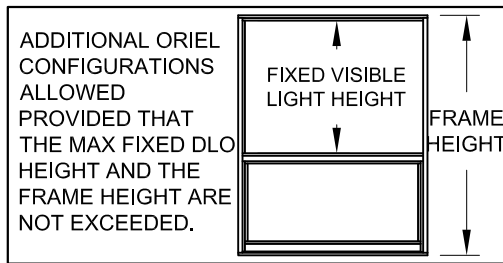


TABLE 1: DESIGN PRESSURES

| Buck Width | Buck Height | Max. Sash DLO Size (Width x Height) | Max. Fixed DLO Size (Width x Height) | Configuration | Frame Type | Glass Type | Design Pressure | |
|------------|-------------|-------------------------------------|--------------------------------------|---------------|-------------------|------------|-----------------|---------|
| | | | | | | | (+) psf | (-) psf |
| 54" | 76" | 47.25" x 34.44" | 49.75" x 34.44" | Equal-lite | All | 1 | 50.0 | 50.0 |
| 36" | 72" | 29.25" x 32.44" | 31.75" x 32.44" | Equal-lite | All | 1 | 65.0 | 75.0 |
| 48" | 84" | 41.25" x 38.25" | 43.75" x 38.63" | Equal-lite | Flange, Equal-Leg | 1 | 45.0 | 45.0 |
| 48" | 84" | 41.25" x 38.25" | 43.75" x 38.63" | Equal-lite | Fin (A) | 1 | 50.0 | 55.0 |
| 54" | 92" | 47.25" x 34.19" | 49.81" x 50.75" | Oriel | Flange, Equal-Leg | 2 | 30.0 | 30.0 |
| 54" | 92" | 47.25" x 34.19" | 49.81" x 50.75" | Oriel | Fin (B) | 2 | 40.0 | 40.0 |

FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.

FOR GLASS TYPES, SEE SHEET 6.

SH800V SINGLE HUNG, TILT WINDOW, NON-IMPACT RESISTANT, FLANGE, EQUAL-LEG & FIN FRAMES

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, EXCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

2) SHUTTERS ARE REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.

3) MASONRY ANCHORS MAY BE USED INTO WOOD. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER.

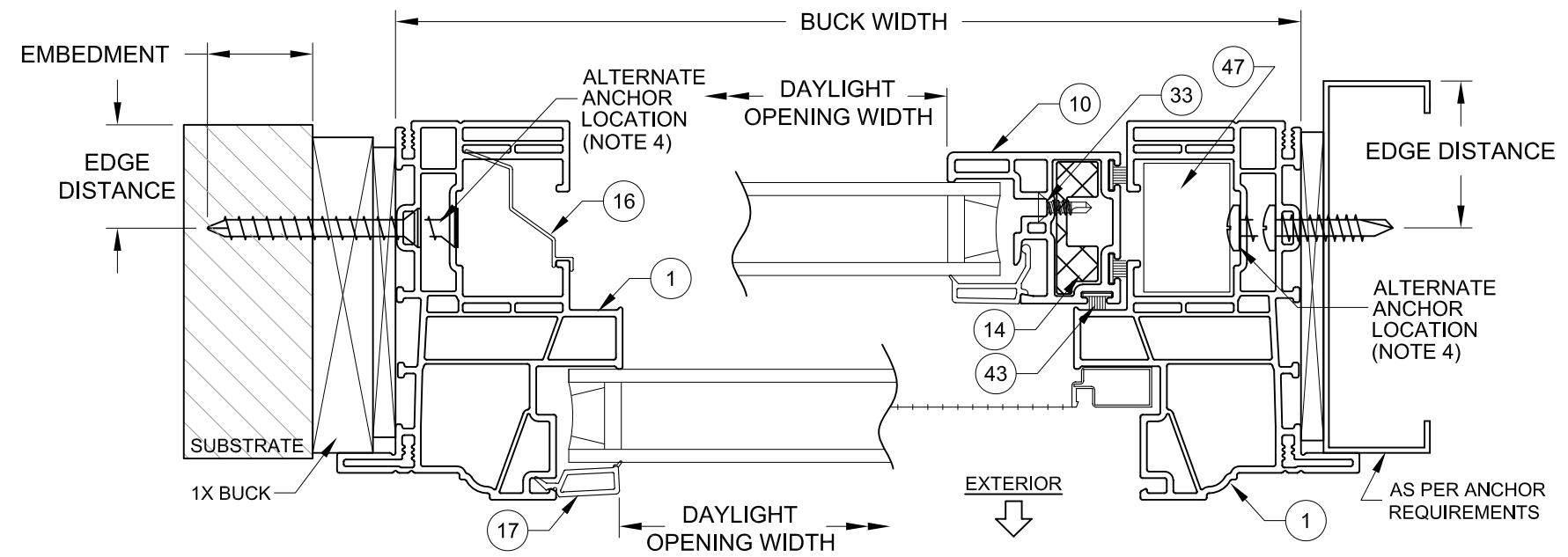
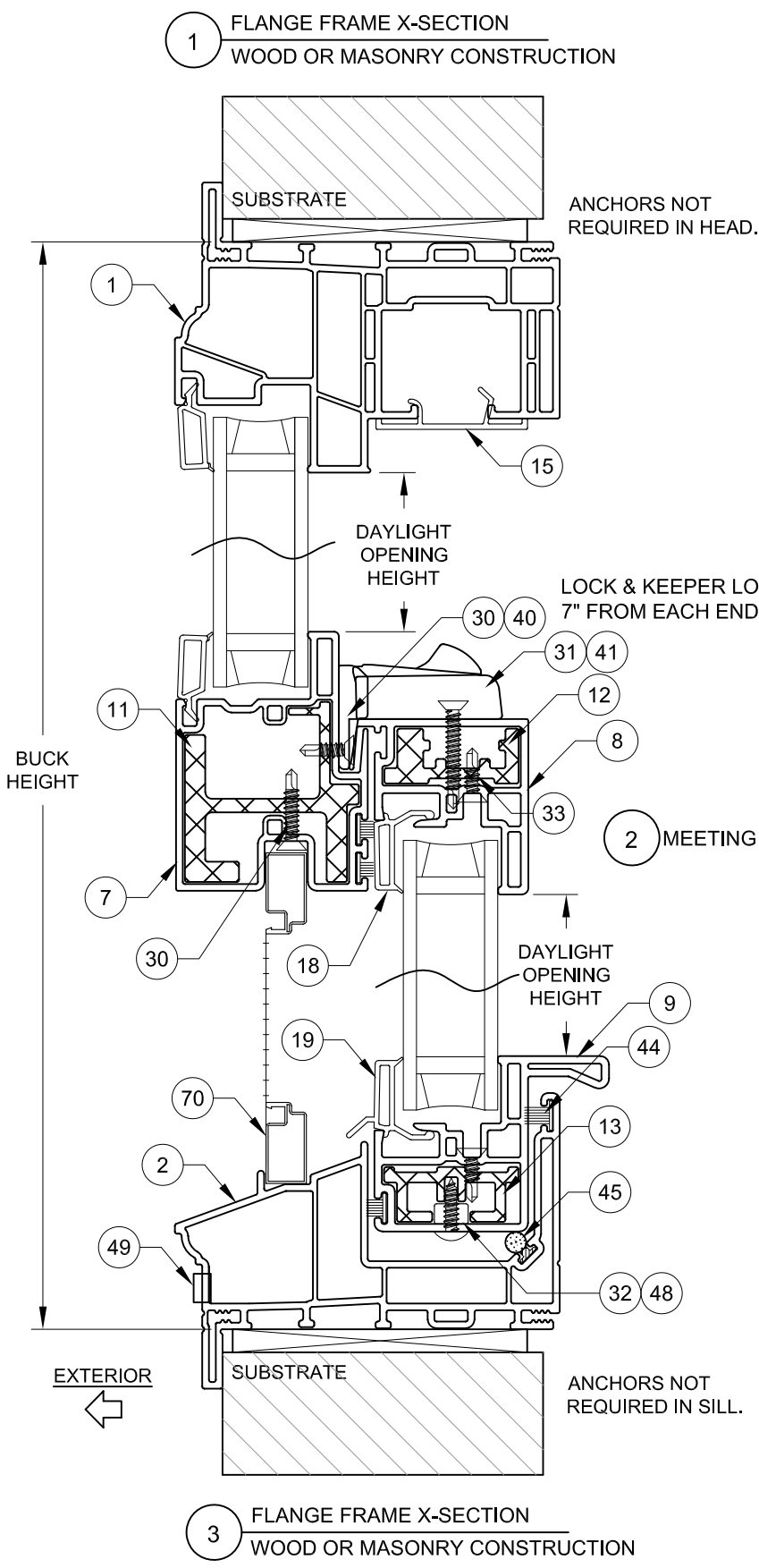
4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH.

