

522-2019 ADDENDUM 1

2019 SEWER INSPECTIONS

URGENT

**PLEASE FORWARD THIS DOCUMENT TO
WHOEVER IS IN POSSESSION OF THE
TENDER**

ISSUED: May 31, 2019
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**THIS ADDENDUM SHALL BE INCORPORATED
INTO THE TENDER AND SHALL FORM A PART
OF THE CONTRACT DOCUMENTS**

Template Version: A20190115

Please note the following and attached changes, corrections, additions, deletions, information and/or instructions in connection with the Tender, and be governed accordingly. Failure to acknowledge receipt of this Addendum in Paragraph 10 of Form A: Bid may render your Bid non-responsive.

PART D – SUPPLEMENTAL CONDITIONS

Revise: D5.4 to read:

As per D5.1 the Contractor's Project Manager shall maintain a physical site presence for the duration of the Work and provide coordination and support for all crews and Subcontractors unless written authorization has been given by the Contract Administrator. As per D17.5, the Contractor's Project Manager will not be required on site if a suspension of on-site construction has been agreed with the Contract Administrator.

PART E – SPECIFICATIONS

Add: E17 as follows:

E17. PROJECT DELIVERABLES

E17.1 CCTV Sewer and Panoramio Manhole Inspections shall include the following information:

- (a) The Contractor shall submit formal NASSCO PACP and MACP compliant Sewer and Manhole Inspection Reports respectively, in digital (PDF) format, that summarizes all inspection activities and includes all inspection data in their raw format, along with any software required to view or utilize the video and raw data as per E8.

E17.2 The Multi-Sensor Inspection Report shall include the following information:

E17.2.1 LASER Scanning inspection:

- (a) Summaries of pipe corrosion and debris build-up, presented as unrolled colour-coded full-circumference graphical illustrations of pipe condition, over the length of the sewer inspected. Where the presence of fluids in the pipe necessitates interpolation to complete the full circumference view, the method and calculations used to support these assumptions shall be presented.
- (b) Cross-sectional scans, taken at regular intervals along the inspected sewer segment, showing measured pipe cross section superimposed over as-built pipe cross section, and colour highlighted to identify all areas of apparent cross-section loss and gain, construction or defective pipe features in alignment with CCTV payout distances.
- (c) Summaries of pipe ovality and deflection, including:
 - (i) Vertical AND horizontal diameter plots of individual diameter measurements versus pipe length, for each section of sewer inspected.

- (ii) Ovality plots depicting percent deviation from as-built records.
- (d) LASER data as VRML (Virtual Reality Modeling Language) 3D computer graphic representations, in WRL format, with software viewer that can be used to display and interpret the LASER data.

E17.2.2 SONAR Scanning inspection:

- (a) Graphical summaries of sediment thickness and cumulative sediment volumes in the trough of the pipe below the water line versus pipe location, and pipe capacity depicting actual versus original theoretical storage capacity.
- (b) Statistical average, minimum, and maximum values of sediment accumulation along the sewer, where appropriate, as determined by calculating the portion of the pipe obstructed by sediment and presented as a percentage of the pipe area.
- (c) Cross-sectional scans, taken at regular intervals along the inspected sewer segment, showing sediment and pipe shape to identify all apparent cross-section loss or gain in alignment with CCTV payout distances.
- (d) Video file of SONAR data in AVI file format.

E17.2.3 Further to E8.1.4 (b), Laser and Sonar deliverables shall be submitted to the Contract Administrator no later than 14 days from completion of sewer inspection activities, or sooner to achieve the requirements set out in D19, D20 or D21.