

**Addendum No. 1**  
**RAS Pump Replacement**  
**Pilot Project (RSP-5 and RSP-6)**  
**Capital Project No. 1859**

This Addendum No. 1, dated July 13, 2018, to the Invitation to Bid: RAS Pump Replacement Pilot Project (RSP-5 and RSP-6), Capital Project No. 1859, bid opening July 18, 2018 at 2:00 pm, supersedes all contrary and conflicting information in the above-mentioned instructions, specifications, and contract documents which are hereby supplemented or revised in certain particulars as follows:

**AD1-1 General Information**

The District submits this Addendum to provide new information and to change existing information for potential respondents.

**AD1-2**

Minutes and sign-in sheet of the mandatory pre-bid meeting held on July 10, 2018 are attached to this addendum.

**AD1-3 Specification Section 03300 Cast-In-Place Concrete**

Following paragraph 2.05, insert the following new paragraph 2.06:

“2.06 Concrete Patching Mortar

- A. Concrete slab patching that is 2” or less in thickness shall use the following products:
  - a. MasterEmaco S 466CI
  - b. ThoRoc LA40 Repair Mortar
- B. Bonding agent, recommended by the selected patching mortar manufacturer, shall be utilized for all concrete repairs.
- C. Preparation and installation shall adhere to the manufacturer’s printed instructions, unless otherwise required.”

**AD1-4 Specification Section 11304 Submersible Solids Handling Pumps and Appurtenances**

Item 1 of 3, paragraph 2.08 Control System, update the sub-paragraph numbers J to A, K to B, and L to C.

Item 2 of 3, paragraph 2.08.A.1, last sentence delete the word “for each pair of pumps” and replace with the words “for each pump”.

Item 3 of 3, 2.08.C.35.b, delete the words “remote common alarm” and replace with the words “remote signal of both alarms above”.

**AD1-5 Sheet 8 of 9**

Electrical Notes, following note 9 add the following new notes:

“10. 120 volt power enters pump house 6 on the east side of the building and exits on the west side of the building. The 1” conduit shall be intercepted and routed up to the new junction box, for the one 2” and two 4” conduits. The receptacle and/or lighting wires shall provide power for the new receptacle required per note 9. After slab removal the conduit shall be extended through the former pump house slab area and the lighting wires reconnected past the pump house.

11. All new wire shall be type THWN copper wire.

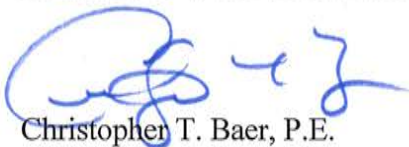
12. Flight drive switch boxes per note 3 can be re-used if they are NEMA 4X stainless steel.”

This information shall be taken into consideration by bidders when preparing the bid. Bidders shall acknowledge all project addenda on Proposal Form. This addendum and attachments will be emailed to all plan holders as well as posted on District’s website at [www.rwrwd.dst.il.us](http://www.rwrwd.dst.il.us).

END OF ADDENDUM NO. 1

Issued July 13, 2018

**Rock River Water Reclamation District**



Christopher T. Baer, P.E.  
Engineering Manager

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**RAS Pump Replacement Pilot Project (RSP-5 and RSP-6)**  
**Capital Project No. 1859**  
**Pre-bid Meeting – July 10, 2018**

**General:**

Sign-in sheet is attached for this mandatory pre-bid meeting.

Bids due at 2:00 P.M. Wednesday, July 18, 2018 at the Rock River Water Reclamation District (RRWRD) office, at which time bids will be opened and read aloud. Conditional bids will not be read. Recommendation for contract award will be made at the July 23 Board meeting. Bid packages are to include proposal on District bid form, equipment questionnaire form, bid security on District form (10% of bid amount), completed Fair Employment Practices Affidavit on District form, and Contractor's statement of qualifications. Apparent low bidder to submit their Schedule of Values, with subcontracted work identified, before 3:00 pm on Thursday July 19.

This is a lump sum contract; bid shall include all work associated with the project to provide a complete functional system. Contractor shall perform at least 40% of the project with their own forces. Warranty is 2 years from acceptance of the work.

Written questions should be submitted to RRWRD no later than noon on July 13, 2018 to allow time to address by addendum. An addendum will be issued with this meeting's notes, sign-in sheet, and other modifications as necessary.

