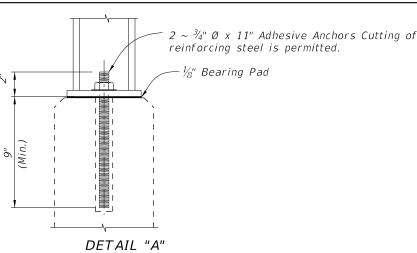


POST "B1" DETAILS FOR SHBR ON TRAFFIC RAILING (INDEX 521-423) AND FOR PEDESTRIAN/BICYCLE RAILING (PBR) ON CONCRETE PARAPETS (INDEX 521-820) POST "B2" DETAILS FOR SHBR ON TRAFFIC RAILING (INDEX 521-427 AND 515-021)

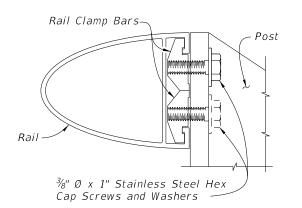
4½" (Index 515-021) 6½" (Index 521-423) Ε 11/4" Rail Clamp Bar ¾" Ø x 1" Stainless Steel Hex Cap Screw 7∕<sub>16</sub>" Ø Holes & Washer (Typ.)Round over top corners 1/4" R (Typ.)Post ~ WF 5 x 6.49 ½" x 6" x 6" Base Plate Post Post  $rac{1}{8}$ " Bearing Pad Ε  $2 \sim \frac{3}{4}$ " Ø x 10" C-I-P Hex Head Anchor Bolts with hex nuts & washers or See Detail "A". \_ Face of Traffic Railing SECTION E-E **ELEVATION** OF POST "C" (RAIL NOT SHOWN)

POST "C1" DETAILS FOR PEDESTRIAN/BICYCLE RAILING (PBR) ON TRAFFIC RAILINGS (INDEX 521-423) POST "C2" DETAILS FOR PBR ON TRAFFIC RAILING (INDEX 521-427 & 515-021)



6" <sup>7</sup>⁄<sub>8</sub>" Ø Holes for Anchor Bolts (Typ.) H-Beam Post ~ WF 5 x 6.49

SECTION F-F BASE PLATE DETAIL



RAIL TO POST CONNECTION DETAIL

## CROSS REFERENCES:

For post spacing on Concrete Parapets see Index 521-820.

For post spacing on Traffic Railings see Index 515-021.

For Rail Details see Sheet 2.

For Railing Notes and Tapered End Transition Details see Sheet 3.

