

702-R-742 HEADWALLS, WINGWALLS, AND FOOTINGS CONSTRUCTION ON AN
EXISTING STRUCTURE

(Adopted 09-16-21)

Description

This work shall consist of the design and construction of cast-in-place or precast concrete headwalls, wingwalls, and footings, on an existing structure, in accordance with 105.03.

Materials

Materials shall be in accordance with 714.02 and 711.02.

Concrete shall be class A for headwalls and wingwalls, and class B for footings, in accordance with 702.02.

Construction Requirements

The design of the headwalls, wingwalls, and footings shall be the responsibility of the Contractor and shall be in accordance with 714.04(b). The working drawings shall include all details, dimensions, and quantities necessary to construct the headwalls, wingwalls and footings. Design calculations, in accordance with 714.04, shall be submitted with the working drawings.

The headwalls, wingwalls and footings shall be constructed in accordance with the applicable portions of 714.

Reinforcement and stud shear connectors shall be placed as shown on the approved working drawings.

Placement and finishing of the concrete shall be in accordance with 702, unless otherwise noted.

Method of Measurement

The design and construction of the headwalls, wingwalls, and footings will be measured in accordance with 702.27. Stud shear connectors will be measured in accordance with 711.72.

Basis of Payment

The construction of inlet and outlet headwalls, wingwalls, and footings, including but not limited to, formwork, materials, placement, stripping of formwork, and finishing will be paid for in accordance with 702.28. Stud shear connectors will be paid for in accordance with 711.73.

The cost of the clearing debris, excavation, design, working drawings, materials, installation, and all necessary incidentals shall be included in the cost of the pay items.

Reinforcing bars will not be paid for directly but shall be included in the cost of the pay items.

Damage made to the host pipe or structure during the headwall, wingwall or footing construction shall be repaired at no additional cost to the Department.