5) MAX. 1/4" SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS.

6) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WIND LOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.

7) FRAME FLANGES OR INTEGRAL FINNS MAY BE TRIMMED IN-FIELD TO CREATE AN EQUAL-LEG FRAME.

| | | | | |
|--|---|------------------|-------------------------|----------------------|
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| | VINYL SINGLE HUNG WINDOW (NI) ELEVATION & GENERAL NOTES | SH800V Sheet | 1 OF 6 Desc. | SH800V Title |



4 FLANGE FRAME X-SECTION USING 1X BUCK
5 FLANGE FRAME X-SECTION STEEL STUD CONSTRUCTION

TABLE 2: INSTALLATION ANCHORS

| Anchor | Substrate | Minimum Edge Distance | Minimum Embedment |
|----------------------------------|----------------------------|-----------------------|-------------------|
| #10 or #12 Steel or 410 SS Screw | Southern Pine (SG = .55) | 1/2" | 1-3/8" |
| | Aluminum, 6063-T5 min. | 5/16" | 0.050" |
| | Steel Stud, Gr. 33 min. | 5/16" | 0.045" (20 Ga) |
| | A36 Steel | 5/16" | 0.050" |
| 3/16" Steel Ultracon+ | Concrete (min. 2.9 ksi) | 1" | 1-3/4" |
| | Ungrouted CMU, (ASTM C-90) | 1-1/16" | 1-1/4" |
| | Southern Pine (SG = .55) | 1" | 1-3/8" |
| 1/4" Steel Ultracon+ | Concrete (min. 3.0 ksi) | 1" | 1-3/8" |
| | Ungrouted CMU, (ASTM C-90) | 1" | 1-1/4" |
| | Southern Pine (SG = .55) | 1" | 1-3/8" |

- 1) ANCHOR MUST EXTEND A MINIMUM OF 3 THREADS BEYOND ANY METAL SUBSTRATE.
- 2) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.
- 3) ALL ANCHOR HEAD TYPES ARE APPLICABLE.

