3D VIEW OF RAILING WITH TYPE 1 - PICKET INFILL PANEL (42" Height shown, 48" Height Similar)

| TABLE 1 - RAILING MEMBERS | | | | |
|---|----------------------|-------------------------------------|-----------------------|-----------------------|
| MEMBER | ALLOY ⁽¹⁾ | DESIGNATION | OUT SIDE DIMENSION | WALL THICKNESS |
| Posts (Type "A" & "B") | 6061-T6 | RT 2x2x0.250 | 2.00" x 2.00" | 0.250" |
| Posts (Type "C") | 6061-T6 | Extrusion 1½x2½x0.125 | 1.50" x 2.50" | 0.125" |
| Top Plate (Type "C") | 6061-T6 | Extrusion (See Details) | 2¾" x 7" | Varies |
| Tan Dail | 6061-T6 | 2½" NPS (Sch. 10) | 2.875" | 0.120" |
| Top Rail | | 3" Round Top Cap Rail | 3.000" | 0.125" |
| | 6063-T5 | 2½" NPS (Sch. 10) | 2.875" | 0.120" |
| End Hoops | | 3.00 OD x 0.125 Wall | 3.000" | 0.125" |
| Tan Dail Jaint/Calies Classes | 6063-T5 | 2.50 OD x 0.125 Wall | 2.500" | 0.125" |
| Top Rail Joint/Splice Sleeves | | Top Cap Rail Inner Sleeve | 2.800" | 0.090" |
| Intermediate & Bottom Rail | 6061-T6 | RT 2x2x0.250 | 2.00" x 2.00" | 0.250" ⁽²⁾ |
| Int. & Bottom Rail Post Connection Sleeve | 6063-T5 | 1.50 OD x 0.125 Wall ⁽³⁾ | 1.500" | 0.125" |
| Handrail Joint/Splice Sleeves | 6063-T5 | 1" NPS (Sch. 40) | 1.315" | 0.133" |
| | 6063-T5 | 1.50 OD x 0.125 Wall | 1.500" | 0.125" |
| Handrails | 6061-T6 | 1½" NPS (Sch. 40) | 1.900" | 0.145" |
| Handrail Support Bar | 6061-T6 | ¾" Ø Round Bar | 0.750" | N/A |
| Pickets (Type 1 Infill Panel) | 6061-T6 | ¾" Ø Round Bar | 0.750" | N/A |
| Infill Panel Members (Types 2 - 5) | 6063-T5 | Varies (See Details) | Varies | Varies |

1. Shop Drawings are required, see Specification Section 515. 2. For bridge mounted railings, work this Index with Index 515-061 Bridge Bicycle/Pedestrian Railing (Aluminum) 3. Materials:

A. Structural Extrusions, Tube, Pipe and Bars: Table 1 and ASTM B221 or ASTM B429 a. Top, bottom and intermediate rail corner bends with maximum 4'-0" post spacing may be Alloy 6063-T6

B. Base Plates and Rail Caps: ASTM B209 Alloy 6061-T6

C. Perforated panels (Type 5) Alloy 3003-H14

D. Stainless steel (SS) screws: Type 316 or 18-8 Alloy

E. Aluminum screws: Alloy 2024-T4 or 7075-T73

F. Galvanized Steel Fasteners: coated in accordance with Specification Section 962. a. Hex Head Bolts: ASTM A 307

- 1. $\frac{7}{8}$ " diameter single bolt option, Grade 36
- 2. $\frac{7}{16}$ " diameter four bolt option, Grade 55
- b. Adhesive Anchors: ASTM F1554 fully threaded rods, Grade 55
- c. Hex Nuts: ASTM A563
- d. Flat Washers: ASTM F436

e. Plate Washers: ASTM A36 or ASTM A706 Grade 36. G. Shims: ASTM B209 Alloy 6061 or 6063

H. Bearing Pads: Provide 1/2" thick Plain, Fabric Reinforced or Fabric Laminated Bearing Pads meeting the requirements of

Specification Section 932 for Ancillary Structures. 4. Fabricate pickets and vertical panel elements parallel to the posts; except Type 2, 3 and 5 panel infills may be fabricated parallel to the longitudinal grade. Maintain a maximum clear opening of 5%" for standard installations and 3%" when a

4" sphere requirement is indicated in the Data Tables.

5. Locate railing expansion Joints between the posts on either side of the deck expansion joint. Maximum spacing between expansion joints is 35'-0". 6. Field splices are similar to the Expansion Joint Detail and may be approved by the Engineer to facilitate handling; but the top rail must be continuous across a minimum of two posts. 7. For intermediate and bottom horizontal rails, the screwed joints shown may be substituted with alternate joints shown in detail "K" for Post Type "A" & "B". 8. Make corners and changes in tangential longitudinal alignment with a 9" bend radius or terminate adjoining sections with mitered end sections when handrails are not required. 9. For changes in tangential longitudinal alignment greater than 45°, position posts a maximum of 2'-0" each side of the corner but not at the corner apex. 10. For curved longitudinal alignments, shop bend the top and bottom rails and handrails to match the alignment radius. 11. Handrails are required and must be continuous at landings for:

A. Grades Steeper than 5%,

Detail "A", Sheet 4

Detail "B", Sheet 4

Detail "K", Sheet 3

B. Three or more steps

CROSS REFERENCES:

12. Installation: Cutting of reinforcing steel is permitted for post installed anchors.

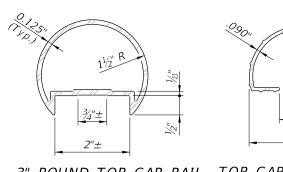
TABLE 1 NOTES:

(1) Alloy 6061-T6 or 6063-T52 & T6 may be substituted for Alloy 6063-T5.

