



85-2016 ADDENDUM 2

REQUEST FOR PROPOSAL FOR PROFESSIONAL CONSULTING SERVICES FOR THE PROVISION OF PRELIMINARY DESIGN SERVICES FOR THE TACHE BOOSTER PUMPING STATION AND SURGE TOWER UPGRADE

ISSUED: March 24, 2016
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URGENT

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

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

Template Version: Ar20150806

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.

PART A – PROPOSAL SUBMISSION

Replace: 85-2016 Proposal Submission with 85-2016 Addendum 2 - Proposal Submission. The following is a summary of changes incorporated in the replacement Proposal Submission:

Form B (R1): Add Item No. 2.

Page numbering on some forms may be changed as a result.

PART B – BIDDING PROCEDURES

Add: B9.1 (a): Provide a separate Fixed Fee for pump operational testing and flow testing tasks listed in D5.3.8 (f) and D5.3.12(e). The schedule for pump testing will be dependent on the repair schedule for valve TBV located in the east tunnel shaft. Item No. 2 of Form B, Pump Operational and Flow Testing may be deleted from the Scope of Work should repairs for valve TBV not be completed within the timeline of this contract.

PART D – SUPPLEMENTAL CONDITIONS

Revise: D5.3.3 (a)(i) to read: Confined space requirements for access into the east tunnel shaft as per Manitoba Workplace Safety and Health. **The City of Winnipeg Water Services will provide the Consultant with equipment for fall restraint, multi-gas monitor for environment testing and top support.**

Add: D5.3.3(c): Provide condition assessment reports for each engineering discipline to document all inspection notes, comments made by City Staff, and site photography. Condition assessment reports shall be appended to the preliminary design report as stated in D5.3.17(b).

Add: D5.3.5(c): Ensure landscaping upgrades provide the minimum site drainage throughout the site in accordance with City of Winnipeg By-laws. Any site restoration required shall be in accordance with City of Winnipeg Standard Construction Specifications.

Add: D5.3.6(d)(v): new roof access ladder

Revise: D5.3.7(b) to read: Review condition of the piping and valves in the East Tunnel Shaft. Provide recommendations for any addition, removal or replacement required. **Note that valve**

TBV, located in the East Tunnel shaft, is scheduled to be replaced by the City and is not in the scope of this project.

Revise: D5.3.8(a) to read: Assess through inspection the need for any pump refurbishment (seals, impellers etc.) to achieve design capacity and provide reliable service.

(i) The City of Winnipeg Water Services Department will provide support to the Consultant during the pump inspection. City maintenance staff will be available to witness, **assist with disassembly**, and assist the Consultants pump expert and/or millwright with the inspection of the pumps.

(ii) Pump inspection should include a visual inspection of the impeller and wear rings and inspection of the mechanical packing.

Add: D5.3.8(f): Verify pump operation in accordance with the pump curve and design parameters, temperature, alignment, cavitation, and vibration.

(i) Consultant shall coordinate all pump operational testing with the City in advance. The schedule for pump testing will be dependent on the repair schedule for valve TBV. Pump operational testing may be deleted from the Scope of Work should repairs for valve TBV not be completed within the timeline of this contract. A separate fee for this task is provided for on Form B.

(ii) The City of Winnipeg Water Services Department will provide support to the Consultant during the flow testing. City operations staff will be available to operate valves and pumps. Prior to any flow testing, the Consultant will confirm the testing procedure and all requirements for City staff participation.

Add: D5.3.11(k): The City of Winnipeg Water Services Department will provide support to the Consultant during the testing activities on the Electrical System. Electrical maintenance staff will be available to provide access to panels, energize and de-energize systems, and witness all testing. Prior to any electrical testing, the Consultant will confirm the testing procedure and all requirements for City staff participation.

Revise: D5.3.12(e) to read: Investigate and test the operation of the existing orifice plate for accurately measuring flow. **Flow testing may be deleted from the Scope of Work should repairs for valve TBV not be completed within the timeline of this contract. A separate fee for this task is provided for on Form B.**

Add: D5.3.12(g): The City of Winnipeg Water Services Department will provide support to the Consultant during the testing activities on the Control System. City of Winnipeg staff will be available to provide access to all systems, energize and de-energize systems, and witness all testing. Prior to any Controls testing, the Consultant will confirm the testing procedure and all requirements for City staff participation.