**Project Schedule:**

Shop drawing submittals are expected early in the project for main equipment and materials. For scheduling, assume two weeks RRWRD review time for each submittal.

Contractor's schedule shall consider plant operations, requiring return sludge systems to remain functional throughout the project except as specifically indicated.

The project shall be fully complete, including all restoration and close out documentation, by December 31, 2018. Liquidated damages shall be \$300 per calendar day for completion following this final completion deadline.

Pay requests should be submitted to the District by the 5<sup>th</sup> day of the month for consideration at that month's Board meeting. Retention is 10% of each pay application. Certified payroll and waivers of lien are required for each application for payment.

Sequencing is critical to maintain operation of the treatment systems throughout the project. Contractor shall attempt to return at least one final clarifier to serviceable condition as soon as practical.

Existing system outages necessary to complete work shall be requested at least 7 days in advance of the planned outage. Outage requests shall include a detailed schedule and sequence of activities; request shall verify that all required materials are on site. Additional time may be necessary in order to prepare for taking a process off line, such as for reducing sludge inventories prior to shut down of four clarifiers' return piping for connections.

Contractor activities shall not obstruct RRWRD access to active equipment near the work area.

## **Project**

Project generally consists of:

1. Shop drawings, O&M manuals, training, and as-built mark-up drawings.
2. Install and start up all new Contractor supplied materials and equipment.
3. Contractor to provide their own equipment for completion of work; RRWRD's existing equipment is not available for Contractor use.
4. Disconnect power and water supplies to existing RSP-5 & RSP-6 pump house and associated equipment. Remove water piping, backflow preventer, and electric as shown.
5. Remove existing wood frame fiberglass batt insulated, metal sided building and support curbing; properly dispose of all demolished materials off-site.
6. Two existing return activated sludge pumps (RSP-5 and RSP-6), piping, and controls shall be removed and turned over to RRWRD on the concrete pad west of the Aeration Building.
7. Shore slab and remove the top 9" +/- triangular shaped concrete slab and steel from top of the original 7" thick elevated slab; minimize damage to 7" slab. Saw cut edges and chip out upper 2" +/- of the 7" slab per details and cut off dowels from 9" slab into the 7" slab. Chip out full depth portion of slab surrounding the proposed pump hatches to allow new reinforcement to be tied to the existing reinforcing steel.
8. Making new openings in the existing final clarifier slabs shall be performed in conjunction with the concrete repair work. The 2 new pump hatch openings shall not be larger than necessary for removal and replacement of the new submersible pumps. The hatches, with safety grate fall protection, shall therefore be supplied by the pump supplier.
9. Excavate plant water main and cap 1" +/- seal water connection that fed the pump house.
10. Two new return activated sludge pumps, pump bases, pump rails, pump retrieval cables, submersible power/control cables, and pump panels shall be provided and installed to replace RSP-5 & RSP-6 lineshaft pumps.
11. These pumps typically operate 24 hours per day, 7 days per week; non-clogging and high efficiency of the pump are critical and shall meet the specified requirements.
12. All new electrical conduit shall be PVC coated rigid metal.
13. All new electrical panels and boxes shall be NEMA 4X stainless steel.
14. All new electrical wire shall be type THWN copper wire.
15. Existing RSP-5 and RSP-6 VFDs and wiring from the VFDs to the pump house junction chamber shall be re-used with termination strips installed in a new junction box where the existing one 2" and two 4" conduits terminate at the removed pump house.
16. Existing wiring from MCC-8 in Aeration Building to removed pump house for Primary Clarifier 5 South and Primary Clarifier 6 South flight drive motors can be re-used, with new termination strips added in the new NEMA 4X junction box required as part of this project.

17. Existing reversing switches for each of the 4 associated flight drive motors shall be relocated to new NEMA 4X stainless steel boxes, located near the drive motors as indicated.
18. Control wiring shall be installed and labeled by Contractor. Terminations in existing plant control system PLC cabinets will be performed by RRWRD. New wiring that is required to and from, along with all terminations in the new panels, shall be performed by Contractor.
19. Restoration around the pump house and work area shall be limited to filling excavations with compacted crushed stone; Contractor shall minimize the amount of pavement removed. Disturbed grass areas shall be restored with at least 6" of top soil, seeding with an IDOT Class 1 seed mix, fertilizing, and mulching.