FDOT

FY 2024-25 STANDARD PLANS

PEDESTRIAN/BICYCLE

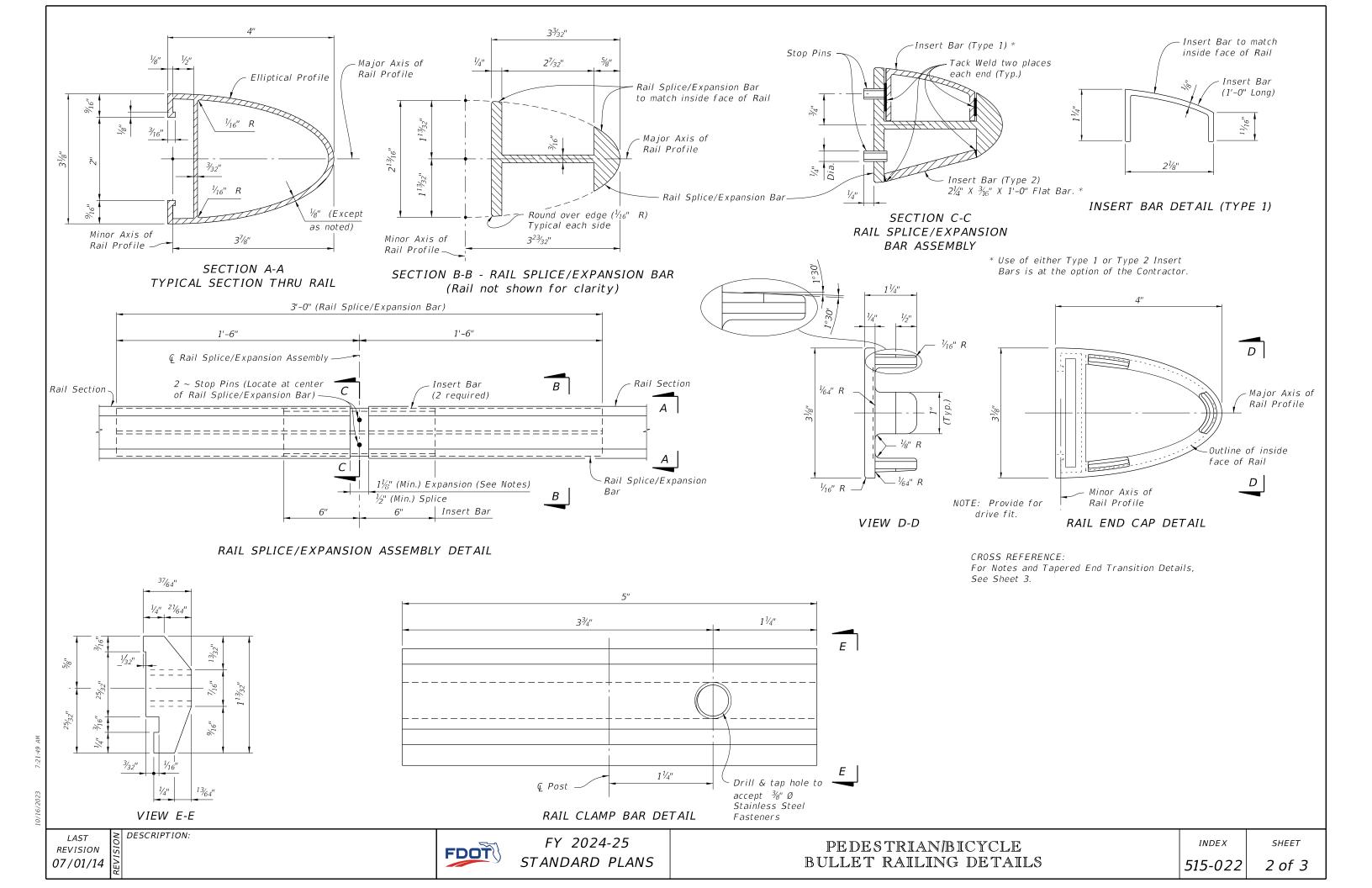
INDEX

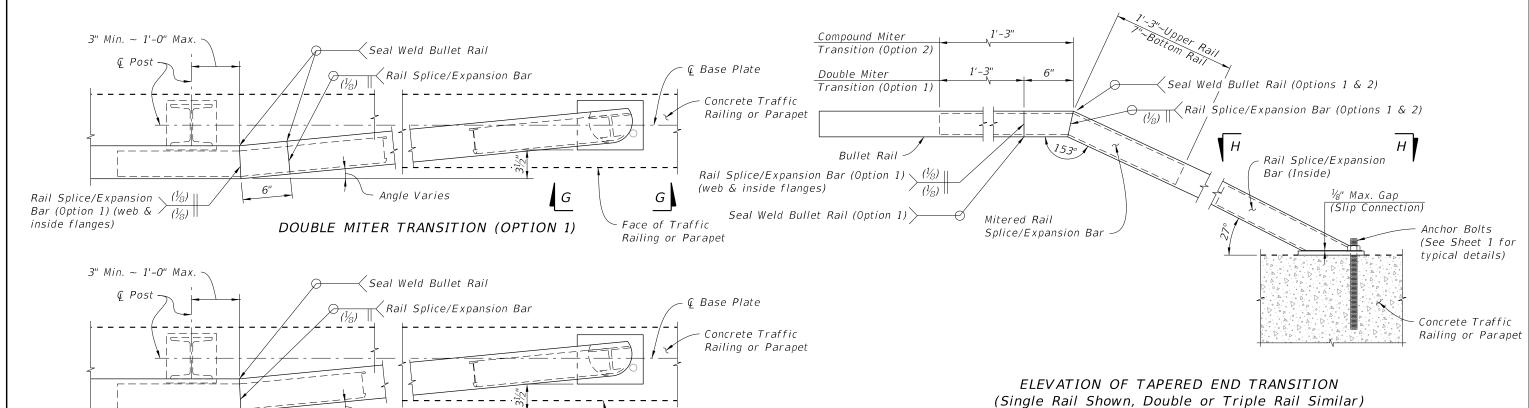
SHEET

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ALTERNATE ANCHOR BOLT

(Concrete Parapet Shown, Traffic Railings Similar)