APPENDICES

Replace: Appendix_C

<u>Drawing No.</u>	<u>Drawing Name/Title</u>
A-481	GWWD Floor and Manhole Frame and Cover
A-599	GWWD Booster Pumps-Surge Tank Pumping Heads at Various Rates of Flow
A-600	GWWD Plan of Proposed Pumping Station at Surge Tank
A-604	GWWD Single Line Diagram of Electrical Equipment Required for Booster Pumping Station
A-605	GWWD Panel Arrangement for Switchgear
A-607	GWWD Panel B- Metering Cubicle
A-609	GWWD Reactions of Piping in Pumping Station
A-632	GWWD Booster Pumping Station – St. Bon Piping Layout
B-329	GWWD Details of Door & Door Frame – Pump Well
B-357	GWWD Steel Ladder for Pump Well
B-622	Tache Booster Pumping Station
C-245	GWWD Red River Tunnel – Details of Floor Slabs for Pump Well
C-285	GWWD Red River Tunnel – Electric Test Station – East & West Shafts
C-295	GWWD – Detail of 60" Cast Iron Elbow as Supplied to Thos Kelly & Sons for Red River Tunnel
C-329	Platform Over Pump Well for Water Level Recorder
C-333	GWWD – Section of Soil Material Pacific Av. Shaft Red River Tunnel also Record of Core Drill Copied from Drawing D-446
C-518	Tache Booster Pumping Station Plot Plan
C-519	Tache Booster Pumping Station Ground Floor Plan
C-543	Schematic of Tache Booster Pumping Station
D-366	GWWD Plan and Section Red River Crossing 40'1" Tache Ave and Pacific St
D-434	GWWD – Red River Crossing – Tunnel Details
D-435	GWWD Red River Tunnel East Shaft
D-437	GWWD Red River Tunnel General Details of Pump Well

D-438	GWWD Red River Tunnel Pump Well Overflow Discharge
D-439	GWWD Red River Tunnel General Layout Piping & Well at East Shaft
D-444	GWWD Red River Tunnel Outside Masonry Shell for Pump Well
D-462	GWWD Red River Tunnel Roof Plan for Pump Well
D-456	GWWD – Red River Tunnel East Shaft
D-458	GWWD – Red River Tunnel – Details of Piers & Foundation Ring for Pump Well
D-459	GWWD Red River Tunnel – Foundation Ring for Pump Well
D-460	GWWD – Shell Details for Pump Well
D-461	GWWD Red River Tunnel – Details of Floor – Pump Well
D-462	GWWD Red River Tunnel – Roof Plan for Pump Well
D-464	GWWD Red River Tunnel Pump Well Overflow Discharge
D-466	GWWD Red River Tunnel General Details of Pump Well
D-467	GWWD Red River Tunnel – Iron & Steel Details for East & West Shafts & Pump Well
D-492	GWWD Outside Masonry Shell for Pump Well – Details of Brick Panelling
D-610	Tache Booster Pumping Station General Piping Layout
D-612	GWWD Pump House Site Topography
D-627	GWWD – Overflow Piping at Booster Pumping Station – St. Boniface
D-629-1	GWWD –Booster Pumping Station -Plot Plan
D-629-2	GWWD –Booster Pumping Station – Foundation Plan
D-629-3	GWWD –Booster Pumping Station – Basement Floor Plan
D-629-4	GWWD –Booster Pumping Station – Ground Floor Plan
D-629-5	GWWD –Booster Pumping Station – Upper Part of Ground Floor
D-629-6	GWWD –Booster Pumping Station – Longitudinal Section
D-629-7	GWWD –Booster Pumping Station – Cross Section & End Elevations
D-629-8	GWWD –Booster Pumping Station – Side Elevation
D-629-9	GWWD –Booster Pumping Station – Ground Floor Framing Plan
D-629-10	GWWD –Booster Pumping Station – Roof Framing Plan
D-629-100	GWWD –Booster Pumping Station – Alternate Heating Plan

