



## 636-2010 ADDENDUM 3

### PROFESSIONAL CONSULTING SERVICES FOR SHOAL LAKE AQUEDUCT PRESERVATION PROGRAM

#### URGENT

**PLEASE FORWARD THIS DOCUMENT TO  
WHOEVER IS IN POSSESSION OF THE  
REQUEST FOR PROPOSAL**

ISSUED: November 8, 2010  
BY: Ron Sorokowski  
TELEPHONE NO. (204) 986-4472

**THIS ADDENDUM SHALL BE INCORPORATED  
INTO THE REQUEST FOR PROPOSAL AND  
SHALL FORM A PART OF THE CONTRACT  
DOCUMENTS**

Template Version: Ar20070420

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Please note the following and attached changes, corrections, additions, deletions, information and/or instructions in connection with the Request for Proposal, and be governed accordingly. Failure to acknowledge receipt of this Addendum in Paragraph 9 of Form A: Proposal may render your Proposal non-responsive.

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#### PART B – BIDDING PROCEDURES

Revise: B2.1 to read: The Submission Deadline is 4:00 p.m. Winnipeg time, November 17, 2010.

#### PART D – SUPPLEMENTAL CONDITIONS

Revise: D5 to read:

##### **D5. SCOPE OF SERVICES**

- D5.1 The Shoal Lake Aqueduct Asset Preservation Program includes **eight** work areas. It is required that these areas of work be described and priced separately. It should be noted that the work areas will not be awarded separately. The **eight** areas of work shall constitute one contract and shall be awarded as such.
- D5.1.1 Refer to Appendix C for relevant documents.
- D5.2 Detailed design and contract administration are required for the reconstruction of two drainage siphons located at Mile 35.38 and Mile 37.59 along the Shoal Lake Aqueduct.
- D5.2.1 Development of bid opportunity documents, **pre-bid estimate**, as-constructed drawings, safety operating protocol for working within or outside the Aqueduct, operating protocol for the Aqueduct are deliverables for this area of work.
- D5.3 Preliminary design, detailed design and contract administration are required for the **restoration** of the boathouse located at Mile 83.02 along the Shoal Lake Aqueduct. The works shall include:
- (a) detailed inspection of the existing boathouse;
  - (b) implementation plan for **restoration** of the boathouse. This would include **salvaging most, if not all, of the existing superstructure**;
  - (c) **detailed plan for a temporary support (if required) and protection for the electrical and flow monitoring panels. The electrical flow monitoring panels shall be functional during the restoration of the boathouse**;
  - (d) **assessment of the boathouse superstructure with respect to ventilation, insulation and safety of the floor hatches. Assessment shall be complete with conclusions and recommendations.**
  - (e) sealing and ventilation of the Aqueduct openings into the boathouse. The Aqueduct openings, **if required**, shall be properly ventilated through the roof of the boathouse;

- (f) the **restored** boathouse shall be flood proof as the area is prone to flooding from the Boggy River;
- (g) changing of the boathouse door to an environmentally suitable option **complete with door alternatives and recommendations**. Security items located on the boathouse shall be re-established;
- (h) discussions with the security consultant of the Water System Security Upgradings Project currently ongoing. The discussions shall be with respect to the **restoration** of the Mile 83.02 boathouse; and
- (i) development of road access to the boathouse from an existing road at Mile 82.44 which includes;
  - (i) consulting with Manitoba Hydro regarding the possible relocation of **an Hydro line** parallel to the Aqueduct within the City's property;
  - (ii) loading analysis of the Aqueduct pipe where the existing road crosses the Aqueduct; and**
  - (iii) insulation and bridging detail where the **existing** road crosses the Aqueduct.

D5.3.1 A preliminary design report, **pre-bid estimate**, development of bid opportunity documents, safety operating protocol for working within or outside the Aqueduct and as-constructed drawings are deliverables for this area of work.

D5.4 Preliminary design, detailed design and contract administration are required for the construction of a new boathouse superstructure at Mile 64.14 along the Shoal Lake Aqueduct. The works shall also include:

- (a) inspection of the adjacent energy dissipation chamber and outfall to the Whitemouth River for condition and required repair of the chamber and outfall ; and
- (b) possibility of establishing a low level drain pipe from the Aqueduct to the energy dissipation chamber or outfall.

