

**10005 Access Hole Installation****Index**

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**10005-1      Description**

1. The work shall consist of locating the 2'-6" by 3'-0" access holes symmetrically between the columns.
2. The work shall consist of coring at the corners of the access holes and joining up the core holes by saw cutting completely through the concrete.
3. The work shall consist of removing the sawn out concrete and cores from the access holes and disposing of concrete as directed by the Engineer to the landfill site.
4. The work shall include the installation of manhole ladder type rungs as well as four metal access doors.

**10005-2      Reference Standards****2.1            Concrete**

CSA A-23 1-M77 concrete materials and methods of concrete construction.

**10005-3      Materials**

Unless otherwise specified the Contractor shall supply all materials to carry out the work.

**3.1            Manhole Ladder Rungs**

Shall be supplied by the Owner.

**3.2            Metal Access Doors**

Included and supplied shall be the hook and "I" hinges as well as the fasteners. Locks shall be provided by the City.

Painting of the metal access doors shall be as or equal to:

Shop primer - Mobil Chromox Primer (13-R-50) - 2 mils dry film thickness

Topcoat - Mobil Val-Chem Epoxy Enamel (84 Series) - 2 mils dry film thickness

The fabricator shall follow the manufacturer's instructions regarding surface preparation, methods of priming and topcoating and equipment types.

**10005-4     Equipment**

The Contractor shall provide all necessary equipment to carry out the work.

All equipment used in executing any part of the work shall be maintained in efficient working orders.

**10005-5     Protection**

The City shall provide the closure of the curb lanes (one at a time) between the hours of 9:30 a.m. to 3:30 p.m. Monday to Friday.

The Contractor shall be responsible for maintaining safe pedestrian and bicyclist traffic on the sidewalks.

Any property damaged as a result of work done under this section shall be replaced or repaired to the satisfaction of the Engineer at the Contractor's expense.

**10005-6     Procedure****6.1           Preparation**

The Contractor shall make preparations for a continuous efficient and safe operation.

All necessary scaffolding and other safety equipment shall be in place prior to the commencement of the construction work.

Each access hole shall be marked prior to commencing coring or cutting.

The required traffic controls shall be in place as well as the required controls for the pedestrians and cyclists.

Water from the coring and cutting shall be permitted to flow into the river; however, the contractor shall install a clay type dam to decant the water.

**6.2           Construction**

The Contractor shall commence the construction by coring the corners of the access hole. The cores shall be preserved for the Engineer's inspection and or use. The core

size must be large enough so as not to require over cutting in the sawing operations at the corners. Standard coring procedure shall be followed.

The Contractor shall cut the bottom, followed by the sides, and lastly by the top. The cut concrete shall then be removed out of the hole and broken into manageable sizes. Any reinforcing steel shall be turned over to the Engineer for his inspection or use.

The exposed reinforcing steel in the face shall be painted as per:  
Primer - 1 coat of red lead oil alkyd type conforming to CGSB 1-GP-140  
Finish - 2 coats of an exterior alkyd enamel conforming to CGSB 1-GP-59.

Following the construction of the access hole, the Contractor shall install the rungs as directed by the Engineer. This will involve drilling, hammering and mortaring. The steps of the rungs shall be horizontal.

Finally, the four outside access holes shall be sealed by the installation of the steel access doors. The installation shall involve measuring and drilling.

**10005-7      Quality of Work**

All work shall be inspected by the Engineer and shall meet with his satisfaction prior to acceptance. All costs associated with the correction of deficiencies shall be carried by the Contractor.

**End of Specification 10005**