D-1908	Tache Booster Pumping Station Instrumentation Location Layout and Electrical Power Layout
D-1952	GWWD – East Shaft
D-1953	GWWD – West Shaft
D-1954	GWWD – East & West Shaft
D-6302	Plan and Profile of Branch 1 Aqueduct From Joint J108-009 to Joint J110-006 from Mile 3.34 to Mile 3.55
D-6303	Plan Profile of Branch 1 Aqueduct
1-0660A-P0001-001	Tache Booster Pumping Station Process & Instrumentation Diagram Legend and Details Sheet 1 of 3
1-0660A-P0001-002	Tache Booster Pumping Station Process & Instrumentation Diagram Legend and Details Sheet 2 of 3
1-0660A-P0001-003	Tache Booster Pumping Station Process & Instrumentation Diagram Legend and Details Sheet 3 of 3
1-0660M-P0001	Tache Booster Pumping Station Process & Instrumentation Diagram Pump P-M041
1-0660M-P0002	Tache Booster Pumping Station Process & Instrumentation Diagram Pump P-M042
1-0660M-P0003	Tache Booster Pumping Station Process & Instrumentation Diagram Pump P-M043
1-0660M-P0004	Tache Booster Pumping Station Process & Instrumentation Diagram Miscellaneous
1-0660M-P0005	Tache Booster Pumping Station Process & Instrumentation Diagram HVAC
1-0660Y-P0001	Tache Booster Pumping Station Process & Instrumentation Diagram Surge Tank & Yard Piping

QUESTIONS AND ANSWERS

Q1 Have any of the Surge Tower recommendations in previous reports and studies been implemented?

A1 No, none of the previous recommendations have been implemented.

PHOTOS

Add: Photo 1: Tache Booster Pumping Station Roof



Add: Photo 2: Tache Booster Pumping Station Roof



Add: Photo 3: Tache Booster Pumping Station Roof



Add: Photo 4: Tache Booster Pumping Station Roof



Add: Photo 5: Tache Booster Pumping Station Roof



Add: Photo 6: Tache Booster Pumping Station Roof



Add: Photo 7: Surge Tower Roof



Add: Photo 8: Surge Tower Roof



Add: Photo 9: Surge Tower Roof



Add: Photo 10: Surge Tower Roof Hatch



Add: Photo 11: Surge Tower Roof Hatch



Add: Photo 12: Surge Tower Roof



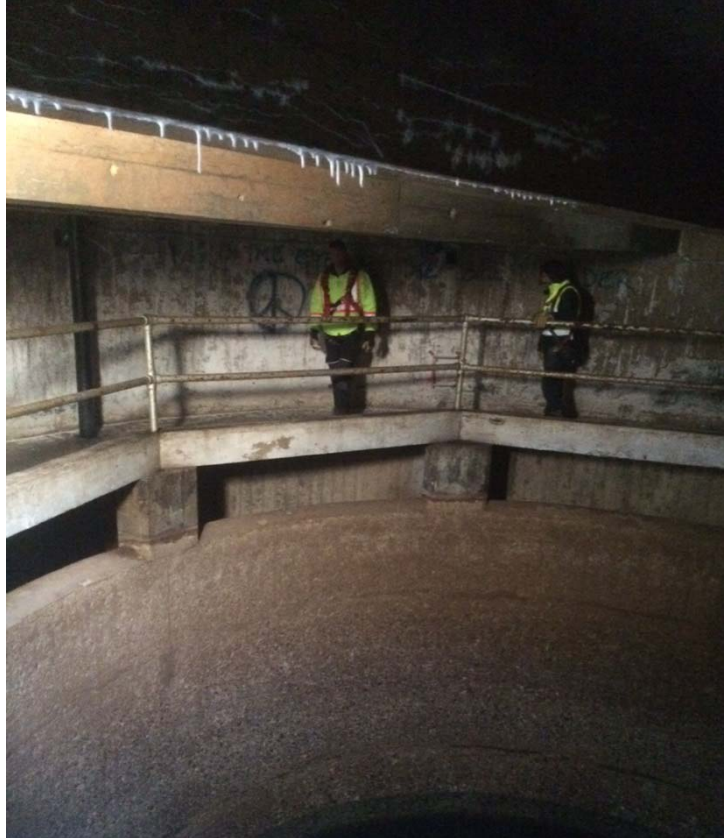
Add: Photo 13: Surge Tower Roof



Add: Photo 14: Surge Tower Roof



Add: Photo 15: Inside of Surge Tower



Add: Photo 16: Inside of Surge Tower