INSTALLATION NOTES:

- 1) SEE SHEET 1 FOR ANCHOR SPACING REQUIREMENTS.
- 2) ANY INSTALLATION OPTION SHOWN (2X BUCK OR WOOD FRAMING, 1X BUCK, DIRECT TO MASONRY, STEEL STUD) MAY BE USED ON ANY SIDE OF THE WINDOW.
- 3) USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED IN ANCHOR TABLE 2. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. MAX. SHIM THICKNESS TO BE 1/4".
- 4) MAXIMUM DESIGN PRESSURE LIMITED TO +/- 50 PSF FOR ALTERNATE ANCHOR LOCATION.

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PREPARED BY A. LYNN MILLER
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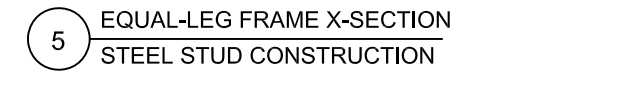
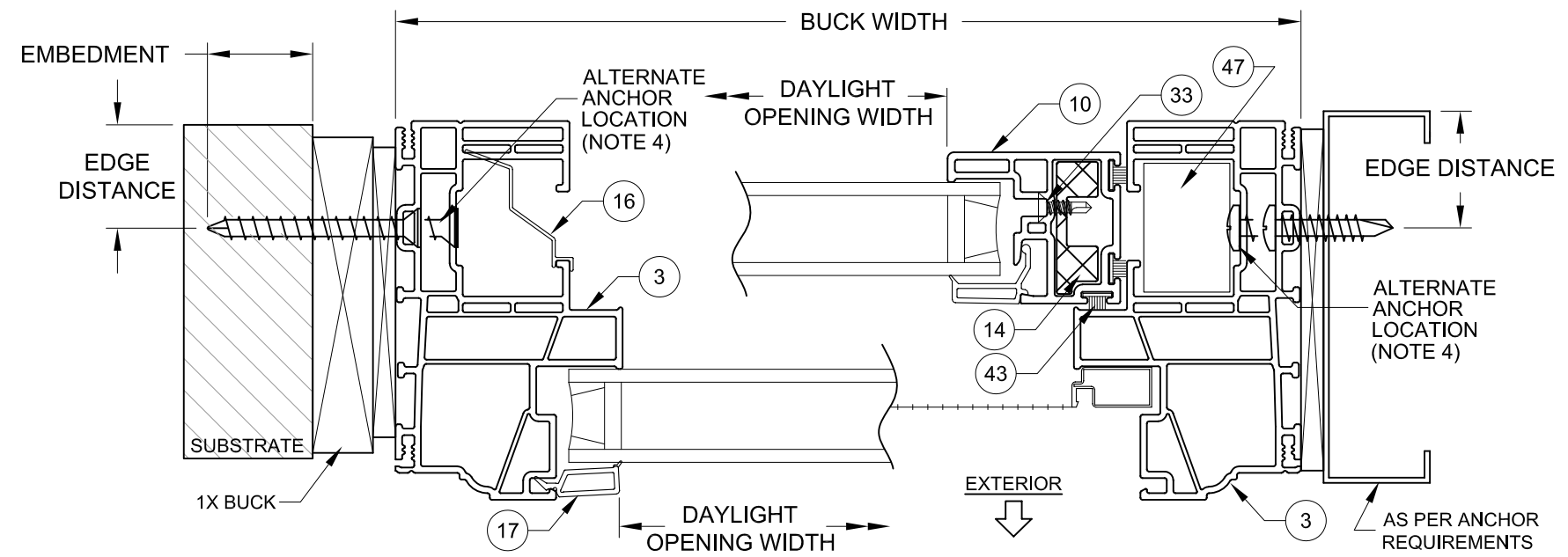
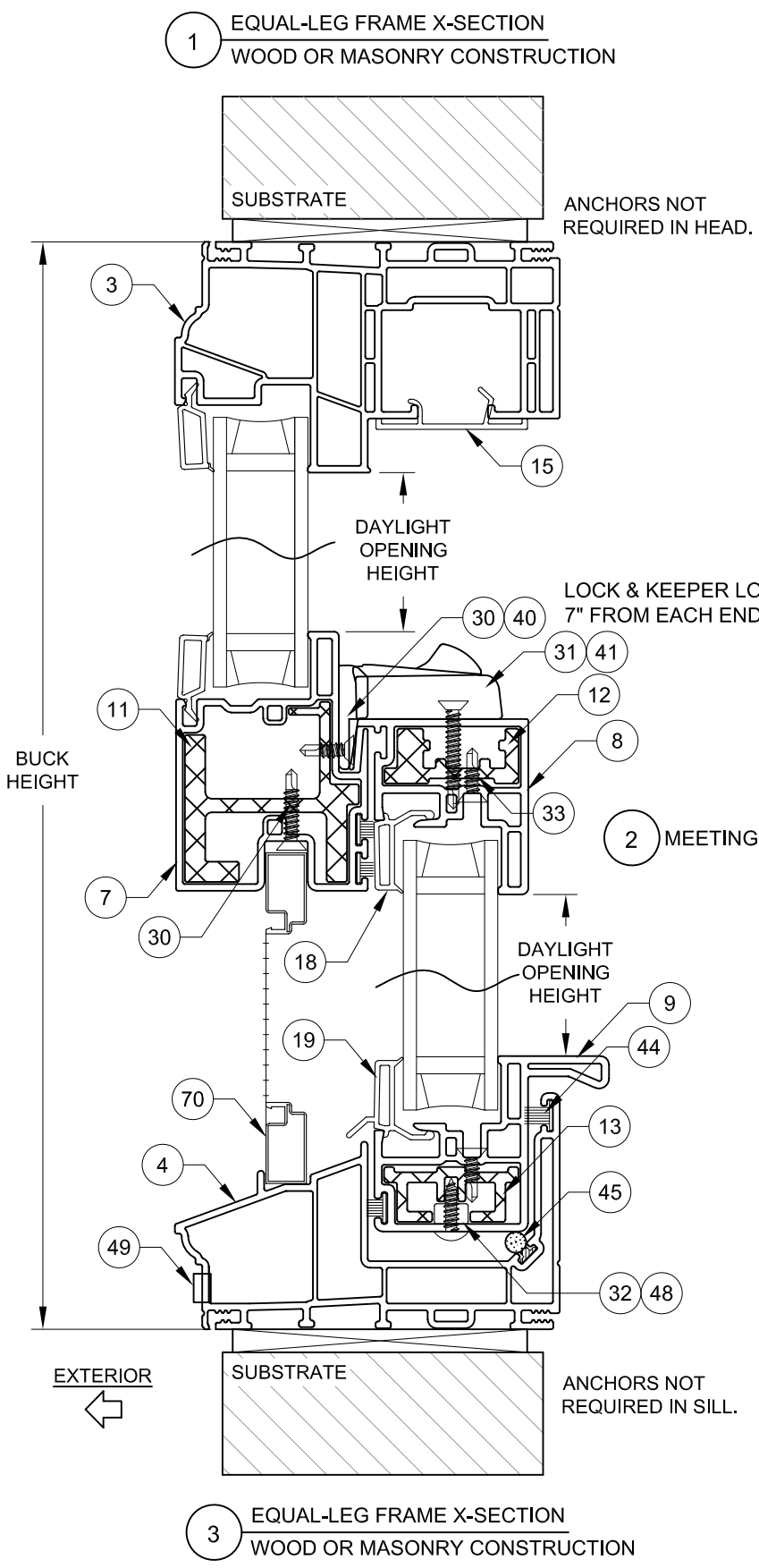
2 OF 6
DWG

