



# City of Cambridge

## PURCHASING DEPARTMENT

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Amy L. Witts  
Purchasing Agent

**TO:** All Bidders

**FROM:** City of Cambridge

**DATE:** February 29, 2016

**RE:** File No. 7132 –Pumping System Improvements at the Walter J. Sullivan Water Purification Facility- Addendum No. 2

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This addendum is comprised of:

1. Questions and Answers
2. Technical Specification Revisions

The following questions were asked and answered:

**Question:** NEC/Emerson Process Mgmt would like to propose an EQUAL system for the Pump and Motor Vibration Monitoring System called out in subject project. Section 40 77 19 – 3. We would like to know the number of Velomitor CT transducers that are being requested to be installed to monitor Raw Water motor and pump, and if same configuration of sensor applies for Alternate #1 Finished Water Pump.

**Answer:** Yes, “or equal” products may be proposed.

Additional information on the referenced transducers is provided in Section 43 24 13 Vertical Turbine Pumps ¶2.06G. See specification revision below.

The same number and configuration of sensors is required for each raw water motor. If Add Alternate #1 is awarded, the same number and configuration of sensors is required on each finished water motor. Note that Section 40 77 19 ¶1.01B specifies Add Alternate #1 requirements for the Pump and Motor Vibration Monitoring System.

**Question:** Section 40 05 23.86 Part 3.01 C/D requires the GC to design, build/supply and then TURN OVER TO THE OWNER a flushing cart. Please provide additional specifications and or clarifications and requirements.

**Answer:** See technical specification revision.

**Question:** Insurance specification mentions Railroad Protective Liability insurance to be provided is required by an abutter, permittee or other. Can you clarify if this is in fact being required?

**Answer:** This Insurance is required.

**Question:** Does this contract require \$15M Umbrella Insurance? Industry standard is \$5M. Please clarify.

**Answer:** \$15M Umbrella Insurance is what the City Requires.

All other details remain the same.

Amy L. Witts (ns)

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Addendum No. 2

Technical Specification Revisions

File No. 7132

Pumping System Improvements at the Walter J. Sullivan Water Purification Facility  
City of Cambridge, Massachusetts

Prepared by CDM Smith Inc.

February 26, 2016

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**TECHNCAL SPECIFICATIONS**

1. In Section 40 05 23.86 – Requirements for Stainless Steel Hydraulic Pipe and Tube, **DELETE** the last sentence in ¶3.01.C and **REPLACE** with the following:

“All temporary hydraulic hose and connectors shall be furnished by the hydraulic systems flushing service provider.”

2. In Section 40 05 23.86 – Requirements for Stainless Steel Hydraulic Pipe and Tube, **REPLACE** ¶3.01.D with the following:

“Submit a detailed cleaning and flushing procedure. The flushing flow shall be a minimum of 10.5 gpm to achieve complete turbulence at the pipe wall. The Contractor shall provide and coordinate the services of a hydraulic systems flushing service provider.”

3. In Section 41 24 26 – Hydraulic Power Unit, **REPLACE** ¶ 2.17.A with the following:

“The Contractor shall be responsible for furnishing all of the hydraulic oil required to commission the system, including flushing oil. Hydraulic oil used to fill the system shall be prefiltered to ISO Cleanliness Level 18/16/13 by the Supplier prior to shipping to the site. Hydraulic oil drained from the HPU and fluid power piping system shall be removed from the site and lawfully disposed of, in accordance with all statutes and codes having jurisdiction at the Site.”

4. In Section 43 24 13 – Vertical Turbine Pumps, **DELETE** ¶2.06.G.4 and **INSERT INSTEAD** the following:

“2.06 G

4. Bearing vibration sensors: A total of five sensors shall be provided on each motor. Three sensors for the X, Y, and Z axis shall be installed at the top of the motor, and two sensors for the X and Y axis at the base of the motor. Sensors shall in accordance with Section 40 77 19.”

**DESIGN PLAN REVISIONS**

1. Related to LP-FG1: On Drawing E-9, **REPLACE** the text of Note 4 in its entirety with: "Contractor shall utilize existing Panelboard LP-FG1 20A 1-Pole spare circuit breakers to feed Pump Room 120V loads, including the Vibration Panel, Emergency Valve LCP, and Finished Water Pump Control Valve LCPs. Refer to Drawing E-8."
2. Related to the plunger valves:
  - A. On Drawing E-9, **REPLACE** the text of Note 5 in its entirety with: "Conduit and wiring shall be 3/4" C., 3#10, 1#10(G). The conduits shall be installed from the Electrical Room to the Pipe Gallery through the Filter Gallery, taking the same routing as proposed for the new Raw Water Pump VFD conduits, but continuing to the Pipe Gallery and to the new valves; refer to Drawing E7, Notes 1, 2, and 6."
  - B. On Drawing E-9, **DELETE** all references to power panel PP-MS, including the Maintenance Area Partial Plan.
  - C. On Drawing E-3, **ADD** Note 6: "Install two (2) new 30A 3-Pole circuit breakers in Section 3 (MCC-PR-1) and Section 8 (MCC-PR-2) for connection to new Pipe Gallery plunger valves. New circuit breakers shall be by the same manufacturer as the existing MCC and shall be equal in all aspects, including short-circuit rating."