



CITY OF RAPID CITY

Engineering Services

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November 19, 2008

PW112508-10

Public Works Committee/Common Council

Re: Request Authorization to Seek Proposals for Engineering Services for
WRF non-potable water system pump, pressure tank, and disinfection system
replacement, Project WRF08 – 1770

Engineering Services staff requests authorization to issue a Request for Proposals and to select an Engineering Consultant to provide project evaluation, design, bidding, and construction administration services in accordance with the Public Works Department's Consultant Selection Process.

Within the basement of the old administration/operations building, the facility's non-potable duplex pump system resides. The system consists of two duplex pumps connected to a large steel pressure tank and a disinfection chemical feed system. The system is used for wash down and other operation needs and during the summer the system is also used for irrigation.

The system is old and has outlived its useful life. It is experiencing severe corrosion problems, space utilization is not productive, and maintaining the system has become problematic.

Anticipated project components are:

1. Demolition of the old heating boiler system within the basement to provide space for a new duplex pumping system,
2. Rehabilitation of the access through the floor of the building for loading dock and equipment removal/install,
3. Replacement of the pressure tank system,
4. Replacement of the disinfection chemical feed system,
5. Replacement of all piping within the basement that is used for the non-potable system, and
6. Incorporation of the pump control system with the Siemens control system for the WRF.



EQUAL OPPORTUNITY EMPLOYER

The consultant selected for this project shall also evaluate other locations for the non-potable duplex pump system and provide recommendations for pump replacement in the existing basement location or other locations at the WRF that may be more economical, or in the long term, better benefit the operation of the facility.

The project is funded from the Water Reclamation Operations Fund. The project budget is \$255,000, which includes design and construction costs.

Staff proposes to bid and construct the project in 2009.

Sincerely,

Stacey Titus, P.E.
Project Manager

cc: Robert Ellis, Public Works Director
Dale Tech, City Engineer
Dave VanCleave, Water Reclamation Superintendent