**ALTERNATE REINFORCING (WELDED WIRE REINF.) DETAILS**

**SPICE DETAIL (Between WWR Sections)**

- D19.7 or #4 Bar (Lap Splice Each Longitudinal Wire)
- D19.7 (Typ.)
- D19.7 (Horizontal)
- D19.7 (Vertical)

**WELDED WIRE REINFORCEMENT (WWR)**

**BILL OF REINFORCING STEEL**

**MARK** | **SIZE** | **LENGTH**
--- | --- | ---
F | 4 | 2'-0"

**PLATE WASHER DETAIL**

**PLATE WASHER DETAIL**

**REVISIONS**

**DATE** | **DESCRIPTION** | **NOTE**
--- | --- | ---
01/01/11 SJN | Added Bottle-Guard Details; Changed DETAIL "A" - Scheme 3 - Support Bracket Detail and Index No. 860 to 862.

**SCHEME 2 - CONCRETE CURB DETAILS**

**CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS**

**BILL OF REINFORCING STEEL**

**MARK** | **SIZE** | **LENGTH**
--- | --- | ---
F | 4 | 2'-0"

**SCHEME 3 - SIDE MOUNTED SUPPORT BRACKET DETAILS**

**CROSS REFERENCE:**

See Sheet 3 for Bridge Railing Notes.

**REINFORCEMENT (WELDED WIRE REINF.) DETAILS**

**PLATE WASHER DETAIL**

**SCHEME 3 - BOTTLE GUARD DETAIL**

**SCHEME 1 - BOTTLE GUARD DETAIL**

**SCHEME 3 - BOTTLE GUARD DETAIL**

**SCHEME 2 - CONCRETE CURB DETAILS**

**INTERMEDIATE JOINT SEAL NOTE:**

At Intermediate Open Joints, seal the lower 6" portion of the open joint with Pre-cured Silicone Sealant in accordance with Section 932 of the Specifications. 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.
**Bridge Railing Notes:**

**Applicability Note:** Railing is limited to use on bridges with an expansion joint thermal movements not exceeding 5". Scheme 3 is limited to bridge retrofit applications where additional sidewalk width is required.

**Railing Details:** For railing fabrication and installation details and notes see Index No. 862, except that railing shall be fabricated and installed normal to the profile grade longitudinally and vertically transversely, unless otherwise shown in the contract plans.

**Concrete Curb (Scheme 2):** Construct concrete curb vertical with the top surface finished level transversely. Concrete class shall be the same as the bridge deck.

**Side-Mounted Support Bracket (Scheme 3):** L-Shape and stiffener plate shall be in accordance with ASTM B209, Alloy 6061-T6. Welding shall be in accordance with the American Society of Structural Welding Code (Aluminium) ANSI/AWS D1.2 (current edition). Filler metal shall be either ER4043, ER5183, ER5356 or ER5556. Nondestructive testing of welds is not required.

**Payment:** Railing shall be paid per linear foot (item no. 515-2-abb) for the aluminum railing and include the cost of support brackets (Scheme 3). Concrete and reinforcing steel quantities for the concrete curb (Scheme 2) will be included in the bridge deck plan quantity pay items. Payment will be paid quantity measured as the length along the center line of the top rail and includes rails, posts, pickets, rail splice assembly, base plates, bottle guards, anchor bolts, nuts, washers, resilient or neoprene pads and all incidental materials and labor required to complete the installation of the railing.