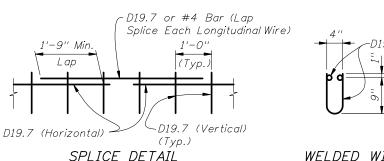


# ALTERNATE REINFORCING (WELDED WIRE REINF.) DETAILS

NOTE: Place wire panels to minimize the end overhang. End Overhangs greater than  $4\frac{3}{4}$ " are not permitted.



P S

D19.7 (Typ.)

WELDED WIRE REINFORCEMENT (WWR)

CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS BILL OF REINFORCING STEEL MARK SIZE **LENGTH** 2'-0" 4 As Read. 4" As Read. BAR 4P BAR 4S

#### CURB REINFORCING STEEL NOTES:

(Between WWR Sections)

- 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'-9".
- 5. At the option of the Contractor Welded Wire Reinforcement (WWR) may be used in lieu of all Bars 4P and 4S. Welded Wire Reinforcement shall conform to ASTM A497.

3"	
	- Mortar Plug
<u> </u>	`
	J

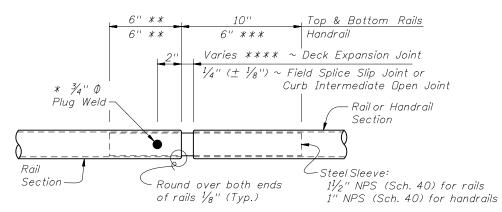
#### QUANTITIES (SCHEME 2) ITEM UNIT QUANTITY Concrete CY/LF 0.0124 LB/LF Reinforcing Steel 4.01

ESTIMATED CONCRETE CURB

# DETAIL "A" - SECTION AT INTERMEDIATE OPEN JOINT

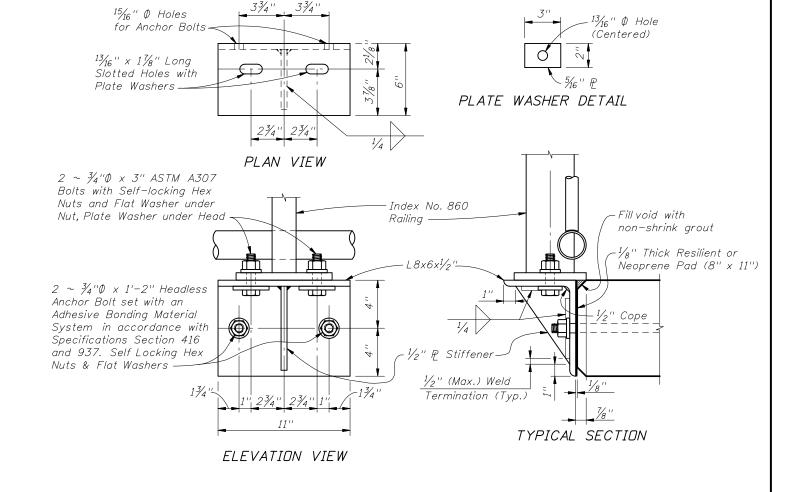
At Intermediate Open Joints, the lower 3" portion of the open joint shall be plugged by filling it with mortar in accordance with Section 400 of the Specifications.

# = SCHEME 2 - CONCRETE CURB DETAILS ====



# DETAIL "B" - EXPANSION JOINT (FIELD SPLICE SLIP JOINT SIMILAR)

- \* At the Contractor's option 2  $\sim \frac{1}{4}$ "  $\emptyset$  x  $\frac{3}{4}$ " Pan Head Aluminum (Alloy 2024-T4 or 7075-T73) or Stainless Steel (Type 316) Set Screws at 2" spacing along outside face of railing may be substituted for the  $\frac{3}{4}$ "  $\emptyset$  plug weld.
- \*\* 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".



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BRIDGE PICKET RAILING NOTES:

APPLICABILITY NOTE: Bridge Picket 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. 860, except that railing shall be fabricated and installed normal to the Profile Grade longitudinally and vertical transversely.

CDNCRETE 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 (Aluminum) ANSI/AWS D1.2 (current edition). Filler metal shall be either 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 plan quantity measured as the length along the center line of the top rail, and includes rails, posts, pickets, rail splice assembly, base plates, anchor bolts, nuts, washers, resilient or neoprene pads and all incidental materials and labor required to complete installation of the railing.



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BRIDGE PEDESTRIAN/BICYCLE PICKET RAILING (ALUMINUM)

Index No. 861