

BRIDGE RAILING CONCRETE TRANSITION BARRIER

****From Plymouth ER BRS 0149(5)**

- xx. DESCRIPTION. This work shall consist of furnishing and erecting cast-in-place concrete transition barrier for bridge railing at the locations and the lines and grades shown on the Plans, and as directed by the Engineer.

The work under this Section shall be performed in accordance with these provisions, the Plans, and Sections 501 and 525 of the Standard Specifications.

- xx. MATERIALS. Materials shall meet the following requirements:

- (a) Concrete. Concrete shall meet the requirements of Section 501 for Self-Consolidating Concrete (SCC).
- (b) Reinforcing Steel. Reinforcing Steel shall meet the requirements of Section 507 for Reinforcing Steel, Level I.
- (c) Connection Plate. Connection plate for anchoring approach railing terminal connector shall meet the requirements of Subsection 714.02.

- xx. FABRICATION. Fabrication tolerances for all cast-in-place concrete transition barriers, regardless of the method of construction, shall conform to the following finished tolerances:

Bar Reinforcement Cover	-0, + ½ inch
Width (Top)	-0, + ¼ inch
Width (Bottom)	-0, + ½ inch
Surface Straightness	½ inch in 20 feet
Vertical Alignment	½ inch in 20 feet

- xx. CONSTRUCTION REQUIREMENTS. The barrier shape detailed on the Plans shall not be altered.

- xx. FORMS. Forms shall conform to the geometry shown on the Plans and the forming requirements of Section 501. Forms shall be constructed to allow for checking and correcting the railing alignment and grade after the concrete has been placed and prior to initial set.

- xx. CONCRETE FINISHING. Concrete bridge railing shall have a dressed finish in accordance with Subsection 501.16. In addition, the following work shall be performed, if necessary:

- (a) Cracking. Cracks less than 0.01 inch in width shall be sealed by a method approved by the Engineer. Cracks in excess of 0.01 inch may be cause for rejection. At the Engineer's discretion, cracks shall be repaired or the transition barrier replaced at the Contractor's expense.

- xx. CURING CONCRETE. Curing compound shall not be used in curing the transition barrier concrete.

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The Contractor and all other project personnel shall take particular care when performing any construction or other operations during the barrier curing period in order that the bridge deck is not struck, shaken, or vibrated. After the curing period is completed, all parties shall take care to avoid damaging the barrier during the remainder of the project construction.

xx. METHOD OF MEASUREMENT. The quantity of Special Provision (Bridge Railing Concrete Transition Barrier) to be measured for payment will be the number of each barrier unit constructed in the complete and accepted work.

xx. BASIS OF PAYMENT. The accepted quantity of Special Provision (Bridge Railing Concrete Transition Barrier) will be paid for at the Contract unit price per each. Payment will be for full compensation for furnishing, handling, and placing the materials specified and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work, including the furnishing of all forms, reinforcing steel, admixtures, trial batches, connection plates for approach railing terminal connectors, and satisfactory completion of any necessary repairs, surface finishing, and curing.

Water Repellent, Silane used within the pay limits of Bridge Railing Concrete Transition Barrier will be paid for separately under Contract item 514.10.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
900.620 Special Provision (Bridge Railing Concrete Transition Barrier)	Each