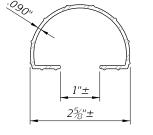
(2) 0.188" wall thickness permitted for rails with post spacings less than 5'-9".

(3) 1" NPS (Sch. 40) non-slit rail sleeves may be substituted when welded

connection Detail "K" is utilized.



 \geq DESCRIPTION:



3" ROUND TOP CAP RAIL TOP CAP RAIL INNER SPLICE SLEEVE

ALTERNATE TOP RAIL SECTION

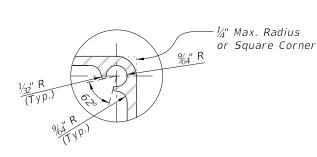
2"

ALTERNATIVE BOTTOM & INTERMEDIATE RAIL SECTION FOR TYPE 3, 4 & 5 RAILINGS

FDOT

See Screw Slot Detail (Тур.) $1\frac{1}{2}''$

POST TYPE "C" SCREW SLOT SECTION



SCREW SLOT DETAIL

PEDESTRIAN/BICYCLE RAILING

FY 2024-25

STANDARD PLANS

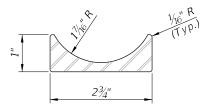
LAST

REVISION

11/01/18

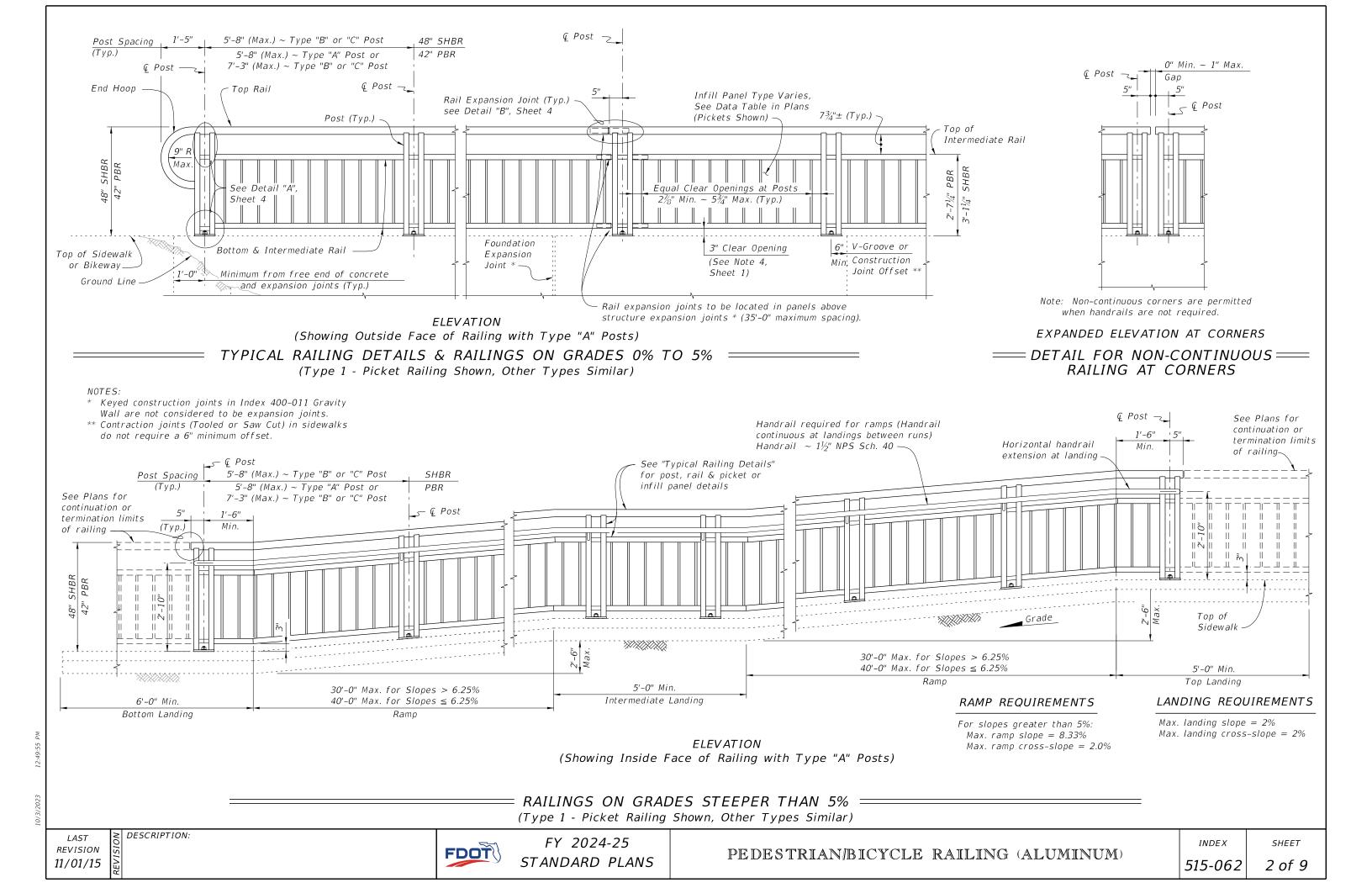


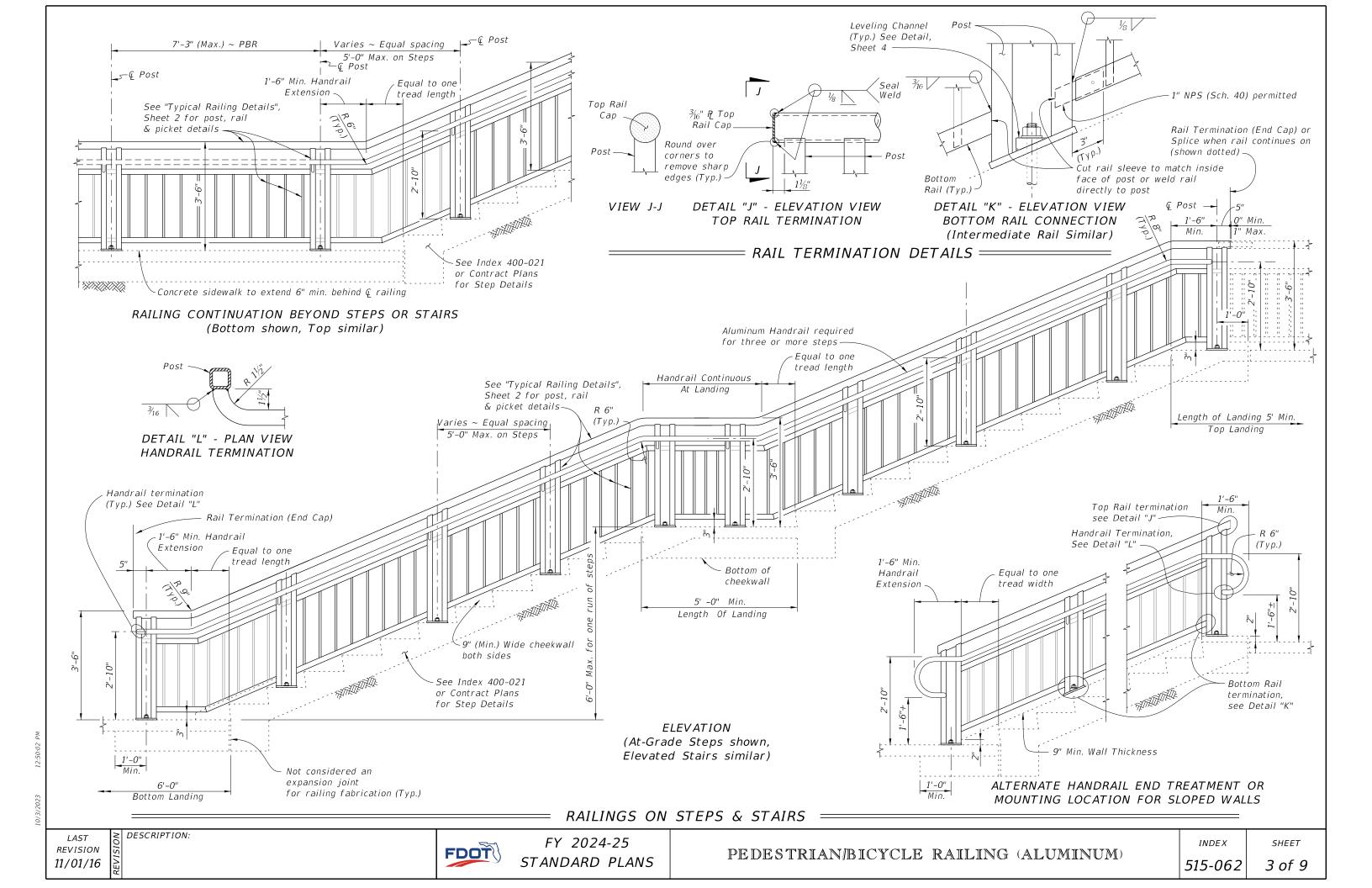
= NOTES =

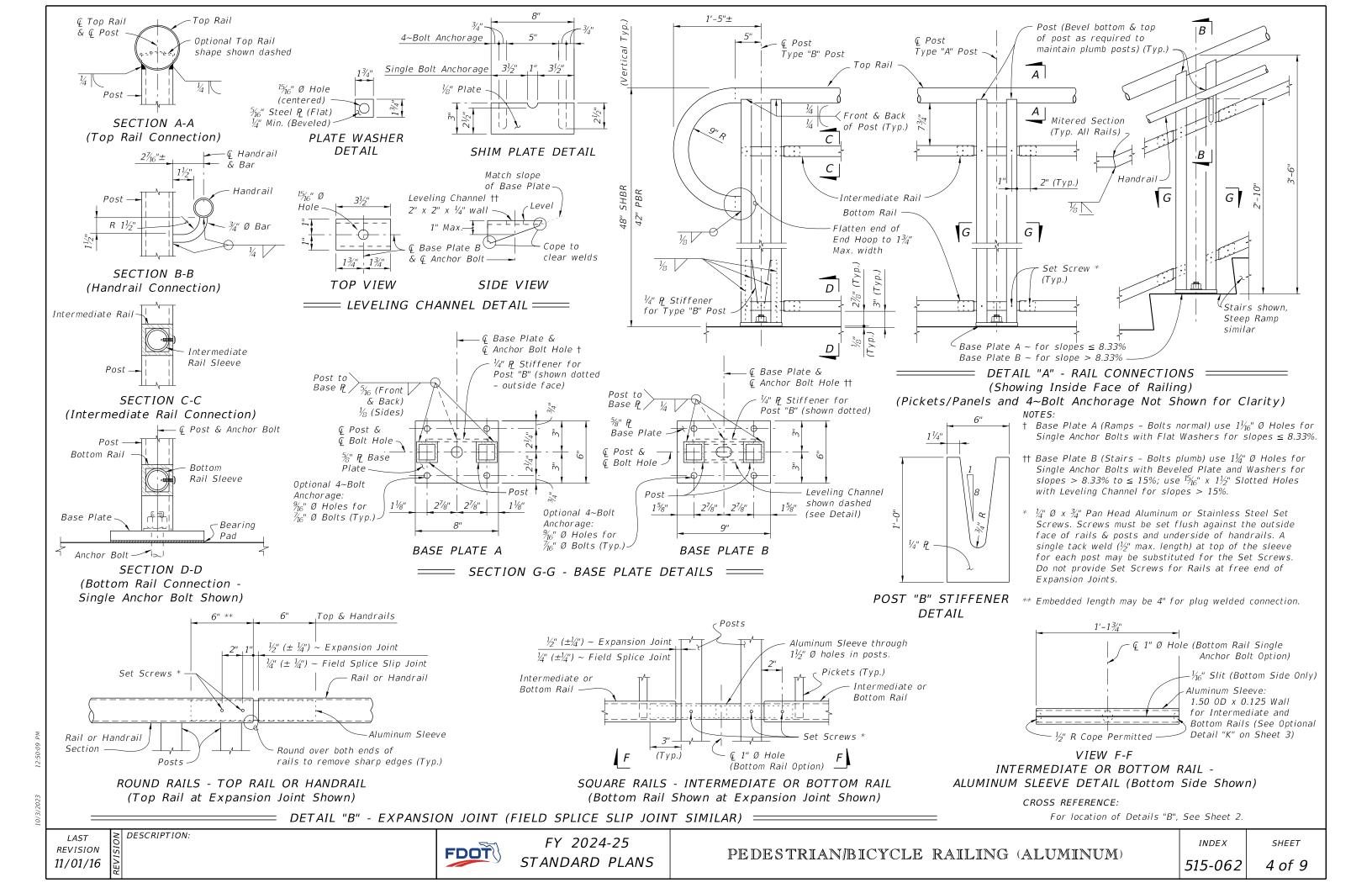


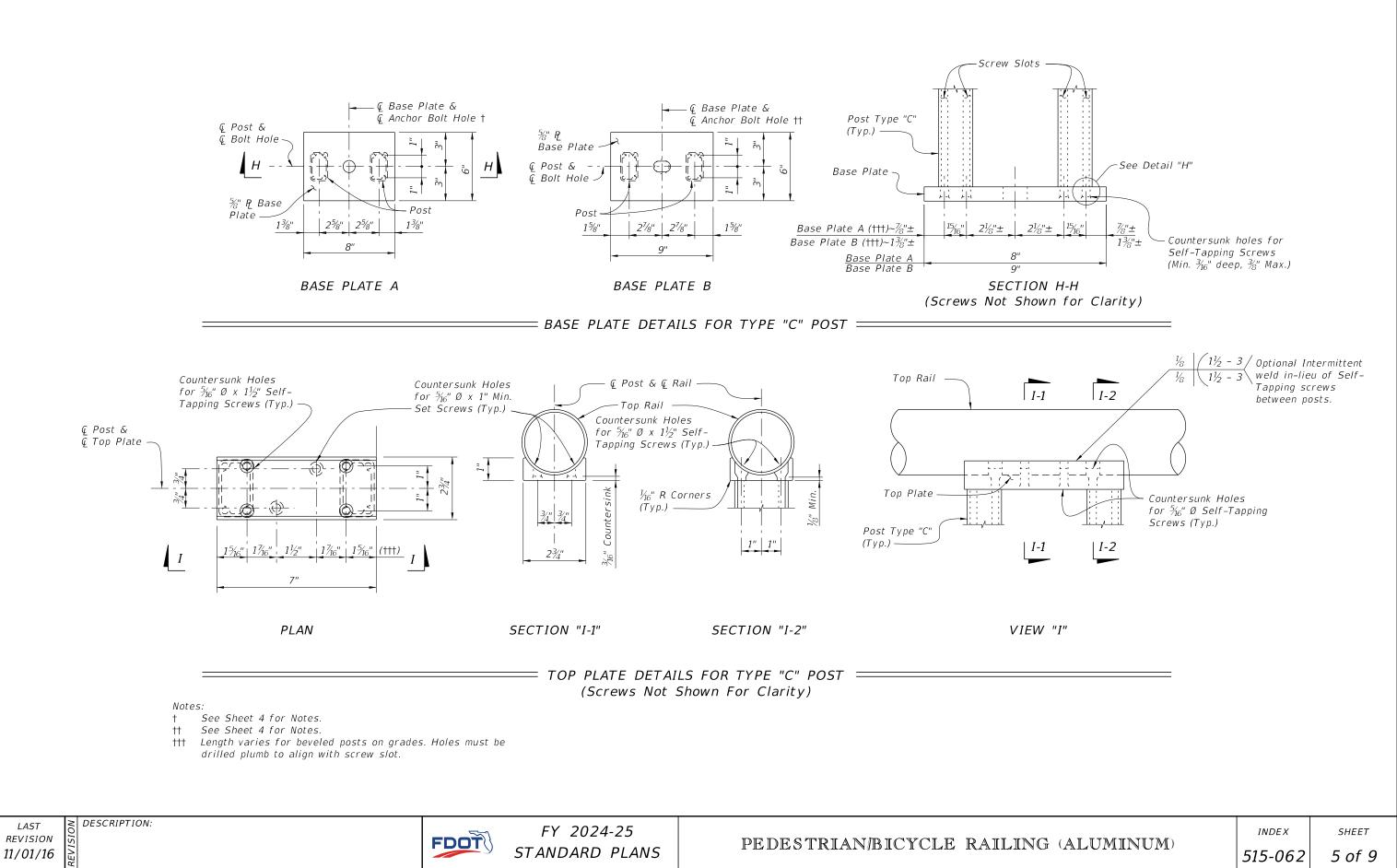
OPTIONAL TOP PLATE EXTRUSION SECTION (POST TYPE "C")

