

ADDENDUM NO. 1
TO THE CONTRACT DOCUMENTS
for the construction of the
NATOMAS MUTUAL WATER COMPANY
RIVERSIDE PUMPING PLANT REPLACEMENT

Date: April 1, 2022
Project No.: W8Y09800

To All Planholders and/or Prospective Bidders:

The following changes, additions, and/or deletions are hereby made a part of the Contract Documents for the construction of the Natomas Mutual Water Company Riverside Pumping Plant Replacement, dated March 2022, as fully and completely as if the same were fully set forth therein:

A. SPECIFICATIONS

Section 44 42 56.04, Submersible Pumps

1. ADD new Section in its entirety with the attached.

All Bidders shall acknowledge receipt and acceptance of this Addendum No. 1 in the Bid Form or by submitting the Addendum with the bid package. Bid Forms submitted without acknowledgment or without this Addendum will be considered in nonconformance.

JACOBS



Brad Memeo, Project Manager

Appended hereto and part of Addendum No. 1:

- A. Section 44 42 56.04, Submersible Pumps.

END OF ADDENDUM NO. 1

**SECTION 44 42 56.04
SUBMERSIBLE PUMPS**

EQUIPMENT NUMBERS

Sediment Jetting/Washdown Pump: RPP-P-WD.

PART 1 GENERAL

1.01 DEFINITIONS

- A. Terminology pertaining to pumping unit performance and construction shall conform to ratings and nomenclature of Hydraulic Institute Standards (HIS).

1.02 SUBMITTALS

A. Action Submittals:

1. Make, model, weight, and horsepower of each equipment assembly.
2. Complete catalog information, descriptive literature, specifications, and identification of materials of construction, including cable seal details.
3. Performance data curves showing head, capacity, NPSH_R, horsepower demand, and pump efficiency over entire operating range of pump, from shutoff to maximum capacity. Indicate values separately at the guarantee point.
4. Power and control wiring diagrams, including terminals and numbers.
5. Motor data, in accordance with the requirements of Section 26 20 00, Low-Voltage AC Induction Motors.
6. Factory-finish system.
7. L-10 bearing life calculations per ABMA.

B. Informational Submittals:

1. Special shipping, storage and protection, and handling instructions.
2. Manufacturer's printed installation instructions.
3. Factory Functional Test Reports.
4. Suggested spare parts list to maintain equipment in service for period of 1 year and 5 years. Include list of special tools required for checking, testing, parts replacement, and maintenance with current price information.
5. List special tools, materials, and supplies furnished with equipment for use prior to and during startup and for future maintenance.
6. Operation and Maintenance Data as specified in Section 01 78 23, Operation and Maintenance Data.

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PART 2 PRODUCTS

2.01 MANUFACTURERS AND PRODUCTS

- A. Grundfos Pumps Corporation; Series 85S50.
- B. “Or-equal”.

2.02 SERVICE CONDITIONS

- A. Installation: Top-feed suction can configuration as shown on Drawings. Furnish pump and motor assembly with a stainless steel flow shroud designed to direct water flow past the motor for motor cooling. Flow shroud dimensions shall be as required to provide adequate cooling flow as recommended by the motor manufacturer.
- B. Liquid Pumped: Raw river water.
- C. Liquid Temperature: 40 to 80 degrees F.

2.03 PERFORMANCE REQUIREMENTS

- A. HIS Acceptance Grade: 1U.
- B. Rated Condition: 105 gpm at 110 feet TDH.
- C. Secondary Condition: 45 gpm at not less than 190 feet TDH.
- D. Minimum Shutoff Head: 200 feet TDH.
- E. Maximum Brake Horsepower: 5.0 at any pumping condition.

2.04 CONSTRUCTION DETAILS

- A. General: Submersible multi-stage well-type pump, with integral check valve, lifting eyes, motor cooling flow shroud, and suitable for installation in 8-inch and larger casings.
- B. Discharge Connection: 3-inch NPT.
- C. Materials:
 - 1. Housings, Shafts, Impeller, Check Valve, Cable Guard: Type 304 stainless steel.
 - 2. Motor Stator and Rotor: Type 304 stainless steel.
 - 3. Motor Cooling Flow Shroud: Type 304 stainless steel.

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4. Motor Bearings: Carbon thrust bearing and ceramic tungsten carbide radial bearing.
5. O-Rings and Seals: NBR rubber.
6. Fasteners: Stainless steel.

D. Motor:

1. 5-hp, 460-volt, three-phase, 60 Hz, 1.15 service factor.
2. Housing sealed and filled with FDA/NSF approved lubricant.
3. Factory-installed submersible cable, length as required.
4. Rated for minimum 15 starts per hour.

2.05 SOURCE QUALITY CONTROL

- A. Functional Test: Perform manufacturer's standard tests on equipment.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install in accordance with manufacturer's printed instructions.

3.02 FIELD QUALITY CONTROL

- A. Functional Test: Test for specified flow and head.

END OF SECTION