SH800V
Sheet

VINYL SINGLE HUNG WINDOW (NI)
Title

FLANGE INSTALL SECTION VIEWS
Desc.

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LICENSE
No. 58705
A. Lynn Miller
08/18/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



4 EQUAL-LEG FRAME X-SECTION USING 1X BUCK

5 EQUAL-LEG FRAME X-SECTION STEEL STUD CONSTRUCTION

TABLE 3: INSTALLATION ANCHORS

| Anchor | Substrate | Minimum Edge Distance | Minimum Embedment |
|----------------------------------|----------------------------|-----------------------|-------------------|
| #10 or #12 Steel or 410 SS Screw | Southern Pine (SG = .55) | 1/2" | 1-3/8" |
| | Aluminum, 6063-T5 min. | 5/16" | 0.050" |
| | Steel Stud, Gr. 33 min. | 5/16" | 0.045" (20 Ga) |
| | A36 Steel | 5/16" | 0.050" |
| 3/16" Steel Ultracon+ | Concrete (min. 2.9 ksi) | 1" | 1-3/4" |
| | UngROUTED CMU, (ASTM C-90) | 1-1/16" | 1-1/4" |
| | Southern Pine (SG = .55) | 1" | 1-3/8" |
| 1/4" Steel Ultracon+ | Concrete (min. 3.0 ksi) | 1" | 1-3/8" |
| | UngROUTED CMU, (ASTM C-90) | 1" | 1-1/4" |
| | Southern Pine (SG = .55) | 1" | 1-3/8" |

- 1) ANCHOR MUST EXTEND A MINIMUM OF 3 THREADS BEYOND ANY METAL SUBSTRATE.
- 2) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUDED CMU APPLICATIONS.
- 3) ALL ANCHOR HEAD TYPES ARE APPLICABLE.

INSTALLATION NOTES:

- 1) SEE SHEET 1 FOR ANCHOR SPACING REQUIREMENTS.
- 2) ANY INSTALLATION OPTION SHOWN (2X BUCK OR WOOD FRAMING, 1X BUCK, DIRECT TO MASONRY, STEEL STUD) MAY BE USED ON ANY SIDE OF THE WINDOW.
- 3) USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED IN ANCHOR TABLE 3. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. MAX. SHIM THICKNESS TO BE 1/4".
- 4) MAXIMUM DESIGN PRESSURE LIMITED TO +/- 50 PSF FOR ALTERNATE ANCHOR LOCATION.

Rev.# 08/17/23
Date
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Rev.

PREPARED BY A. LYNN MILLER
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04/14/23
Date
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By
SH800V-FPA-NI
No.
3 OF 6
DWG
SH800V
Sheet
VINYL SINGLE HUNG WINDOW (NI)
EQUAL-LEG INSTALLATION
SECTION VIEWS
Series Desc. Title