| (A T TTNÆTENTTNÆ) | INDEX | SHEET |
|--------------------|---------|--------|
| (ALUMINUM) | 515-062 | 1 of 9 |

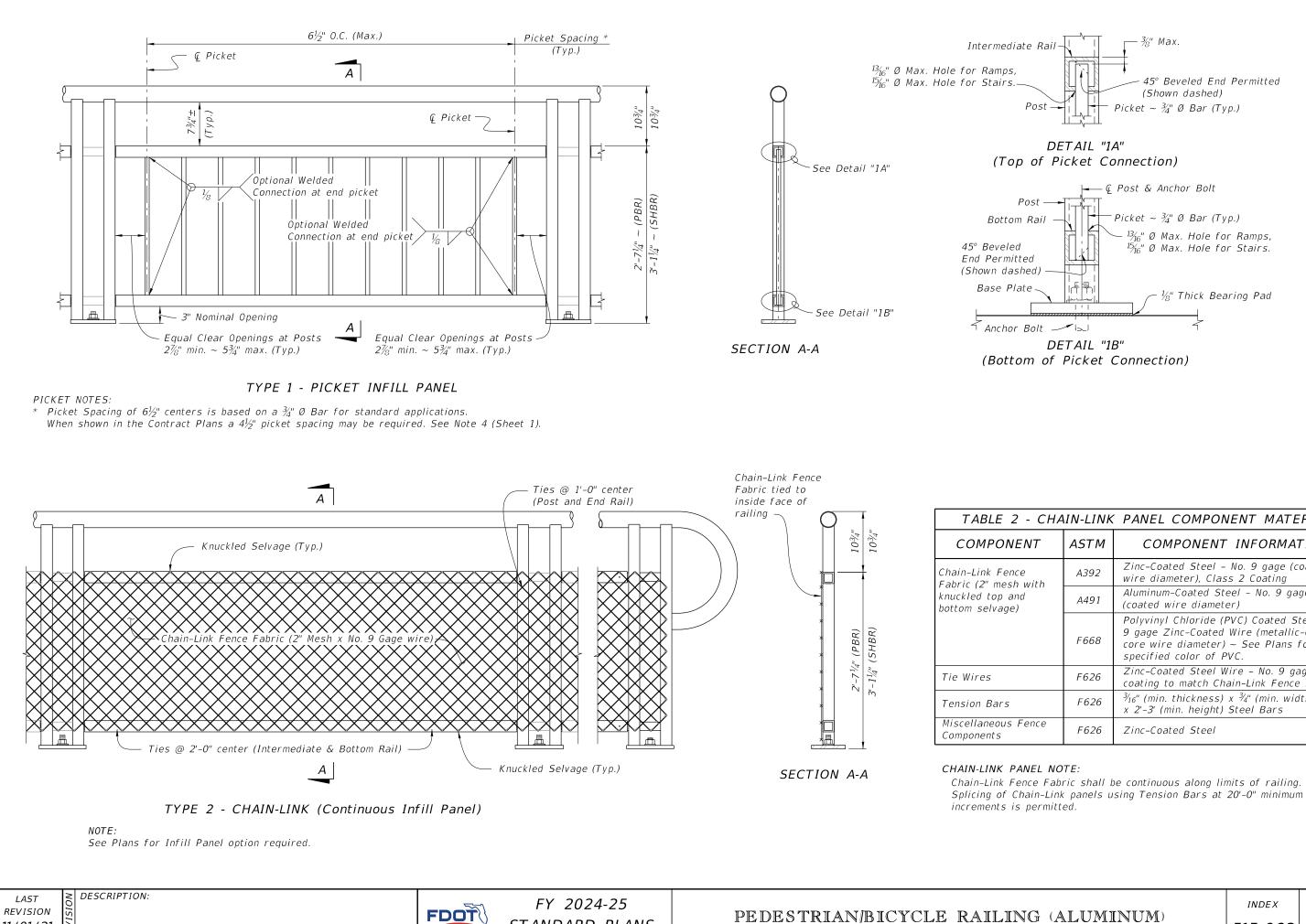








LAST REVISION



STANDARD PLANS

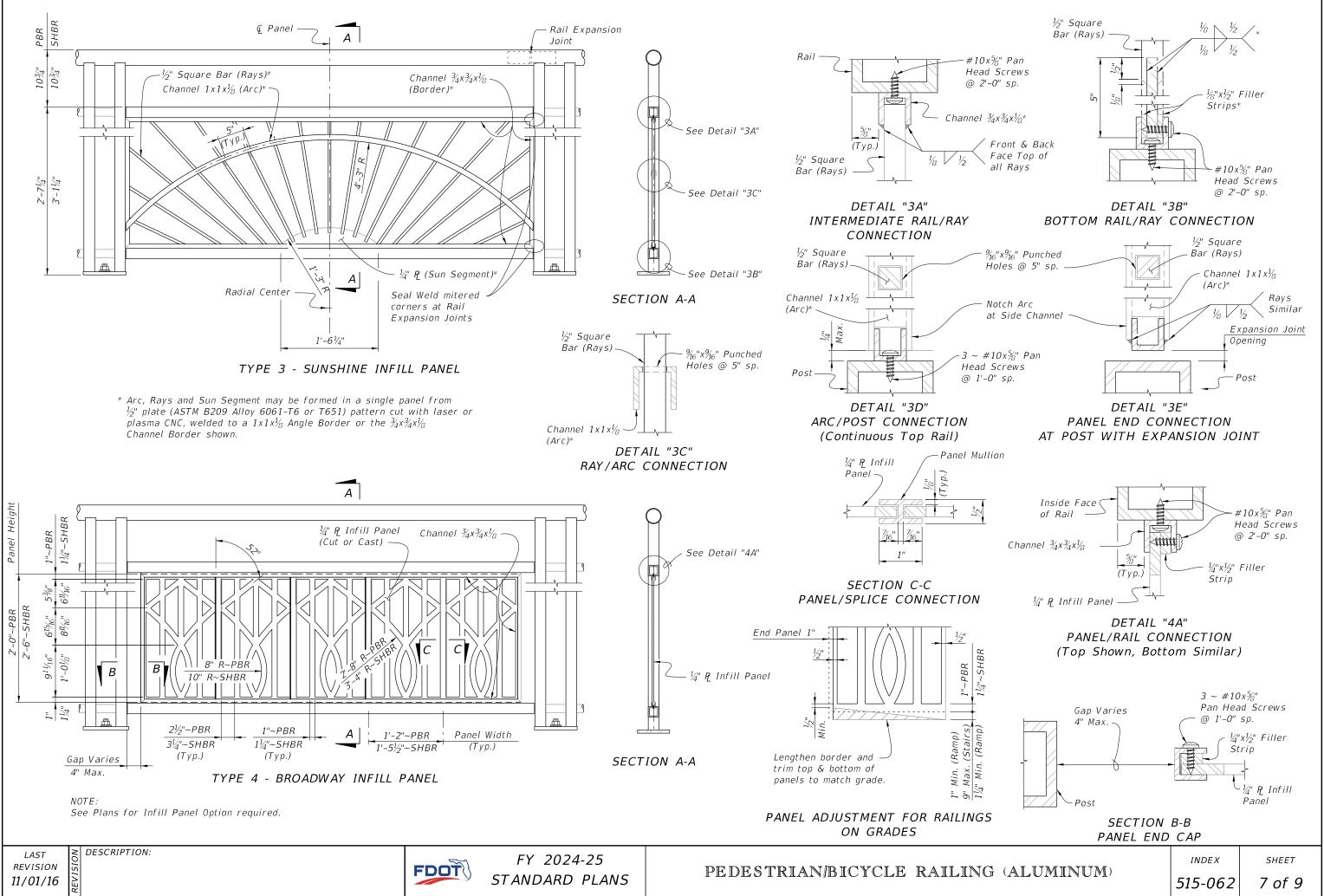
11/01/21

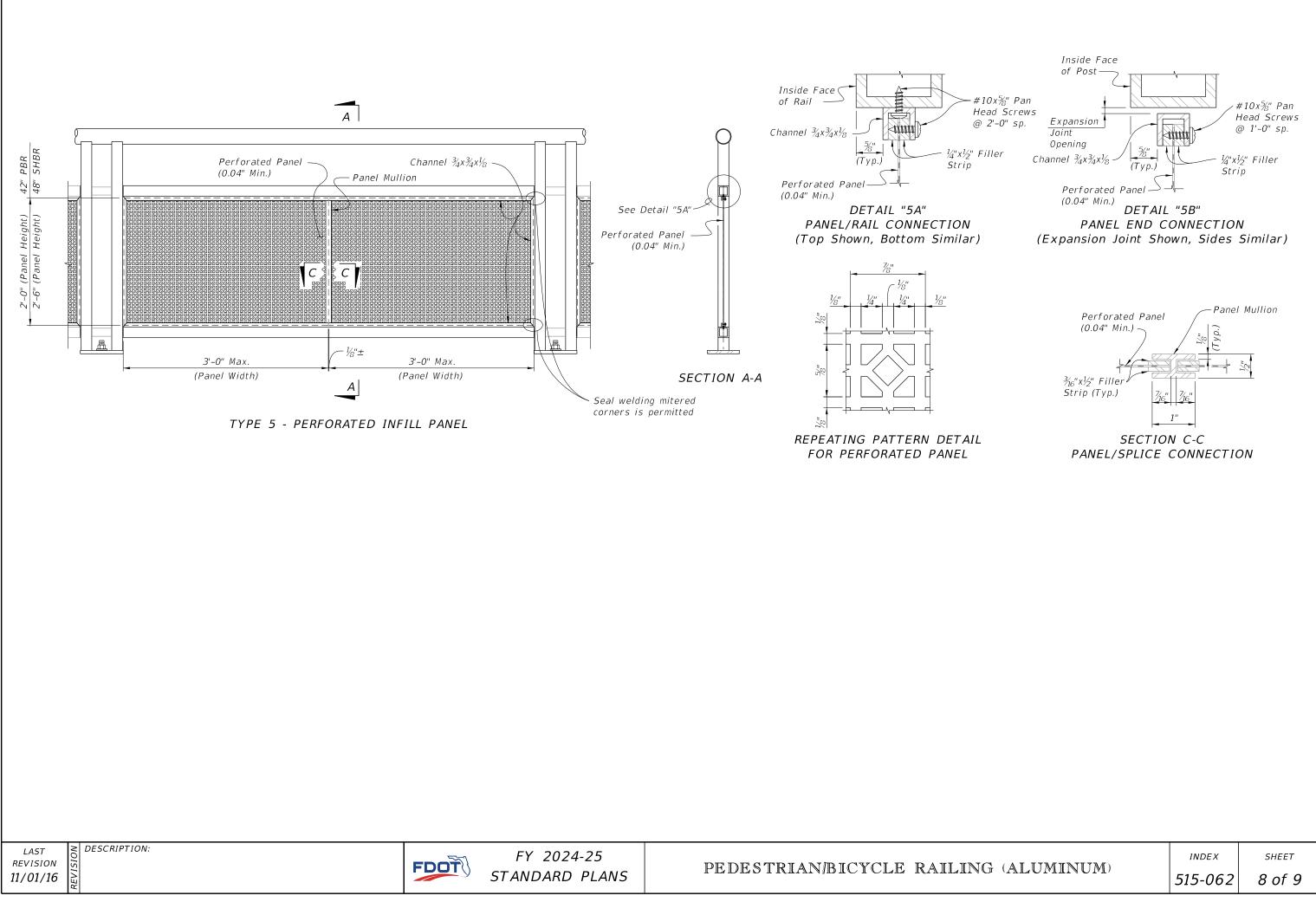
| CHAIN-LINK PANEL COMPONENT MATERIALS | | | | |
|--------------------------------------|------|---|--|--|
| Г | ASTM | COMPONENT INFORMATION | | |
| th | A392 | Zinc-Coated Steel – No. 9 gage (coated wire diameter), Class 2 Coating | | |
| | A491 | Aluminum-Coated Steel – No. 9 gage (coated wire diameter) | | |
| | F668 | Polyvinyl Chloride (PVC) Coated Steel – No. 9 gage Zinc-Coated Wire (metallic-coated core wire diameter) ~ See Plans for specified color of PVC. | | |
| | F626 | Zinc-Coated Steel Wire – No. 9 gage with coating to match Chain-Link Fence Fabric. | | |
| | F626 | ¾ ₁₆ " (min. thickness) x ¾" (min. width) x 2'-3' (min. height) Steel Bars | | |
| ce | F626 | Zinc-Coated Steel | | |

