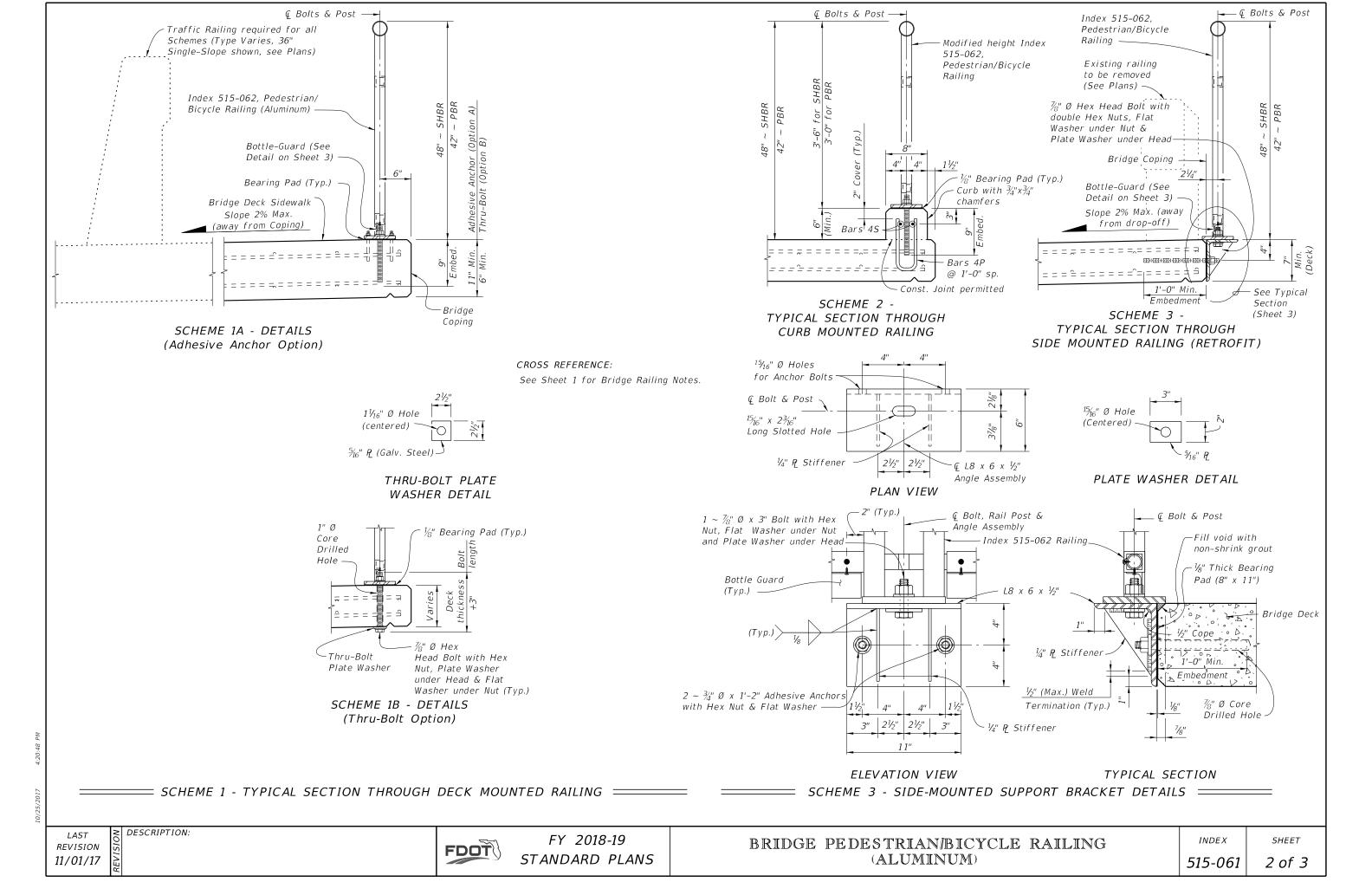
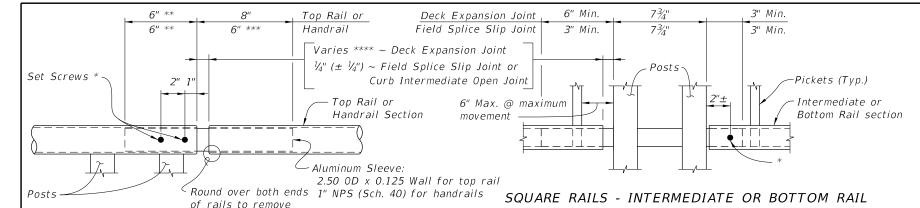


- D. Pre-cured Silicone Sealant: Specification Section 932
- E. Bearing Pads: Provide  $\frac{1}{2}$ " thick Plain, Fabric Reinforced or Fabric Laminated pads meeting the requirements of Specification Section 932 for Ancillary Structures.
- 4. See Structures Plans, Superstructure Sheets for bridge information including concrete type, deck expansion joint locations and orientations, and thermal movement.
- 5. Railings:
  - A. For thermal movement greater than 4" (up to a maximum of 5"), clear opening between adjacent pickets, or panels at Rail Expansion Joints above Deck Joints must be reduced to  $3\frac{1}{2}$ .
  - B. For treatment of railings on skewed bridges see Index 521-427.
- 6. Curbs:
  - A. Match open curb joints at Deck Expansion Joint locations to the deck joint dimension.
  - B. Construct Concrete Curb (Scheme 2) vertical with the top surface finished level transversely. See Concrete Curb Details Sheet 3.
  - C. Provide  $\frac{3}{4}$ " Intermediate open joints in curbs coinciding with the  $\frac{3}{4}$ " joints in the traffic railing.
- 7. Payment: Support bracket (Scheme 3) is incidental to the cost of railing. Curb concrete and reinforcing steel (Scheme 2) are included in the bridge deck quantities.

