
CITY OF TEMPE
REQUEST FOR COUNCIL ACTION**Council Meeting Date: 1/09/2014**
Agenda Item: 5B14

ACTION: Award a professional services contract to Arcadis U.S., Inc. for design and programming of the supervisory control and data acquisition system for water storage tanks located on Belle, Hayden, and Papago Buttes.

FISCAL IMPACT: The professional services contract amount is \$697,824. Funds to cover this contract and related costs are appropriated for fiscal year 2013/14 in Capital Improvement Project No. 3204409, SCADA Master Plan and Implementation.

RECOMMENDATION: Award the professional services contract.

BACKGROUND INFORMATION: The supervisory control and data acquisition (SCADA) system allows remote operation, monitoring, and automated control of critical water treatment and delivery systems. The use of SCADA provides staff with such real-time information as equipment operating status, system conditions, and water quality. The SCADA system alerts staff to issues such as water main breaks, equipment failures, and water quality monitoring in real-time, increasing overall operational efficiency of the water utility.

The first phase of this project involved the completion of the SCADA Master Plan, which laid out a roadmap for improving the SCADA system through increased uniformity, improved reliability, monitoring, and cyber security. The Master Plan identified and prioritized a number of key implementation projects. The first is currently underway and involves hardware/software and network upgrades for the Johnny G. Martinez Water Treatment Plant (JGMWTP) which will bring that facility in line with SCADA upgrades recently completed at the South Tempe Water Treatment Plant (STWTP). This stage of work will include updating and standardizing hardware and software at the Water Utilities Division's field sites (wells, lift stations, metering stations, tanks, etc.). The water storage tanks located on Belle Butte, Hayden Butte, and Papago Butte were identified in the Master Plan as being most critical and therefore are to be the first of the field sites to be upgraded.

Work completed under this contract will include system design and programming of new network equipment and programmable logic controllers at the water tank sites on the buttes to be integrated into the updated SCADA network. New server hardware and software for managing field sites will be installed, and new programming standards will be established and documented for use in future upgrades to other field sites.

Arcadis U.S., Inc. was selected by a review committee as the most qualified firm for these services using a process pursuant to Arizona Revised Statutes § 34-603. The qualifications based selection process includes evaluation of each firm's statement of qualifications in response to our request for qualifications (RFQ); holding selection panel interviews with at least three qualified firms based on selection criteria with relative weights as follows:

- 5% General description of the professional skills, experience and ability of the proposed firm;
- 20% Relevant experience and qualifications of the proposed firm;
- 20% Relevant experience of key project personnel;
- 20% Understanding of this project and approach to performing required services;
- 30% In depth discussion through question and answer session of the proposed firm's expertise, qualifications of key personnel and their knowledge related to this project, and;
- 5% Overall evaluation of the proposed firm and its ability to provide the required services.

Staff worked with Arcadis U.S., Inc. in developing a detailed scope of work for this project. The proposal for the professional services submitted by Arcadis U.S., Inc. to complete the scope of work was reviewed by staff and deemed to be consistent with normal engineering practice on similar projects. The proposed labor rates were reviewed by staff and are consistent with industry standards.

ATTACHMENTS: Professional Services Contract and Exhibits.

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