

Project No.: R.074103.001

September 3, 2015

The following changes to the tender documents are effective immediately and will form part of the contract documents:

Specifications

1. Refer to Specification Section 01 11 00 Summary of Work and add the following item 1.3.5:

.5 **No Work to occur within the Fort walls during the following time period: May 1 – September 30.**

2. Refer to Specification Section 01 29 00 Measurement and Payment and add Article 1.3.6 Lump Sum Items as follows:

.6 Lump Sum Items

.1 The following items are to be included in the *Lump Sum Amount* located on the *Invitation to Tender Appendix 1 - Combined Price Form*.

.1 Forcemain: E-one Duplex Grinder Pump System

Work includes supply and installation of all fittings and materials required to install a duplex grinder pump system in the existing septic tank at the Visitor Centre including cleaning of existing tank, installing vent on existing tank, plugging existing discharge pipe, installing new discharge connection, installing outdoor control/alarm panel, providing power supply from existing Visitor Centre, testing, surface restoration and all incidental work for which payment is not specified elsewhere.

Measurement: Field verification of the percentage of work completed accepted and measured by the Departmental Representative.

.2 Siteworks: Topsoil and Seeding

Work includes placement of topsoil and seeding for regraded landscaped areas at the proposed WWTP site to grades shown on the design drawings and all incidental work for which payment is not specified elsewhere.

Measurement: Field verification of the percentage of work completed accepted and measured by the Departmental Representative.

.3 Siteworks: Site Grading

Work includes grading of landscaped areas at the proposed WWTP site to grades shown on the design drawings and all incidental work for which payment is not specified elsewhere.

Measurement: Field verification of the percentage of work completed accepted and measured by the Departmental Representative.

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- .4 Wastewater Treatment Plant: Substructure
- Substructure includes all works related to excavation, working base, reinforcement, water-stop, concrete foundation, beams, slabs, curbs, pads, backfilling, disposal of any excess material and as required by Div 01, Div 03, Div 31, Div 32 and all associated works for the Wastewater Treatment Plant for which payment is not specified elsewhere.
- Measurement: Field verification of the percentage of work completed.
- .5 Wastewater Treatment Plant: Superstructure
- Superstructure includes all works related to building system, masonry, architectural components, finishes, miscellaneous metals, equipment and accessories as required by Div 01, Div 04 to Div 13 (inclusive) and all associated works for the Wastewater Treatment Plant for which payment is not specified elsewhere.
- Measurement: Field verification of the percentage of work completed.
- .6 Wastewater Treatment Plant: Process Mechanical
- Process Mechanical includes the supply, installation, start-up of all process mechanical components including wastewater process equipment, piping, valves, miscellaneous equipment and services as required by Div 01, Div 40, Div 41, Div 46 and associated works for the Wastewater Treatment Plant for which payment is not specified elsewhere.
- Measurement: Field verification of the percentage of work completed.
- .7 Wastewater Treatment Plant: Building Mechanical
- Building Mechanical includes the supply, installation, start-up, testing, balancing of HVAC components and building plumbing as required by Div 01, Div 22 to Div 23 (inclusive) and associated works for the Wastewater Treatment Plant for which payment is not specified elsewhere.
- Measurement: Field verification of the percentage of work completed.
- .8 Wastewater Treatment Plant: Electrical, Instrumentation and Controls
- Work includes the supply, installation, loop-checks, start-up and monitoring of all electrical, instrumentation and control components including SCADA, electric heating (Section 23 82 00), stand-by power and miscellaneous components and services required by Div 01, Section 23 82 00, Div 25 to Div 28 (inclusive) and associated works for the Wastewater Treatment Plant for which payment is not specified elsewhere.
- Measurement: Field verification of the percentage of work completed.