ANTHONY LYNN MILLER
LICENSE
No. 58705
A. Lynn Miller
08/18/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
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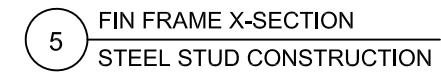
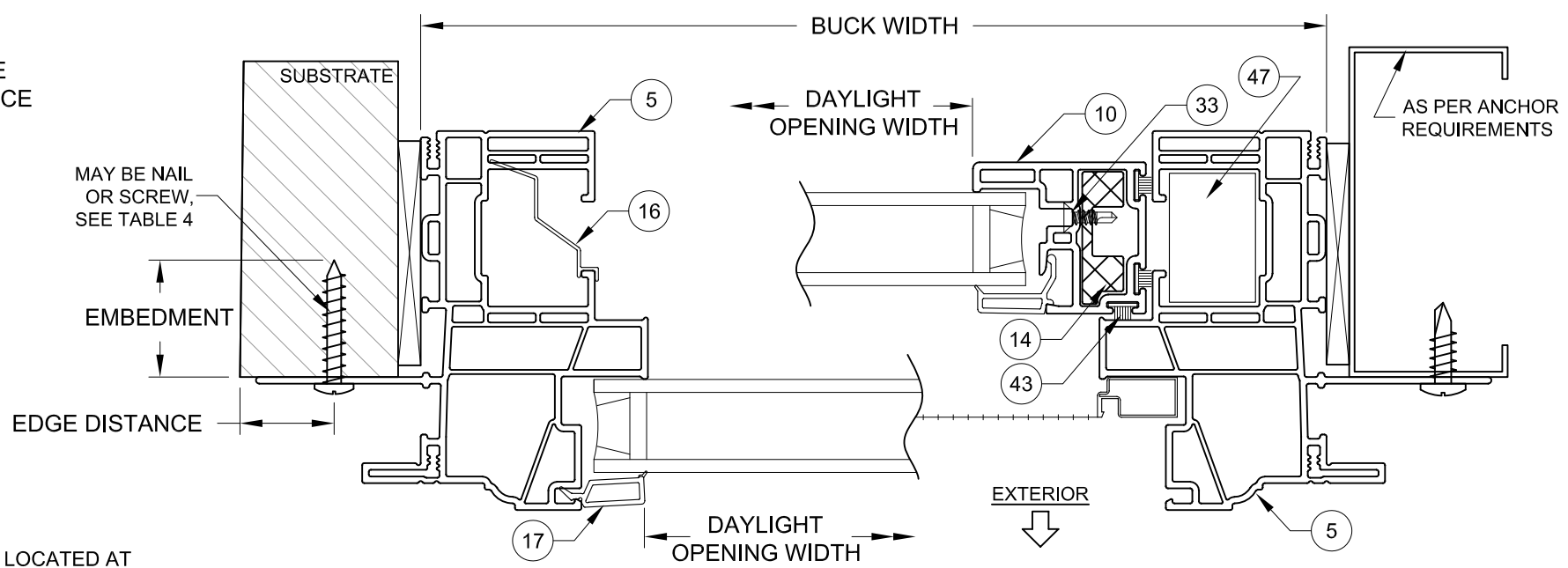
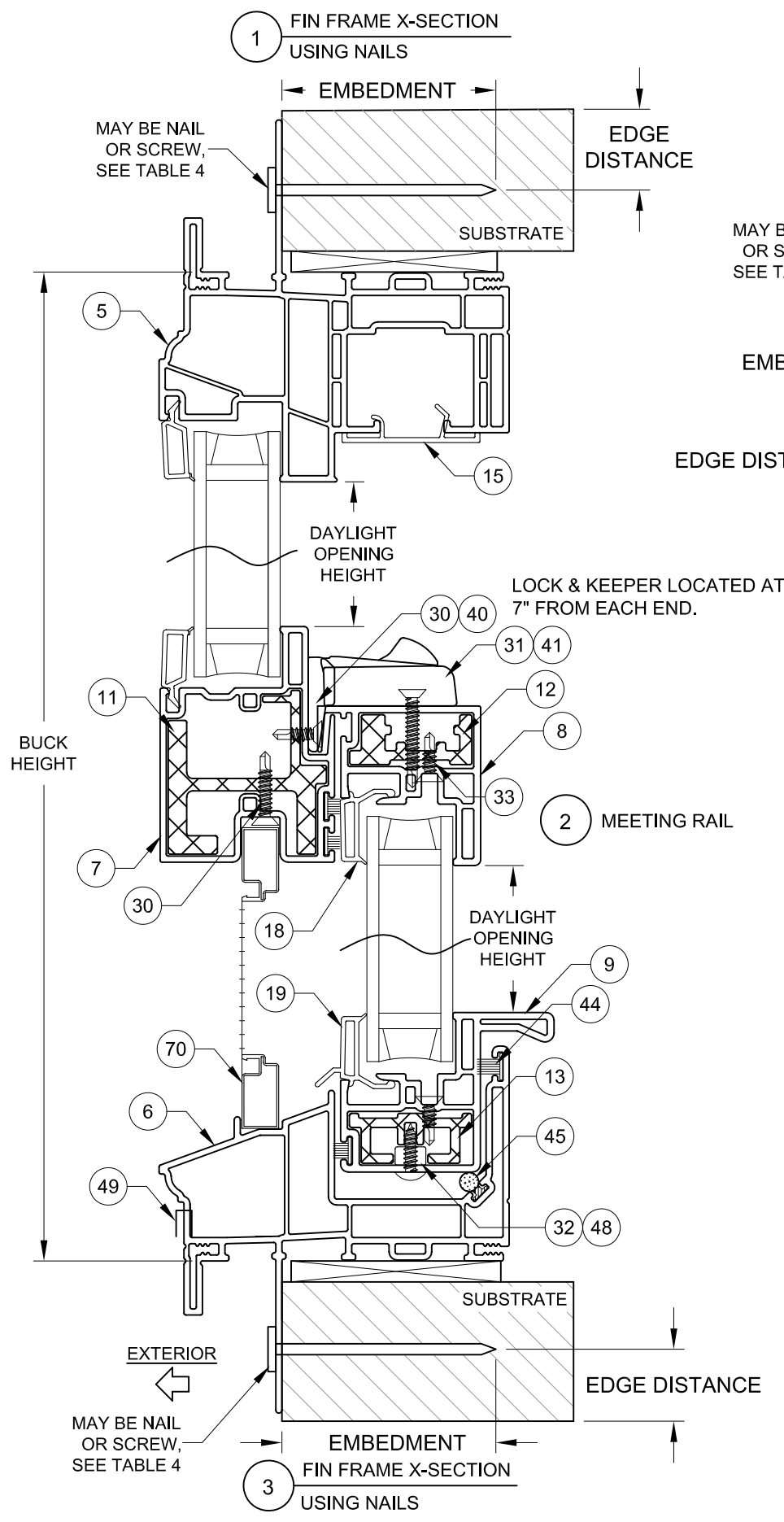


