



City of Cambridge

PURCHASING DEPARTMENT

795 Massachusetts Ave. • Cambridge, Massachusetts 02139-3219

Amy L. Witts
Purchasing Agent

TO: All Bidders

FROM: City of Cambridge

DATE: February 19, 2016

RE: File No. 7132 –Pumping System Improvements at the Walter J. Sullivan Water Purification Facility- Addendum No. 1

This addendum is comprised of:

1. Pre-bid Meeting Agenda including Sign-in sheet

The questions deadline for Filed Sub bids is extended from February 18, 2016 no later than 5:00PM to February 25, 2016 no later than 5:00PM.

The questions deadline for General bids is extended from February 18, 2016 no later than 5:00PM to March 10, 2016 no later than 5:00PM.

All other details remain the same.

Amy L. Witts
Purchasing Agent

Addendum No. 1

Pre-Bid Conference
Tuesday, February 16, 2016 @ 10:00 AM
Walter J. Sullivan Water Purification Facility
Cambridge Water Department
City of Cambridge, Massachusetts

Project: File No. 7132 - Pumping System Improvements at the Walter J. Sullivan Water Purification Facility, January 2016

Filed Sub-Bids Due: Thursday, March 3, 2016 @ 2:00 p.m.
Purchasing Department
City Hall
795 Massachusetts Avenue, Room 303
Cambridge, MA 02139

General Bids Due: Thursday, March 17, 2016 @ 2:00 p.m.
Purchasing Department
City Hall
795 Massachusetts Avenue, Room 303
Cambridge, MA 02139

Questions:

- Deadline for questions: 5:00 p.m., ~~Friday~~Thursday, February 18, 2016
- All questions must be directed to the City of Cambridge Purchasing Department via facsimile 617-349-4008 to Amy L. Witts, Purchasing Agent
- Requests for site visits must be directed to the City of Cambridge Purchasing Department

Bidding Procedures:

- M.G.L. Ch. 149
- DCAM Certification:
 - General: Sewer and Water Treatment Plants
 - Filed Sub-bids: Electrical and Painting

Project Description:

- Overall objective is to improve operating efficiencies of the WPF raw water, finished water and backwash pumping systems to reduce energy costs.
- Provide all equipment, install and make fully operable pumping system and valve improvements to each of the Raw Water, Finished Water, and Backwash Systems at the WPF.

Base Bid

- Raw Water: In the Pump Room, replace each of four existing 10 mgd pumps & 150 hp motors; replace pump train valves and piping; add variable frequency drive (VFD) controllers to each pump. In the raw water gallery – to each piping train - replace pipe and valves including addition of new electrically-actuated plunger type control valves and butterfly valves.
- Finished Water: In the Pump Room, replace valves and piping for each of the 4 finished water pump systems, including addition of new hydraulically-actuated AWWA butterfly pump control valves (PCVs) for each, all served by one new medium-pressure centralized oil hydraulic power unit (HPU) and controls.
- Finished Water Emergency Valve: In the Filter Gallery, replace the existing emergency isolation valve with a hydraulically-actuated AWWA butterfly valve, powered by the new HPU; replace pipe and appurtenances specified.
- Backwash System: In the Pump Room, replace valves, piping and appurtenances of each of the two pump trains.
- Provide and make fully operational a pump vibration asset management system and pump performance monitoring system to serve both the Raw and Finished Water Systems. Shared workstation to be housed in the Control Room.
- For the Raw Water System, install and make fully operational a Pump and Motor Vibration Monitoring System to provide equipment protection that communicates exceedances of vibration set-points to the VFD for automatic shut-down of the pumps and motors.
- All associated demolition, mechanical, electrical, instrumentation, painting, etc., for the above.
- Startup, testing, training and O&M manuals, etc.

Add Alternate No. 1

- Finished Water: Replace existing 450 hp motors and VFDs for each of the four finished water pumps.
 - Expand the Pump and Motor Vibration Monitoring System of the Raw Water System (see above) to the Finished Water System.
 - All associated demolition, electrical, and instrumentation, etc., for the above.
 - Startup, testing, training and O&M manuals, etc.
 - Note: Electrical filed sub-bid required for Add Alternate No. 1.
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- Contractor to provide services of a Process Control System Supplier (PCSS) for instrumentation and control. City will independently hire an Applications Engineering System Supplier (AESS) to provide PLC programming
 - Office space (temporary) to be provided in the WPF Main Building – furnished cubicle. Contractor responsible for telephone, computer, cables, printer, facsimile, phone/internet connection services, office supplies, file cabinets, etc. (Section 01 13 10 – Special Provisions).

Alternatively, Contractor can provide a temporary trailer limited to locations shown in Section 01 13 10.

- Staging/storage allowed in Pump Room only in designated areas (Section 01 13 10 – Special Provisions)
- Designated areas available outside for “pod” type storage containers.
- Coordinate work to maintain water treatment operations to the fullest extent possible. Detailed sequencing requirements, with expressed shutdown limitations (Section 01 12 16 – Construction Sequence and Constraints and associated plans).
 - WPF staffed 24/7 with personnel available.
 - Contractor shall work continuously 24/7 from initiation of WPF Downtime to WPF Normal Operations, in order to minimize the duration of the Downtime.
 - New facilities installed are to be immediately subject to testing/inspection so they can assume operations (i.e., sequencing of raw water pump system installations, etc.).
- Formal shop drawing review process (Section 01 30 00 – Submittals)
- Contractor responsible for preparation of record drawings – electronic deliverable (Section 01 30 00 – Submittals)

Contract Duration:

- 540 calendar days (18 months)
- Selection of Add Alternate No. 1 will not extend completion time of 540 calendar days.
- All on-site construction work to occur continuously over a six month period to completion following Contractor’s receipt of all long-lead time equipment (i.e., pumps, motors, VFDs, valves and HPU).

Bid: Single lump sum for each of base bid and add alternate. Additional City forms required.

Facility Walk-Through:

- Pump Room
- Raw Water Pipe Gallery
- Filter Gallery (location of finished water emergency valve)
- Electrical Room
- Control Room
- Office space location
- Storage areas outdoors
- Other areas upon request

Sign-in Sheet
 Pre-Bid Conference
 Tuesday, February 16, 2016 @ 10:00 AM
 File No. 7132: Pumping System Improvements
 at the Walter J. Sullivan Water Purification Facility
 City of Cambridge, MA

Name	Company	Address	Contact Information (Tel/Email)
Tom O'Neil	CWD		617-349-4773
Andy Miller	CDM Smith	Boston, MA	617-452-6532
GREG WHITE	NEC	MASSFIELD, MA	774-266-5103
Paul Brancosini	Rt White	AUSUM MA	508-269-7939
JOE LAVIN	RH WHITE	AUBURN MA.	508-832-8295
Derek Martineau	Waterline Industries	Seabrook, NH	603-474-7477
GARY ROBINSON	RA WHITE CONS	41 CENTRAL ST AUBURN, MA	508-832-3295
Al Oster	Losordo Electric	277 Liberty St. Unit 8A Brockton MA	508-436-7898 alosfer@losordoelectric.com

Name	Company	Address	Contact Information (Tel/Email)
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SAM COROA	CWD		617-349-4796 SCOROA@CAMBRIDGEMA.GOV