LAST **REVISION** 11/01/17 DESCRIPTION:



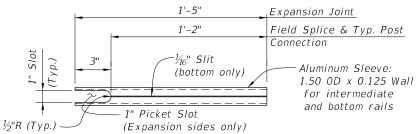


## ROUND RAILS - TOP RAIL OR HANDRAIL

\*  $\frac{1}{4}$ " Ø x  $\frac{3}{4}$ " Pan Head Aluminum (Alloy 7075-T73) or Stainless Steel (Type 316 or 18-8 Alloy) Set Screws along outside face of railing Set screws must be set flush against the rail surface. A 🚜 Ø plug weld may be substituted for the two set screws at expansion joints.

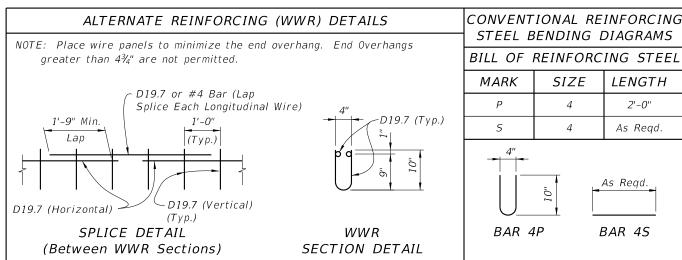
sharp edges (Typ.)

- \*\* Embedded length may be 4" for plug welded connection.
- \*\*\* Increase handrail sleeve embedment to 8" for Expansion Joint openings greater than 2".
- \*\*\*\* Expansion Joint opening shall match the clear opening in the deck joint but not greater than 3".



INTERMEDIATE OR BOTTOM RAIL - ALUMINUM SLEEVE DETAIL (Bottom Side Shown)

## DETAIL "B" EXPANSION JOINT (FIELD SPLICE SIMILAR) =



#### CURB REINFORCING STEEL NOTES:

- 1. All bar dimensions in the bending diagrams are out to out.
- 2. The reinforcement for the curb on a retaining wall shall be the same as detailed for an 8" deck.
- 3. All reinforcing steel at the open joints shall have a 2" minimum cover.
- 4. Bars 4S may be continuous or spliced at the construction joints. Bar splices for Bars 4S shall be a minimum of 1'-8".
- 5. Deformed WWR meeting the requirements of Specifications Section 931 may be used in lieu of all Bars 4P and 4S.

Pre-cured Silicond Sealant (4" wide)		nfer (Typ.
over.		
n 931	2"	

### DETAIL "A" - SECTION AT INTERMEDIATE OPEN JOINT

# **OUANTITIES (SCHEME 2)**

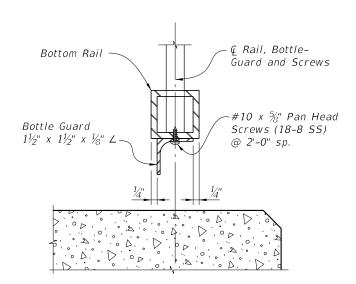
40			
ITEM	UNIT	QUANTITY	
Concrete	CY/LF	0.0124	
Reinforcing Steel	LB/LF	4.01	

ESTIMATED CONCRETE CURB

#### INTERMEDIATE JOINT SEAL NOTE:

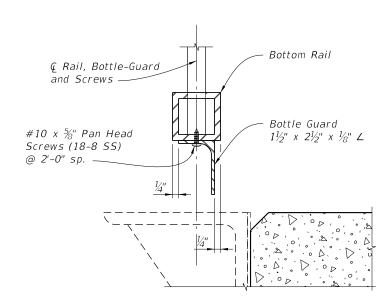
At Intermediate Open Joints, seal the lower 6" portion of the open joint with Pre-cured Silicone Sealant. Apply sealant prior to any Class V finish coating and remove all curing compound and loose material from the surface prior to application of bonding agent.

#### SCHEME 2 - CONCRETE CURB DETAILS =



TYPICAL SECTION THROUGH BOTTOM RAIL (Post Not Shown for Clarity)

= SCHEME 1 - BOTTLE GUARD DETAIL =



TYPICAL SECTION THROUGH BOTTOM RAIL (Post Not Shown for Clarity)

= SCHEME 3 - BOTTLE GUARD DETAIL =

DESCRIPTION:

**FDOT** 

FY 2018-19 STANDARD PLANS

BRIDGE PEDESTRIAN/BICYCLE RAILING (ALUMINUM)

INDEX

SHEET

**REVISION** 11/01/16