TABLE 4: INSTALLATION ANCHORS

| Anchor | Substrate | Min. Edge Distance | Min. Embedment |
|-----------------------------|-------------------------------|--------------------|----------------|
| 2-1/2" x .113" Box Nail | P.T. Southern Pine (SG = .55) | 5/16" | 2-7/16" |
| 2-1/2" x .131" Common Nail | P.T. Southern Pine (SG = .55) | 3/8" | 2-7/16" |
| 2-1/2" x .145" Roofing Nail | P.T. Southern Pine (SG = .55) | 3/8" | 2-7/16" |
| #10 Steel SMS | P.T. Southern Pine (SG = .55) | 1/2" | 1-3/8" |
| | Aluminum, 6063-T5 min. | 3/8" | 1/8" |
| | Steel Stud, Gr. 33 min. | 3/8" | 0.036 |
| | A36 Steel | 3/8" | 1/8" |

1) ANCHOR MUST EXTEND A MINIMUM OF 3 THREADS BEYOND ANY METAL SUBSTRATE.
2) ALL ANCHOR HEAD TYPES ARE APPLICABLE.

INSTALLATION NOTES:

- 1) SEE SHEET 1 FOR ANCHOR SPACING REQUIREMENTS.
- 2) FLANGE AND/OR FIN MAY BE REMOVED TO CREATE OTHER FRAME TYPES.
- 3) USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED IN ANCHOR TABLE 4. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS.
- 4) MAX SHIM THICKNESS TO BE 1/4". MAX SHIM SPACING TO BE 18".

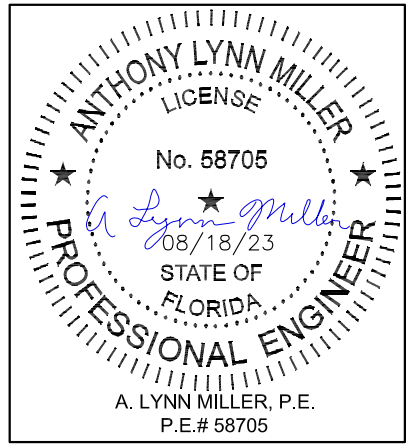
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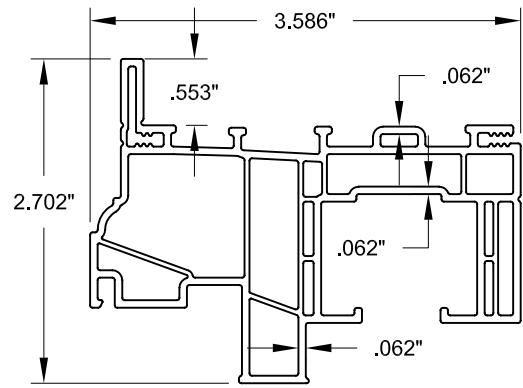
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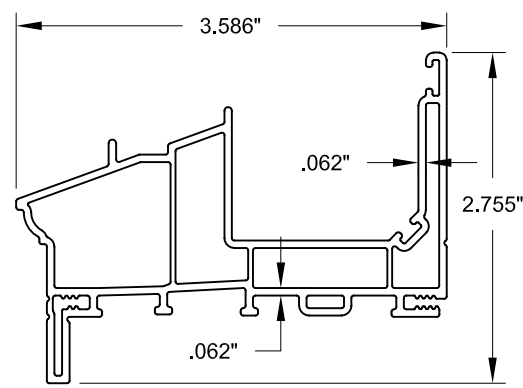
VINYL SINGLE HUNG WINDOW (NI)
Date: 04/14/23
By: LOGAN YODER
Drawn: LOGAN YODER