## PARTIAL PLAN OF TAPERED END TRANSITIONS

Angle Varies

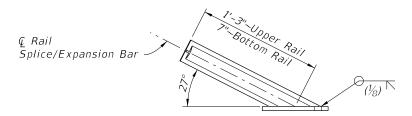
G

Face of Traffic

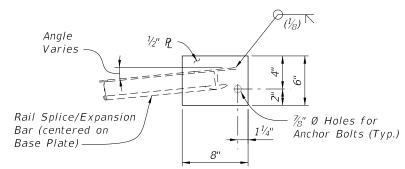
Railing or Parapet

(Single Rail Shown, Double or Triple Rail Similar)

COMPOUND MITER TRANSITION (OPTION 2)



## VIEW G-G TRANSITION BASE PLATE (Bullet Rail not shown for Clarity)



VIEW H-H TRANSITION BASE PLATE (Bullet Rail not shown for Clarity)

## RAILING NOTES:

- Work this Index with Index 521-423, 521-427, 521-428, 521-820 and 515-021 and Specification Section 515.
- Shop Drawings: Submit shop drawings prior to fabrication. A. Include post and rail splice/expansion assembly location for curved alignments with radii < 40 feet and for all end terminations.
- - A. Supply Aluminum materials In accordance with Specification Section 965 and the following: Wrought Aluminum Post: ASTM B221, Alloy 6061-T6 or 6351-T5 Rail End Cap: ASTM B26 sand cast aluminum alloy 356.0-F Plate and Bars: ASTM B209 Alloy 6061-T6 Rails: ASTM B221 Alloy 6061-T6 or 6351-T5. Stop Pins: Press-fit aluminum or stainless steel pins or tubes
  - B. Stainless Steel Fasteners: ASTM F-593, Alloy Group 2 (316).
  - C. Bearing Pads: Plain or Fiber Reinforced meeting Specification Section 932 for Ancillary Structures.
  - D. Anchor Bolts: Galvanized ASTM A307 Grade 36 Hex Head. Galvanized ASTM 1554 Grade 55 Threaded rods for Adhesive Anchors.
- 4. Layout.
  - A. Posts shall be uniformly spaced with reasonable consistency.
  - B. Tapered End Transitions are required at the terminus of the approach ends of Bullet Railing mounted on a Traffic Railing. Bullet Railings on concrete parapets shielded by a traffic railing do not require Tapered End Transitions unless noted otherwise in the Plans.
  - C. Adjust post spacing's to avoid parapet obstacles, such as armor expansion plates, by 9 inches minimum.
  - D. Rails shall be continuous over a minimum of 3 posts, except that lengths less than 12 feet need only be continuous over 2 posts.
  - E. Space splices at 40 feet maximum. Splice all rails in a given railing section at about the same center line.
  - F. Provide rail expansion assemblies in panels between posts on either side of a bridge expansion joint. Rail expansion assemblies are similar to the rail splice assemblies with increased space at the expansion assembly to allow for movement equal to 1.5 times the bridge joint opening or 1" greater than the expected joint movement.
- - A. Set rails near bridge expansion joints to allow for expected movement.
  - B. Cutting of reinforcing steel is permitted for post installed anchors.
- 6. Payment: Includes the full cost of installed bullet railing. Cost of the Concrete Parapet or Traffic Railing is separate.

REVISION 11/01/22

DESCRIPTION:

FY 2024-25 STANDARD PLANS

PEDESTRIAN/BICYCLE BULLET RAILING DETAILS INDEX

SHEET

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