

# S-32 CCTV SEWER INSPECTION

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### 32.01. SCOPE OF WORK

This specification shall be for the review and acceptance of any municipal sewer mainline or private drain connection installed or rehabilitated in the Corporation of the City of Windsor. The CCTV inspection work will be performed by municipal forces or by a private contractor under contract with the Corporation of the City of Windsor.

### 32.02. REFERENCES

This specification refers to the following standards, specifications, or publications:

- OPSS 409

### 32.03. SUBMISSION AND DESIGN REQUIREMENTS

Submission requirements shall be in accordance with OPSS 409.

### 32.04. MATERIALS

Material requirements shall be in accordance with OPSS 409 with the exception of the following.

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All media storage to be submitted to the corporation shall be in DVD format unless otherwise specified by the City Engineer.

When any deficiency is discovered by the corporation during the CCTV inspection or review of the submitted CCTV inspection, the corporation will supply a digital copy of the CCTV inspection showing said deficiency at no charge at the request of the contractor.

### **32.05. EQUIPMENT**

Equipment requirements shall be in accordance with OPSS 409.

### **32.06. CONSTRUCTION**

Construction requirements shall be in accordance with OPSS 409 with the exception of the following.

The contractor is to notify the corporation, in writing, a minimum of 72 hours in advance of their scheduled sewer cleaning to request a CCTV sewer inspection.

Should the corporation fail to schedule the requested CCTV inspection after being notified in writing by the contractor that the said sewers were ready for CCTV inspection, the corporation shall not hold the contractor responsible for the cleanliness of the sewer.

Should it be found that during the CCTV inspection that the subject sewers are not cleaned properly, contain construction debris, or the contractor does not have the proper access points available to the CCTV operators, the corporation shall direct the CCTV inspection crew to leave the site.

Should this occur then the contractor shall undertake the required cleaning and subsequent CCTV inspection work entirely at their expense and submit the required CCTV inspections for review and acceptance by the corporation.

Immediately before the CCTV inspection of PDC's, the contractor shall introduce a minimum of 10 litres of water, via the cleanout, to assist the CCTV operator in their inspection. Failure to assist in this requirement will result in the removal of the CCTV inspection crew from the site as noted above. The contractor shall also provide assistance in the opening of all PDC's for inspection via the cleanout and for the laying of the pipes, backfilling with granular material, the supply and use of all appliances and materials, the disposal of all surplus excavated materials and the satisfactory cleaning of the site and for all work required under this specification, excepting those items for which other payment is herein provided.

### **32.07. CCTV INSPECTION**

CCTV inspection requirements shall be in accordance with OPSS 409 with the exception of the following.

When PDC CCTV inspection is being undertaken, the chainage will begin at the access point, the cleanout, located at or close to property line or located in the right of way, and be measured in metres toward the municipal mainline sewer or towards the building structure to determine the location of any deficiencies, if encountered.

### **32.08. QUALITY ASSURANCE**

Quality assurance requirements shall be in accordance with OPSS 409.

### **32.09. MEASUREMENT FOR PAYMENT**

Measurement for payment requirements shall be in accordance with OPSS 409. The contractor shall also be required to adhere to the following.

#### **CCTV Reports & Submittals**

The Contractor shall submit the following deliverables for each work order completed in the contract:

- a) A final invoice showing details of hours/meters inspected.
- b) Maps to highlight inspections completed.
- c) Video inspection data including defect-coding data recorded on DVD.
- d) DVD data to be formatted to enable uploading of the defect-coding data into the City's 'WinCan Version 8'.
- e) WRc survey details must be time indexed to the DVD video in a manner that will allow the images to be displayed when the survey data is viewed using WinCan Version 8.

Data shall be configured according to the definitions and database structures included in OPSS 409 Video must be able to be viewed using Windows Media Player 9 Series and have the ability to use all features of the video player including fast forward capability. **DVD's must be in the specified format to download directly into 'WinCan Version 8' or the entire report will be returned to the Contractor and the invoice not paid.**

### **32.10. BASIS FOR PAYMENT**

Basis for payment requirements shall be in accordance with OPSS 409 with the exception of the following.

Any deficiencies found by the corporation shall be deemed as deficient until the required remedial action is undertaken by the contractor. Once the required remedial action has been undertaken, the corporation shall require that the contractor request to have the deficient section of sewer reviewed again in writing as per Section 7.0 above. This review

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shall be done at the contractor's expense and submitted to the corporation for review and acceptance.