

**ADDENDUM NO. 2**

**TO**

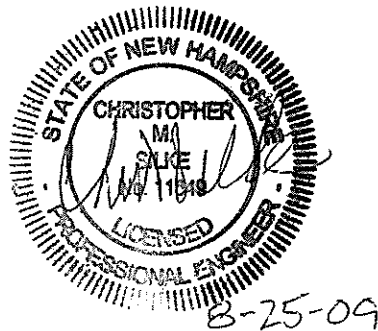
**City of Rochester  
Rochester, New Hampshire**

**BIDDING AND CONTRACT REQUIREMENTS AND SPECIFICATIONS**

**FOR**

**COCHECO WELL NO. 1  
WATER TREATMENT FACILITY**

**AUGUST 25, 2009**



**PREPARED BY:  
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## **ADDENDUM NO.2**

### **CITY OF ROCHESTER ROCHESTER, NEW HAMPSHIRE COCHECO WELL NO. 2 WATER TREATMENT FACILITY**

This addendum amends and/or supplements the bid documents as indicated below. Only these items alter the Bid Documents; any verbal discussions or responses are hereby declared null and void.

#### ***SPECIFICATIONS***

1. Specification Section A-3.5. **ADD** Bid Item No. 11. Description of the Item is "Furnish and Install Aggregate Base Course from Sta. 21+75 to 71+33 on Access Road. The Sum of \_\_\_\_\_ per Cubic Yard." The approximate quantity is 4,000 yds<sup>3</sup>.

2. Section 11150A. **ADD** the following to Part 1.9 Description of Pay Items:  
(11) Aggregate Base Course Sta. 21+75 to 71+33 on Access Road

The quantity of aggregate base course material paid for under this item shall be for building up the Access Road from Station 21+75 to 71+33 where existing subgrade material is insufficiently thick or has undesirable soil properties as determined by the Engineer.

The 4-inch aggregate leveling and surface course shall be paid for under Item 1.

The unit price as stated in the Bid Schedule shall constitute full compensation for furnishing, placing and compacting gravel borrow as specified.

3. Specification Section 02628A. Part 2.2, Pipe Schedule, **CHANGE** Electrical Conduit and Raw Water Main SDR from 21 to 11 due to the horizontal drill length. **CHANGE** Working Pressure Rating for Raw Water Main to 160 psi.
4. In the TABLE OF CONTENTS under DIVISION 15- MECHANICAL, **ADD** Section 15971 Storage Tank Heat Exchanger.
5. Refer to attached Specification Section 15971 Storage Tank Heat Exchanger for Type, Model and Capacity.

## ***DRAWINGS***

1. Drawing E-11. **CHANGE** conduits P-11 and P-26 from Rigid Galvanized Steel to PVC within the directionally drilled HDPE sleeve.

SECTION 15791STORAGE TANK HEAT EXCHANGERPART 1 - GENERAL1.1 DESCRIPTION

- A. Furnish and install where indicated on the Drawings a storage tank heat exchanger for the water source heat pump system as detailed herein.
- B. Related Work Specified Elsewhere:
  - 1. Heating and Ventilating - General is specified in this Division.

1.2 QUALITY ASSURANCE

- A. Verifications of capacity: Supply manufacturer's certificate of output for heat exchangers at conditions specified.

1.3 DELIVERY, STORAGE AND HANDLING

- A. Delivery: Deliver all products and materials in original containers as job progress requires.
- B. Storage: Store all products and equipment in watertight buildings and keep dry at all times.
- C. Handling: Handle products and materials to prevent damage of any nature.

1.4 SUBMITTALS TO THE ENGINEER

- A. Submit shop drawings for approval in accordance with the General Conditions.
- B. Submit three (3) copies of manufacturer's installation, maintenance, and operation manuals for all equipment furnished in a bound document.
- C. Submit a list of local facilities to obtain spare parts for all equipment.
- D. Submit a list of manufacturer approved service organizations for all equipment.
- E. Submit manufacturer's warranty.

PART 2 - PRODUCTS2.1 MATERIALS

- A. Heat exchanger coils shall be heavy gauge steel construction with a porcelain enamel coating.
- B. Sacrificial Anode
- C. Capacity 108.6 gallons
- D. 3" urethane foam insulation on tank.
- E. Working pressure- 150 psi. Test pressure- 217 psi. Maximum heat exchanger pressure- 150 psi.
- F. Top heat exchanger surface area- 2015 sq. in. Bottom heat exchanger surface area- 2635 sq. in.
- G. Stiebel Eltron SBB 400 Plus or equal

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install as specified by the manufacturer and as shown on the project drawings.
- B. Provide SHUT OFF valves, balancing valves, air vents, thermometers and pressure gauges as required by the unit manufacturer and as indicated.

3.2 ADJUSTING

- A. Adjust flow rates for the coil side and tank side as specified in the Circulating Pump Schedule on the Drawings.
- B. Adjust operation of the heat exchanger to the satisfaction of the Engineer.

END OF SECTION