

CCTV INSPECTION AND PIPE CLEANING SUPPLEMENTARY SPECIFICATION

Document History

Date	Version #	Author(s)	Description of Changes
2016-03-14	V1.0	DTM	
2017-05-25	V1.1	DTM	File naming added
2020-11-26	V1.2	DTM	For Inspection Standards

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Introduction

The City of North Vancouver has adopted MMCD Platinum Edition (2009) for construction, operations, and maintenance of public infrastructure. This supplementary specification should be read together with MMCD Platinum for the purposes of work associated with:

- Section 33 01 30.1 - CCTV Inspection of Pipelines and Cleaning of Sewers; and
- Section 33 01 30.2 – Cleaning of Sewers

This supplemental information is intended to identify City of North Vancouver specific requirements in an easy to reference document, and is a requirement for all CCTV videos submitted to the City for inspection of gravity sewers associated with Development Servicing, Capital Projects, and other work in City right-of-ways.

CCTV Inspection of Pipelines

- All CCTV data shall be collected using National Association of Sewer Service Companies (NASSCO) – Pipe Assessment and Certification (PACP) Version 7.0 methodology.
- All Inspection Records shall be submitted in a digital format (i.e. database and report). PDF copies of datasets shall be in addition to a database or spreadsheet.
- Video files shall may be submitted in MP4 format or standard formats, provided that the file can be used in the City of North Vancouver's network.
- Digital information (e.g. datasets, reports, images, videos) can be submitted on CD or DVD, USB memory, or via a fileshare site.
- All coding of observations shall be completed as per the PACP standard.
- Inspections are not required to be submitted in binders as hard copies.

Data Labelling:

All manholes shall be named as per the City of North Vancouver GIS naming convention, as shown on the City utility plate maps or GIS system:

DMH-00XXXX: Storm Sewer Manholes
SMH-00XXXX: Sanitary Sewer Manholes
DMN-00XXXX: Storm Mainline ID
SMN-00XXXX: Sanitary Mainline ID

The City plate maps of the work are available on the City Website under Public Works and Engineering Servicing Standards. Final acceptance of the inspections we rely on meeting the City standards for report submission.

File Naming:

All video files shall be from a manhole to a manhole, cleanout or termination of the pipe. In the cases where there is no manhole, the City has applied administrative nodes in our system to describe unique asset conditions between manholes (e.g. pipe material or pipe diameter that may change between manholes).

All videos shall be named in the following way:

SMH-00XXXX to SMH-00XXXX CCTV YYYYMMDD for mains
SCO-00XXXX 347 East Keith Road CCTV YYYYMMDD for laterals

All main segments shall have a minimum of one still photo. This photo should capture a typical section of pipe free of defects, that indicates a high water level mark. These files shall be named as follows”

SMH-00XXXX to SMH-00XXXX TYPICAL YYYYMMDD

Still photos shall be provided for any defects or operating issues that are severity 3.0 or worse. These files shall be named:

SMH-00XXXX to SMH-00XXXX OBS1 YYYYMMDD
SMH-00XXXX to SMH-00XXXX OBS2 YYYYMMDD
SMH-00XXXX to SMH-00XXXX OBS3 YYYYMMDD

or

SCO-00XXXX OBS1 YYYYMMDD for laterals

Cleaning of Sewers

- Sewers shall be flushed prior to inspection. In the event that videos are submitted and sewers are not clean enough for appropriate review, the inspection will not be accepted.