MMCD Section 33 01 30.1S CCTV Inspection of Pipelines

1.0 GENERAL

1.2	**References**	Delete 1.2.2.1 and replace with the following	National Association of Sewer Service Companies' (NASSCO's) Pipeline Assessment and Certification Program, version 6.x including addendums, or latest version.
1.3	**Submission of Certification**	Delete 1.3.1 and replace with the following	Submit copy of the CCTV operator's current NAASCO certification certificate to the Contract Administrator at least one week prior to the start of the CCTV inspection operations.

2.0 PRODUCTS

2.1	**Equipment**	Delete 2.1.4 and replace with the following	The individual digital video playback files to be of MPEG file format.
		Add 2.1.5	The digital data file delivered to the City to be in PACP standard database file format version 6.x or latest.

3.0 EXECUTION

3.1	**CCTV Inspection**	Delete 3.1.1 and replace with the following	CCTV operator to be certified by NASSCO (PACP/MACP/LACP).
		Delete 3.1.2 and replace with the following	NASSCO certified software must be used to produce inspection report and the data will be submitted in the PACP standardized database format. The review of this statement will be part of the evaluation of the tender. Submission to satisfy all of the specifications and report submissions per NASSCO's PACP (MACP/LACP) will be used as a benchmark for subsequent inspection report submission.
		Delete 3.1.11 and replace with the following	Note condition of pipe joints at manhole walls at the beginning and end of each pipeline; At the beginning of each pipeline or where surface wear of the pipe changes, pan to the invert and any direction as needed to report and record surface wear condition of the pipe using PACP (MACP/LACP) codes; Fill under remarks the observations if no surface wear observed due to good condition of pipe or unable to determine stating reason.
		Delete 3.1.14 and replace with the following	Stop camera at each defect, change of condition of pipe and service connection to record defect in accordance with PACP (MACP/LACP) codes.

		Delete 3.1.15 and replace with the following	Add PACP (MAC/LACP) code overlay to digital video at defects or connections in addition to continuously displayed data.
		Add 3.1.19	The inspection measurement and reporting units must be in metric system.
3.3	**Site Coding Sheets**	Delete 3.3.1 and replace with the following	Each pipeline length to be recorded according to the PACP. Any variation from the manual to be noted in the survey report.
		Delete 3.3.2 and replace with the following	Use standard coding form and standards of PACP:
		Delete 3.3.2.1	
		Delete 3.3.2.2	
		Delete 3.3.2.3 and replace with the following	Note observations as to condition of service connections beyond mainline in remarks column using standards codes as per PACP.
3.7	**Photographs and /or Digital Images**	Delete 3.7.1 and replace with the following	Photograph all major defects as defined by condition codes in PACP: B, CC, CL, CM, TFD, TBD, TSD, TRD, D, FC, FL, FM, H, IR, IG, JO, OB, JS, RM, RB, RT, and X.
		Delete 3.7.2.5 and replace with the following	PACP/MACP/LACP Condition Defect Code.
3.8	**Inspection Reporting Hard Copies & Digital Format**	Delete 3.8.2 and replace with the following	Present machine printed (hardcopy) and computer generated data base reports according to the PACP format.
		Delete 3.8.2.2 and replace with the following	Hardcopy reports to be presented in PACP standard format.
3.10	**Root cutting & Removal**	Delete 3.10.1 and replace with the following	Remove roots for condition codes RT, RM, and RB.
3.12	**Coding Accuracy**	Delete 3.12.1.2 and replace with the following	Detail accuracy 90%
		Delete 3.12.4 and replace with the following	An operator failing to meet the accuracy requirements on two occasions will not be permitted to code on the remainder of the project until they have successfully re-attended an Operator's Certification course, re-write and pass the NASSCO Pipeline Assessment Certification Program.