

Part 1 General

1.1 PRICE AND PAYMENT PROCEDURES

- .1 Unit Prices: Section 01 11 10 - payment procedures affecting this section.
- .2 Adjustment of Manholes and Catch Basins: Measured by the numbers adjusted.
- .3 Adjustment of Water Valves: Measured by the numbers adjusted.

1.2 REFERENCES

- .1 ASTM C139-14 - Standard Specification for Concrete Masonry Units for Construction of Catch Basins and Manholes.
- .2 CAN/CSA-A165 Series-04 (R2014) - Standards on Concrete Masonry Units.
- .3 CAN/CSA-A179-04 (R2014) - Mortar and Grout for Unit Masonry.
- .4 CSA-A257 Series-09 - Standards for Concrete Pipe and Manhole Sections.
- .5 CSA-A3000-13 - Cementitious Materials Compendium (Consists of A3001, A3002, A3003, A3004 and A3005).
- .6 Ontario Provincial Standard Specification (OPSS)
 - .1 OPSS 408, Construction Specifications for Adjusting or Rebuilding Manholes, Catch Basins, Ditch Inlets and Valve Chambers.

1.3 ADMINISTRATIVE REQUIREMENTS

- .1 Schedule work to minimize interruptions to existing services during construction.

1.4 SUBMITTALS FOR INFORMATION

- .1 Section 01 33 00: Submission procedures.

1.5 CLOSEOUT SUBMITTALS

- .1 Section 01 78 10: Submission procedures.

1.6 REGULATORY REQUIREMENTS

- .1 Conform to OPSS 408 regulation for products and installation requirements.

Part 2 Products

2.1 MATERIALS

- .1 Adjusting Rings: CSA-A257 Series, configured to suit and fit top ring and lid.

Part 3 Execution

3.1 EXAMINATION

- .1 Verify existing conditions before starting work. Existing manholes and valve boxes are known to be buried between 100 and 400mm from the existing gravelled surface.
- .2 Verify existing manholes, catch basins, and watervalves are ready to receive work of this section.

3.2 MANHOLES AND CATCH BASINS

- .1 Remove existing frame and cover. Identify and store for re-use at locations designated.
- .2 Adjust manhole barrel to required elevation by removing or installing precast concrete ring sections.
- .3 Set manhole frame and cover to required elevation using no more than three (3) concrete rings and one (1) course of brick – each set in full bed of mortar.

3.3 WATERVALVES

- .1 Excavate and expose adjustable portion of water valve casing.
- .2 Adjust water valve casing to required elevation.
- .3 Recess top of water valve 5 mm below finished surface elevation.
- .4 Backfill and compact areas surrounding valve and fittings.
- .5 Ensure water valve casing will not move or settle.

3.4 FIELD QUALITY CONTROL

- .1 Operate valve in presence of Departmental Representative to verify it is fully operational following adjustment.

3.5 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
 - .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.
- .3 Remove debris that may fall into manhole structure during structure adjustments.

END OF SECTION
