

ITEM 18605.2502 M - PRECAST CONCRETE HEADWALLS FOR 100 mm LATERAL OUTLET PIPES

DESCRIPTION

Furnish and install precast concrete headwalls at lateral outlet pipes where shown in the contract documents.

MATERIALS

1. **Precast Headwall:** Notify the Materials Bureau of the name and location of the precast headwall fabricator at least 30 days before the start of production. Supply precast headwalls meeting the requirements of §704-03, except as noted herein. The requirements for concrete inspection facilities, automated batching controls and recordation do not apply. Use concrete batching, mixing methods and inspection facilities approved by the Materials Bureau.

Use the dimensions shown on page 2 of this specification. Proposed changes to these dimensions, other than minor changes approved by the Engineer, require submission of three complete sets of working drawings to the Engineer for review and approval.

When headwalls are fabricated by a manufacturer whose name appears on the Department's Approved List, under Precast Concrete Drainage Units, acceptance will be based on a manufacturer's certification that the units shipped conform to specification requirements. Mark the name or trademark of manufacturer, the date of manufacture, and the unit identification number on the certified units with permanent waterproof paint.

2. **Rodent Screen:** Use screens of #2 or #3 welded wire mesh, 16 gauge or heavier, made of Type 304 stainless steel wire or carbon steel wire, hot dipped galvanized in accordance with §719-01. A manufacturer's certification to these requirements will serve as the evidence of acceptability.
3. **Steel Bars:** Use 13 mm diameter, 600 mm long deformed or plain billet-steel bar meeting the requirements of ASTM A615 (such that it will fit in holes in head wall). The steel bar shall be either hot dipped galvanized in accordance with ASTM A123 or epoxy coated in accordance with 709-04. A manufacturer's certification to these requirements will serve as the evidence of acceptability.

CONSTRUCTION DETAILS

Install each headwall with a rodent screen and two steel bars as specified. Install headwalls flush with the finished slope and orient to allow the headwall apron to drain. Extend outlet pipes into the headwall fitting until flush with the installed rodent screen. Install a steel bar in each of the two holes, driven to a minimum of 15 mm and a maximum of 50 mm below the top surface of the headwall.

METHOD OF MEASUREMENT

Headwalls will be measured by the number of units supplied and installed according to the contract

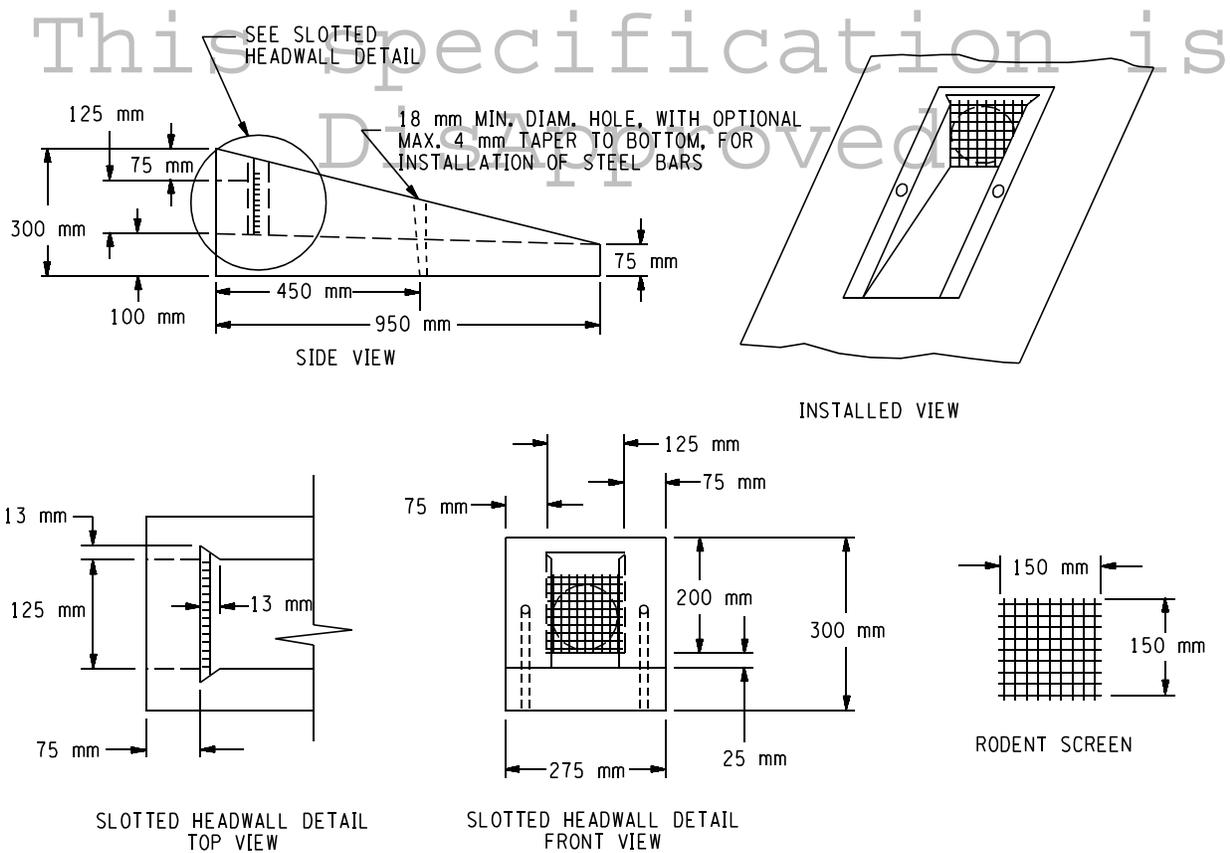
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documents.

BASIS OF PAYMENT

Include the cost of labor, materials and equipment required to fabricate and install the headwalls in the unit price bid per headwall. Headwalls damaged during construction shall be replaced at contractor's expense.



PRECAST CONCRETE OUTLET HEADWALL

Metric Version