D5.4.1 Preliminary design report, **pre-bid estimate**, development of bid opportunity documents, safety operating protocol for working within or outside the Aqueduct, operating protocol for the Aqueduct and as-constructed drawings are deliverables for this area of work

**D5.5 Administration of the inspection of the Aqueduct Underdrain from west of the Floodway to the Tache Booster Pumping Station. The inspection includes cleaning of underdrains; and a closed circuit television inspection of the underdrain pipe in accordance with The City of Winnipeg Standard Construction Specifications. From the closed circuit television inspection, the proponent is expected to provide:**

- (a) an evaluation of the condition and performance of the underdrain; and**
- (b) recommendations of access upgrades, monitoring, maintenance program and specific repairs that is required.**

D5.5.1 Technical memorandum, **pre-bid estimate**, bid opportunity documents are deliverables for this area of work.

**D5.6 Preliminary design and contract administration are required for the repairs of Boathouses located at Mile 17.05, Mile 39.39, Mile 42.05, Mile 64.08, Mile 73.63, Mile 73.69, Mile 77.63, Mile 77.67, Mile 82.06, Mile 96.69 and Mile 96.77.**

- (a) detailed inspection of the existing boathouses;**
- (b) implementation plan for restoration of the boathouses. This would include salvaging most if not all of the existing superstructures;**
- (c) detailed plan for a temporary support (if required) and protection for the electrical and flow monitoring panels. The electrical and flow monitoring panels shall be functional during the restoration of the boathouses;**
- (d) assessment of the boathouses superstructure with respect to ventilation, insulation and safety of the floor hatches. Assessment shall be complete with conclusions and recommendations.**
- (e) sealing and ventilation of the Aqueduct openings into the boathouses. The Aqueduct openings, if required, shall be properly ventilated through the roof of the boathouses;**
- (f) changing of the doors of the boathouses to an environmentally suitable option complete with door alternatives and recommendations. Security items located on the boathouses shall be re-established; and**

**(g) discussions with the security consultant of the Water System Security Upgradings Project currently ongoing. The discussions shall be with respect to the restoration of the boathouses.**

**D5.6.1 A preliminary design report, pre-bid estimate, development of bid opportunity documents, safety operating protocol for working within or outside the Aqueduct and as-constructed drawings are deliverables for this area of work.**

D5.7 Stop log design verification.

D5.7.1 Structural detailed design of the stop log with the appropriate safety factor is required.

D5.7.2 Detailed drawings stamped and sealed by a professional engineer registered in Manitoba are deliverables for this area of work.

D5.8 Safety hoist design verification.

D5.8.1 Structural detailed design of the safety hoist with the appropriate safety factor is required to ensure the fabricated hoist is structurally sound.

D5.8.2 Detailed drawings stamped and sealed by a professional engineer registered in Manitoba are deliverables for this area of work.

**D5.9 Preliminary and detailed design for the manhole replacement at Mile 93.69 including;**

- (a) structural assessment of the Aqueduct to support a larger manhole stack that is ether 900mm or 1200mm internal diameter. It should be noted that the existing frame and cover will be reused; and**
- (b) constructability of the replacement manhole shall be considered based on the conditions and location of the site.**

**D5.9.1 A preliminary design report, pre-bid estimate, development of bid opportunity documents, safety operating protocol for working within or outside the Aqueduct and as-constructed drawings are deliverables for this area of work.**

## **Appendix C**

Add: the following drawings and figures

Drawings relevant to Supplementary Conditions; D5.9

<u>Drawing No.</u>	<u>Drawing Title</u>
D-291	Aqueduct Plan and Profile Mile 35.04 to mile 37.22
D-292	Aqueduct Plan and Profile Mile 37.12 to 39.39

Drawings relevant to Supplementary Conditions; D5.9

<u>Drawing No.</u>	<u>Drawing Title</u>
B-221	GWWD Section through Typical Manhole
D-7441	Aqueduct and Drainage repairs Miles 82.06 to Mile 96.77-Manhole and Vent Repairs at Miles 93.69 and 94.72.
D-7448	Aqueduct and Drainage repairs Miles 82.06 to Mile 96.77-Manhole and Vent Repairs - Miscellaneous Manhole and vent Details.

The Following Figures are relevant to Supplementary Conditions; D5.9