**Miscellaneous:**

Contractor will be issued two gate fobs for duration of the project; Fobs need to be returned prior to final payment. Contractor shall coordinate access for their employees and their subcontractors. No contractor deliveries to be received by RRWRD.

Contractor parking and staging areas are shown on the drawings. A site trailer will not be a requirement for this project. However, Contractor toilet and wash facilities shall be located within the designated areas. If Contractor elects to have a site trailer, a source for 480 volt electric power can be arranged for the Contractor's trailer, requiring Contractor to install a meter and pay RRWRD for power used, currently RRWRD's cost is approximately \$0.09 per kW-Hr.

Project status meetings shall be conducted by the Contractor on-site every other week. Minutes of the meetings shall be Contractor prepared and submitted to all attendees.

This is a process related equipment replacement project necessary to continue meeting our NPDES permit; a building permit with the City of Rockford will not be obtained.

RRWRD might hire a testing agency to monitor quality assurance for portions of the work. Contractor is responsible for their own quality control, testing, and monitoring.

**Pre-bid Meeting Questions & Answers**

- 1) Does the project require any bypass pumping?
  - a. No process bypass pumping is required but you may need to pump some Return Activated Sludge out of the RAS pipeline when the existing pump discharge isolation valves are removed and pipe cut for new valve installation.
- 2) Is there any special concrete required for the thin overlay areas?
  - a. Concrete patching that is 2" thick or less shall use MasterEmaco S 466CI or ThoRoc LA40 Repair Mortar, with all other thicker concrete a 4,500 psi mix per Section 03300.
- 3) What is the depth of sump?
  - a. See details on sheets 5, 6, and 7.
- 4) Is there work in 2 pump houses?
  - a. The work of this project only involves Pump House 6. The section cut on Pump House 2 is representative of the conditions at Pump House 6.

- 5) Can the shoring be eliminated if the Contractor's operations will not damage the existing 7" slab?
  - a. Due to the unknown conditions, we expect shoring to be installed beneath the slab where concrete demolition and repair work is being performed. This Pilot Project is intended to determine if work can be eliminated or improved upon when the other 10 tanks are bid.

Date: Tuesday, July 10, 2018  
Time: 1:00 p.m.

**Pre-Bid Meeting Attendance Sheet**  
**Project: RAS Pump Replacement Pilot Project (RSP-5 and RSP-6), Capital Project No. 1859**

Name of Company	Address	Name of Company's Representative	Phone Number	Email Address
Special Power	1226 18th Avenue, Rockford, IL 61104	Mike Vlasnik	815.962.1210	<a href="mailto:mike@specialpower.com">mike@specialpower.com</a>
Sjostrom and Sons, Inc.	1129 Harrison Avenue, Rockford, IL 61104	Collin Martinovich	815.226.0330	<a href="mailto:cmartinovich@sjostromconstruction.com">cmartinovich@sjostromconstruction.com</a>
Kelsey Excavation	17855 W. Campbell Rd, Davis, IL 61019	Michaela-Lee Kelsey	815.262.0626	<a href="mailto:kelseyexc@gmail.com">kelseyexc@gmail.com</a>
Xylem-Flygt	9661 194th Street, Mokena, IL 60448	Denny Weber	224.500.8409	<a href="mailto:denny.weber@xyleminc.com">denny.weber@xyleminc.com</a>
Mechanical Inc.	2279 Yellow Creek Road, Freeport, IL 61032	Aaron Bonnell	815.590.3143	<a href="mailto:abonnell@mechinc.com">abonnell@mechinc.com</a>
Civil Constructors Inc.	2283 Route 20 East, Freeport, IL 61032	Darin Baughman	815.297.8540	<a href="mailto:dbaughman@civilinc.com">dbaughman@civilinc.com</a>
Stenstrom General Contractor	2420 20th Street, Rockford, IL 61104	Dave Dinges	815.398.2420	<a href="mailto:daved@rstenstrom.com">daved@rstenstrom.com</a>
Pump Supply Inc.	860 Church Road, Elgin, IL 60123	Jason Gray	847.841.7867	<a href="mailto:jasong@pumpsupplyinc.com">jasong@pumpsupplyinc.com</a>
Morse Electric	1390 Gateway Blvd, Beloit, WI 53511	Verlyn Swanson	608.425.9444	<a href="mailto:vswanson@themorsegroup.com">vswanson@themorsegroup.com</a>