515-062

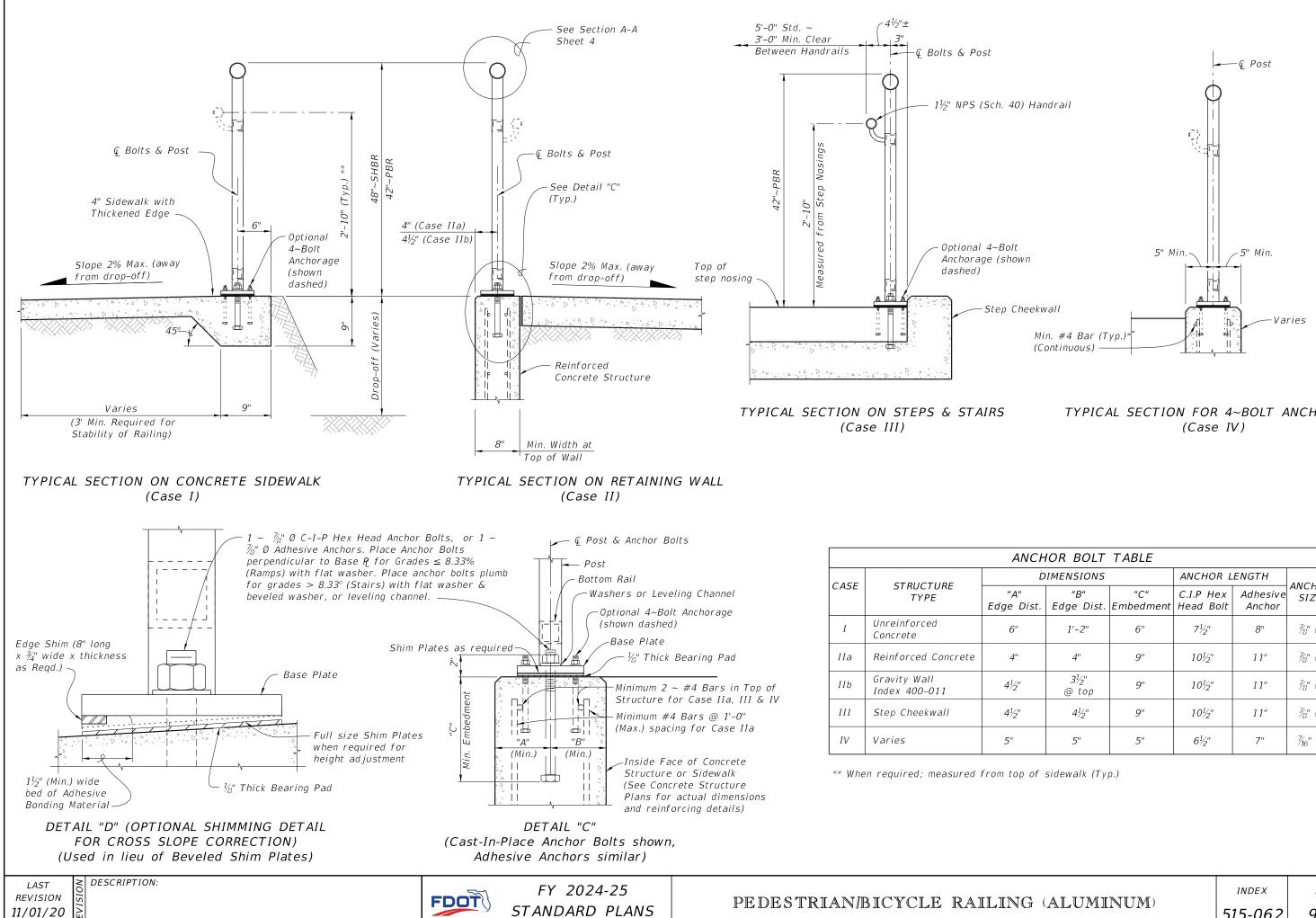
SHEET

6 of 9









TYPICAL SECTION FOR 4~BOLT ANCHORAGE

| CHOR BOLT TABLE | | | | | |
|-----------------|-------------------|------------------|------------------------|--------------------|----------------------|
| DIMENSIONS | | ANCHOR LENGTH | | | |
| st. | "B" Edge Dist. | "C" Embedment | C.I.P Hex Head Bolt | Adhesive Anchor | ANCHOR SIZE |
| | 1'-2" | 6" | 7½" | 8" | 7∕8"Ø |
| | 4" | 9" | 10½" | 11" | 7∕8"Ø |
| | 3½" @ top | 9" | 10½" | 11" | 7∕8"Ø |
| | 4½" | 9" | 10½" | 11" | 7∕8"Ø |
| | 5" | 5" | $6^{1\!/\!\!/}_{2}$ " | 7" | 7∕ ₁₆ " Ø |

| / А Т ТТАЛГИ ТТА Л () | INDEX | SHEET |
|------------------------------|---------|--------|
| (ALUMINUM) | 515-062 | 9 of 9 |