

**SECTION 10.10
CONCRETE HANDHOLE**

10.10.01--Description: This item shall consist of furnishing and installing a concrete handhole of the type called for at the location and to the dimensions and details shown on the plans, or as directed by the Engineer and in conformity with these specifications. The concrete handholes may be precast or cast in place.

10.10.02--Materials: The materials for this work shall meet the required specifications in the following articles:

| | |
|-------------------------|-----------|
| Bituminous Concrete | M.04 |
| Class A Concrete | M.03.01 |
| Class C Concrete | M.03.01 |
| No. 6 Crushed Aggregate | M.01.01 |
| Topsoil | M.13.01 |
| Precast Concrete | M.08.02-4 |
| Fertilizing | M.13.03 |
| Seeding | M.13.04 |
| Mulching | M.13.05-2 |
| Galvanizing | M.06.03 |

Handhole cover--The handhole cover shall be galvanized, non-skid floor plate steel which will have a minimum tensile strength of 345 MPa.

10.10.03--Construction Methods: Cast-in-place or precast handholes shall be constructed or installed as shown on the plans. Handholes that are cast-in-place shall be constructed in accordance with the pertinent provisions of Article 6.01.03.

The areas disturbed by the excavation for the handholes shall be neatly graded to conform to the adjacent contours. Where topsoil has been removed, it shall be replaced to its original depth (except that in no case shall this depth be less than 100 mm) and the area shall be fertilized, seeded and mulched. The final elevation of the top of the concrete handhole shall be 38 mm above finished grade or as directed by the Engineer.

Where handholes are shown in sidewalk or paved areas, the concrete handhole shall be set flush and the surrounding area shall be replaced with the same type of material as removed.

Unless otherwise ordered by the Engineer, a handhole cover plate (galvanized steel) of the size specified, shall be installed on each handhole. The cover for concrete handhole shall be overlap type with the following exceptions: where the handhole is installed in a sidewalk, concrete median barrier or where concrete handhole type II is used, the cover shall be the recessed type.

When a cast iron cover is called for on the plans, it shall be paid for as a separate item.

The concrete handhole shall be set on crushed stone in accordance with the details, and a drain pipe shall be installed meeting the requirements of Section 10.11.

10.10.04--Method of Measurement: This work will be measured for payment by the number of handholes of the type specified, complete and accepted in place.

10.10.05--Basis of Payment: This work will be paid for at the Contract price each for "Concrete Handhole" of the type called for, complete in place, which price shall include all materials, concrete, steel cover, crushed stone, excavating, backfilling and replacement of pavement, including grading and placing topsoil, seeding, fertilizing, mulching and all equipment, tools, labor and work incidental thereto.

| Pay Item | Pay Unit |
|---------------------------|----------|
| Concrete Handhole | EA. |
| Concrete Handhole Type II | EA. |