SH800V
FIN INSTALLATION SECTION VIEWS
4 OF 6
SH800V-FPA-NI

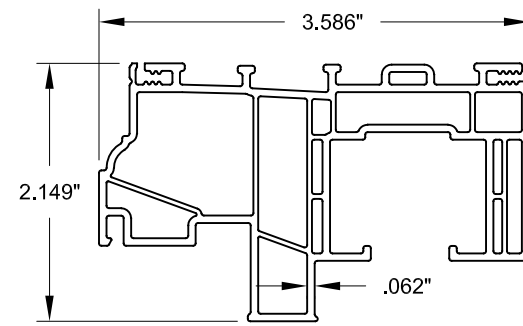




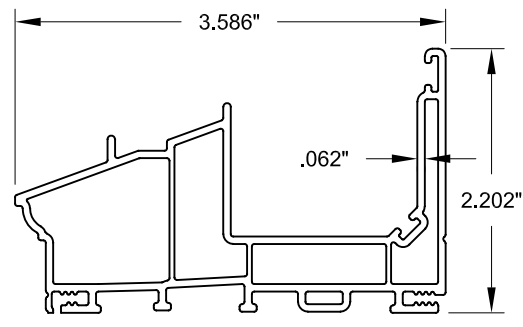
1 HEAD & JAMB, W/FLANGE



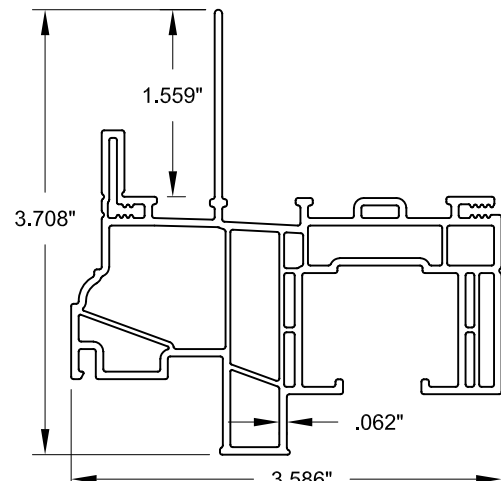
2 SILL, W/FLANGE



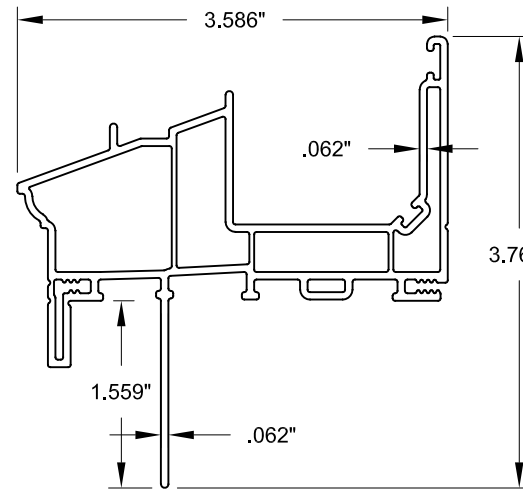
3 HEAD & JAMB, EQUAL LEG



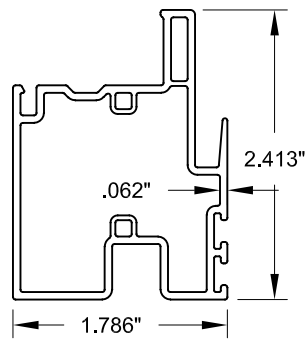
4 SILL, EQUAL LEG



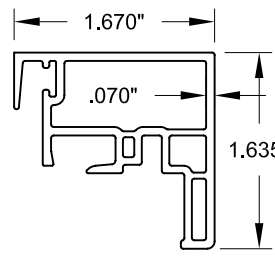
5 HEAD & JAMB, W/NAILING FIN



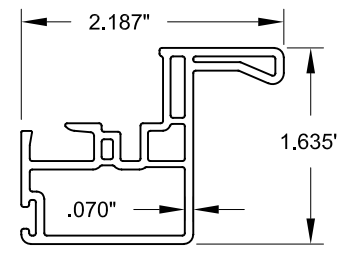
6 SILL, W/NAILING FIN



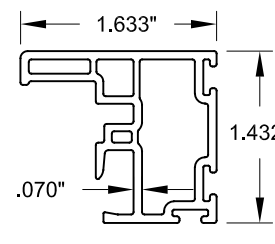
7 MEETING RAIL



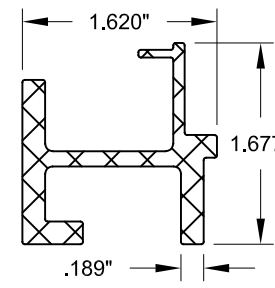
8 LOCK RAIL



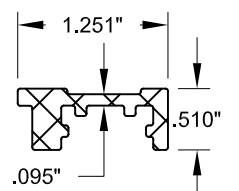
9 LIFT RAIL



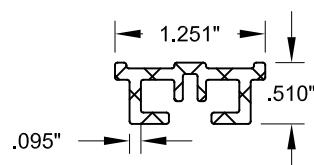
10 SASH STILE



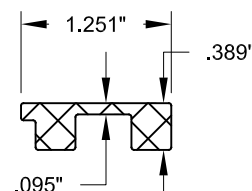
11 REINFORCEMENT (MEETING RAIL)



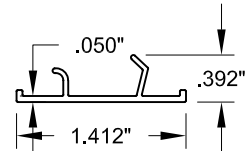
12 REINFORCEMENT (LOCK RAIL)



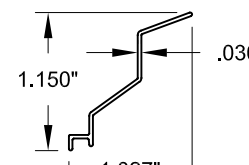
13 REINFORCEMENT (BOTTOM RAIL)



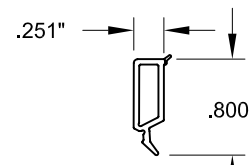
14 REINFORCEMENT (SASH STILE)



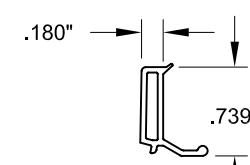
15 SASH STOP



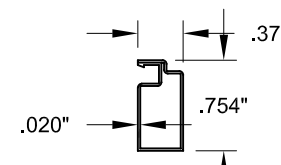
16 BALANCE COVER



17 FIXED LITE GLAZING BEAD



18 SASH GLAZING BEAD



70 SCREEN FRAME

TABLE 5:

| # | Part # | Description | Material |
|----|-----------|---|----------|
| 1 | 9465 | Head & Jamb, w/Flange | PVC |
| 2 | 9469 | Sill, w/Flange | PVC |
| 3 | 9465 | Head & Jamb, Equal Leg | PVC |
| 4 | 9469 | Sill, Equal Leg | PVC |
| 5 | 9455 | Head & Jamb, w/Nailing Fin | PVC |
| 6 | 9459 | Sill, w/Nailing Fin | PVC |
| 7 | 9477 | Meeting Rail | PVC |
| 8 | 9485 | Lock Rail | PVC |
| 9 | 9476 | Sash Lift Rail | PVC |
| 10 | 9438 | Sash Stiles | PVC |
| 11 | 6166 | Reinf. - Meeting Rail | 6063-T5 |
| 12 | 6165 | Reinf. - Lock Rail | 6063-T5 |
| 13 | 6163 | Reinf. - Lift Rail | 6063-T5 |
| 14 | 6164 | Reinf. - Stiles | 6063-T5 |
| 15 | 9473 | Sash Stop | PVC |
| 16 | 9468 | Balancer Cover | PVC |
| 17 | 9736 | Fixed Lite Glazing Bead | PVC |
| 18 | 9425 | Sash Glazing Bead | PVC |
| 30 | 1012 | Screw, #6 x 3/4" PFH | Steel |
| 31 | 1007 | Screw, #6 x 1-1/8" PFH | Steel |
| 32 | 1015 | Screw, #8 x 1/2" PTRUSS | Steel |
| 33 | 1003 | Screw, #6 x 1/2" PFH | Steel |
| 40 | 8096 | Keeper | Zinc |
| 41 | | Lock | |
| 42 | 8121 | MR Backing Plate | SS |
| 43 | 4006 | WSTP, .270" x .220" Polyfin | |
| 44 | 4008 | WSTP, .270" x .320" Polyfin | |
| 45 | 4012 | WSTP, Bulb Vinyl, .187" x .300" | Steel |
| 46 | 8205/8206 | Tilt Latch, L&R | Zinc |
| 47 | | Balance | |
| 48 | 8148 | Pivot Bar | SS |
| 49 | 8223 | Weep Cover | Nylon |
| 60 | | RGS 7700, Pecora 895, SikaFlex 552, Dow 791, 983 or 995 | |
| 61 | | Insulated Glass Spacer | |
| 62 | 7061 | Setting Block, 1/8" x 7/8" x 2" | EPDM |
| 70 | 6244 | Screen Frame | Aluminum |

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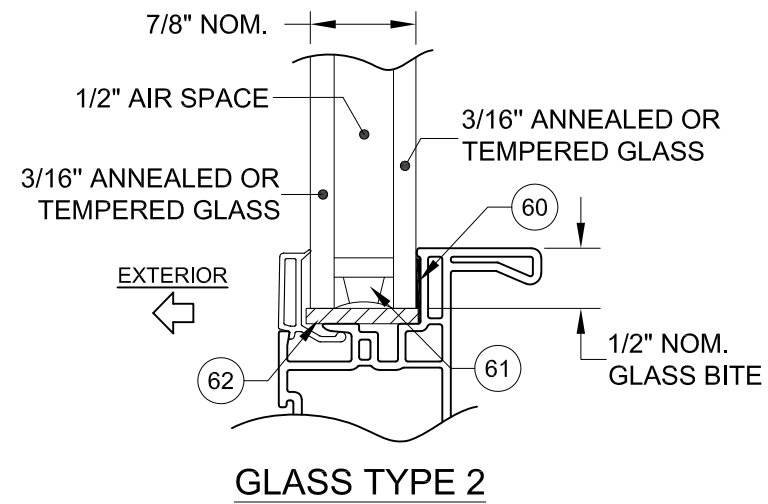
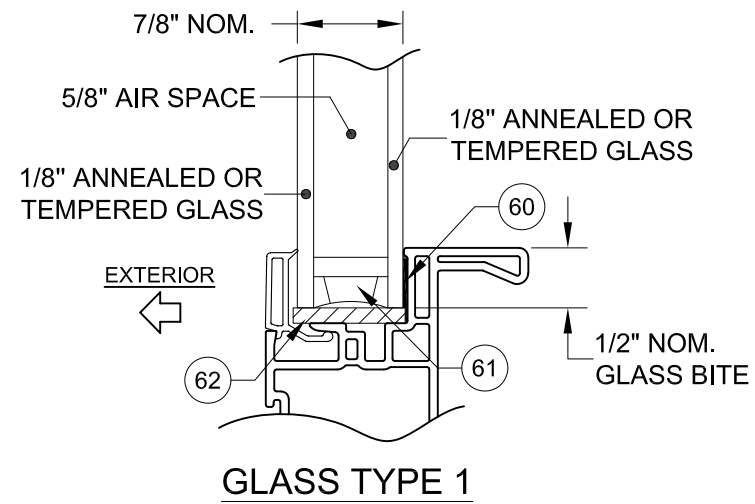
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HIALEAH, FL 33018

DATE: 04/14/23
DRAWN BY: LOGAN YODER
SERIES: SH800V-FPA-NI
NO. OF SHEETS: 5 OF 6
SHEET NO.: SH800V

VINYL SINGLE HUNG WINDOW (NI)
EXTRUSIONS & BOM

IMPACT RESISTANT WINDOWS & DOORS

ANTHONY LYNN MILLER
LICENSE
No. 58705
08/18/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



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| Rev.# | 08/17/23 |
| Date | 08/17/23 |
| Rev. | MINOR EDITORIAL CHANGES |
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| | | By | LOGAN YODER |
| Impact Resistant Windows & Doors CGI WINDOWS AND DOORS 3780 W. 104TH STREET HIALEAH, FL 33018 | VINYL SINGLE HUNG WINDOW (NI) | DWG No. | SH800V-FPA-NI |
| | | Sheet | 6 OF 6 |
| | GLASS DETAILS | Series | SH800V |

