Winnipeg

Corporate Finance Department
Materials Management Division

347-2020 ADDENDUM 1

Kildonan-Redwood Feeder Main Crossing Rehabilitation

ISSUED: July 2, 2020
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URGENT

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

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 E – SPECIFICATIONS

Revise:	E12.2.1 (c) to read:	The interior surfaces of the pipe to be lined shall be cleaned by methods to remove all sediment, corrosion products (rust and graphite), biology, chemicals or other deposits, loose and deteriorated remains of old coating materials, oil, grease, accumulations of water, debris and other foreign matter as required to create a uniform surface for installation of the CIPP liner. The host pipe prior to lining shall be free of all defects that would cause defects and stress concentrations in the CIPP liner.
Revise:	E12.2.1 (d) to read:	End seals are locations where particular attention must be paid when cleaning and preparing pipe sections to facilitate achieving hydrostatic integrity of the relined system. Care must be taken to clean and prepare the full circumference of the host pipe at the end seal locations to ensure proper installation and operation of the proposed end seal system. The cleaning method(s) chosen shall meet the performance requirements of this section. The selection of cleaning and preparation method(s) shall consider the potential for damage to the host pipe and take precautions to minimize potential damage before selection and deployment.
Revise:	E12.2.1 (f) to read:	The existing feeder main has apparent leaks present along its length, determined through low leakage tests completed in 2019 which could be aggravated by aggressive cleaning methods, resulting in additional challenges for installation of the CIPP liners. Apparent leakage rates of 300 to 400 L/hr were measured in 2019. Cleaning method shall be selected to suit the configuration and condition of the pipeline and minimise the potential to aggravate existing defects.
Add:	E14.7.1 (b)(vi)	The interior of the feeder main shall be epoxy coated in accordance with E11.4.12 and E11.5.4 prior to CIPP lining or installation of the internal mechanical end seal to ensure that any exposed portion of the interior of the feeder main is epoxy coated.
Revise:	E14.7.1 (c)(i) to read:	The use of sleeve couplings in conjunction with the CIPP liner terminating within a fiberglass pressure pipe is acceptable where the CIPP liner can be demonstrated to provide a leak proof termination between the CIPP liner and the fibreglass pipe sufficient axial restraint to resist imparted axial forces on the CIPP liner.
Revise:	E14.7.1 (c)(iii) to read:	The Contractor shall provide historical field and demonstration testing data to demonstrate their ability to obtain a water tight seal and axial restraint between the CIPP liner and the fibreglass pipe. Historical demonstration tests of the proposed system are acceptable.

Revise: E14.8.2 (a) to read: The constructor shall ensure that all debris and standing water is removed from the pipe prior to lining. Any remaining moisture in the pipe shall be within the installation parameters provided from the resin manufacturer. Options for the removal of excess water and remaining debris may include:

(i) Pulling tight fitting rubber disk squeegees through the pipe; but, they are not sufficient for drying the pipe. These shall be followed by oversized foam swabs must then be pulled through the cleaned and prepared main. The number of swab passes required depends on the condition of the main; swabbing must continue until the swabs emerge clean and dry.

(ii) Cleaned and prepared pipes may also be air-dried using a suitable, oil-free blower or vacuum system. The filters must be capable of removing 100% of the compressor oil from the air discharge and must be checked and cleaned regularly.

Revise: E14.8.2 (b) to read: The inability to remove all debris or water suggests inadequate cleaning, remaining leaks in the host pipe, or leaking valves. These faults should be investigated and remedied before the lining begins. It is important to note that the pipe must be inspected prior to lining to ensure it is free of visible moisture and free standing water along it length consistent with the installation parameters provided by the resin manufacturer.

Revise: E14.8.7 (b)(i) to read: One (1) confined test sample in accordance with E14.8.7(h). Confined test samples will be used for the following testing:

- If hoop tensile strength governs the design, apparent hoop tensile strength testing (ASTM D2290) will be completed, else testing for short-term flexural properties (ISO 11296) will be undertaken.
- In place liner thickness measurements

Revise: E14.8.7 (b)(ii) to read: Two (2) plate samples in accordance with E14.8.7(i). Plate samples are to be utilized for the following:

- Sample 1: Short term flexural properties (ASTM D790)
- Sample 2: If hoop tensile strength governs the design, tensile strength testing (ASTM D638) will be undertaken, else the sample will be utilized for extra flexural testing as required.

Add: E14.8.10 The Contractor is prohibited from discharging styrene laden water to the environment. Any styrene containing water shall be discharged to the WWS or CS systems as specified or otherwise treated prior to discharge in accordance with environmental regulations.