- .9 Water Treatment Plant: Substructure
Substructure includes all works related to cutting, patching, water-stop, pipe encasements, concrete pads, curbs as required by Div 01, Div 03, Div 31, Div 32 and all associated works for the Water Treatment Plant for which payment is not specified elsewhere.
Measurement: Field verification of the percentage of work completed.
- .10 Water Treatment Plant: Superstructure
Superstructure includes all works related to building system expansion and modifications including, masonry, architectural components, finishes, miscellaneous metals, equipment and accessories as required by Div 01, Div 04 to Div 13 (inclusive) and all associated works for the Water Treatment Plant for which payment is not specified elsewhere.
Measurement: Field verification of the percentage of work completed.
- .11 Water Treatment Plant: Process Mechanical
Process Mechanical includes the supply, installation, start-up of all process mechanical components (including membrane treatment equipment), process piping, reservoir pipe penetrations, pipe easement, valves, miscellaneous equipment and services as required by Div 01, Div 40, Div 41, Div 43, Div 46 and associated works for the Water Treatment Plant for which payment is not specified elsewhere.
Measurement: Field verification of the percentage of work completed.
- .12 Water Treatment Plant: Building Mechanical
Building Mechanical includes the supply, installation, start-up, testing, balancing of HVAC components and building plumbing as required by Div 01, Div 22 to Div 23 (inclusive) and associated works for the Water Treatment Plant for which payment is not specified elsewhere.
Measurement: Field verification of the percentage of work completed.
- .13 Water Treatment Plant: Electrical, Instrumentation and Controls
Work includes the supply, installation, loop-checks, start-up and monitoring of all electrical, instrumentation and control components including SCADA, electric heating (Section 23 82 00), stand-by power and miscellaneous components and services required by Div 01, Section 23 82 00, Div 25 to Div 28 (inclusive) and associated works for the Water Treatment Plant for which payment is not specified elsewhere..
Measurement: Field verification of the percentage of work completed.
- .14 Selective Decommissioning: Existing well
Decommissioning of existing well shall include removal of existing well pump, electrical connections, fittings, pipes and debris from the well casing followed by filling from the bottom up using bentonite chips or pellets to form a well seal by a Registered and Qualified Well Driller c/w backfilling and site grading.

Measurement: Field verification of the percentage of work completed.

- .15 Selective Decommissioning: Existing Wastewater Treatment Plant
Decommissioning of existing Wastewater Treatment Plant including removal of all sewage, sludge, process equipment consisting of pumps, aeration devices, piping, valves, electrical panels, controls and all associated infrastructure from the existing treatment basins and all associated services required for which payment is not specified elsewhere. Included in this item is the costs associated with the removal of concrete pad as shown in Drawing C01.

Measurement: Field verification of the percentage of work completed.

- .16 Selective Decommissioning: Existing Water Treatment Plant
Decommissioning of selective components of the existing water treatment plant as shown in the drawings and for which payment is not specified elsewhere.

Measurement: Field verification of the percentage of work completed.

- .17 Additional Electrical: Electrical Service and Distribution Upgrade
Work includes upgrades required for electrical service, power distribution, transfer switch for stand-by generator as shown in the drawings and for which payment is not specified elsewhere.

Measurement: Field verification of the percentage of work completed.

- .18 Additional Electrical: Stand-by Generator
Stand-by Generator includes the supply, installation, start-up of all mechanical, electrical, instrumentation and control components including SCADA components including start-up, testing, fuel and all associated works and services required for which payment is not specified elsewhere.

Measurement: Field verification of the percentage of work completed.

- .19 Commissioning, Demonstration, and Training: Work includes commissioning, acceptance testing, demonstration and operator training, associated works and services related to Process Mechanical, Building Mechanical, Plumbing, Electrical, Instrumentation and Controls, Building Systems, Equipment and Specialties as required by the Contract Documents (Divisions 01, Divisions 02 to 46) for the Lower Fort Garry National Historic Site – Water and Wastewater Project for which payment is not specified elsewhere.

Measurement: Field verification of the percentage of work completed.

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Drawings

1. Refer to Drawing *C-02 VRC Water and Wastewater Sewer STA 1+000 to STA 1+250* and remove the following note and associated item: "RELOCATE EX HYDRANT 10.0m EAST TO ALLOW FOR FUTURE ROAD EXPANSION".

END OF ADDENDUM NO. 1