AM NO. 14-015 (C7)

MEMO TO: City Council

FROM: John Marchione, Mayor

DATE: January 21, 2014

SUBJECT: **RESOLUTION: WAIVE COMPETITIVE BIDDING REQUIREMENTS AND AUTHORIZE CONTRACT APPROVAL FOR TECHNICAL SYSTEMS INC. TO UPDATE THE CITY'S TELEMETRY SYSTEM**

I. RECOMMENDED ACTION:

Approve the attached resolution waiving competitive bidding requirements and authorizing the Mayor or his designee to enter into a contract with Technical Systems Inc. (TSI) for $260,000 to update the City's Telemetry System.

II. DEPARTMENT CONTACT PERSONS:

Linda De Boldt, Director of Public Works	425-556-2733
Scott Thomasson, Water/Wastewater Engineering Manager	425-556-2829
Jeff Thompson, Project Manager	425-556-2884

III. BACKGROUND:

The City of Redmond Public Works Department maintains and operates a telemetry system for the water and wastewater systems throughout the City. We have developed software and hardware components that are specifically adapted to monitor and control the various components of each system. Technical Systems Inc. (TSI) provides all components and software to operate these systems. Public Works strives to have consistent systems throughout the City of Redmond by standardizing telemetry components and software programming, which expedites repairs and maintenance. Many equivalent components are not compatible with the TSI system. Thus, using non-standard components in this project would result in additional repair and maintenance costs for this City of Redmond in the future.

IV. DESCRIPTION:

On April 12, 2013, the City submitted a TSI purchase order for the Water and Wastewater Telemetry System Pre-Design for $56,880 ($40,000 + 16,880 contingency requiring City authorization). The Pre-Design is completed, and now we are moving to the Design phase of the project, followed by the Construction and Installation phase of the project.

This resolution will allow for the Water and Wastewater Telemetry System Design, Construction, and Installation to be completed this year. Please refer to the attached scope and price from TSI (Attachment B). The total design price will be $60,000 ($54,720 + 5,280 contingency requiring City authorization). The estimated construction and installation price is $200,000. Therefore, the total TSI purchase order amount will be $260,000.

RCW 39.04.280(2)(a) allows for a resolution to be adopted by the governing body to waive competitive bidding requirements. The proposed Resolution is included in Attachment A.

V. FISCAL IMPACT:

Adoption of the attached resolution will waive the competitive bidding requirements for the final design and construction and implementations of the City's Telemetry System, as well as give authorization to enter into a contract with TSI for a total of $260,000. Funds for this will be paid from the Water/Wastewater fund accounts (403, 404, 407, and 408).

A. Service Delivery: Updated Water & Wastewater Telemetry System

B. Fiscal:

Estimated Project Costs	
Engineering Predesign (TSI)	$ 56,880
Engineering Predesign Review (BHC)	24,910
Engineering Design Services	
Design, Construction, & Implementation (TSI)	260,000
Design Review (BHC)	100,000
City Administration	25,000
Miscellaneous	5,000
Total	$471,790
Project Funding	
Water/Wastewater CIP	$ 471,790

VI. ALTERNATIVES:

1. Adopt the resolution as proposed
2. Adopt the resolution with modifications from Council
3. Do not adopt the resolution; Staff would proceed with a request for proposal for Telemetry System Integrators

VII. TIME CONSTRAINTS:

There are Sewer Pump Stations currently being designed that will be delayed if the City's Telemetry System is not updated.

VIII. LIST OF ATTACHMENTS:

A. Resolution
B. TSI's Scope and Fees

/s/ 1/13/2014
Linda E. De Boldt, Director of Public Works Date

Approved for Council Agenda /s/ 1/14/2014
John Marchione, Mayor Date

CITY OF REDMOND
RESOLUTION NO. _____

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF REDMOND, WASHINGTON, WAIVING COMPETITIVE BIDDING REQUIREMENTS FOR DESIGN, PURCHASE, CONSTRUCTION, AND INSTALLATION OF THE CITY OF REDMOND SCADA TELEMETRY SYSTEM UPGRADES, AND AUTHORIZING THE MAYOR OR HIS DESIGNEE TO NEGOTIATE AND EXECUTE CONTRACTS FOR THE PERFORMANCE OF THE WORK

WHEREAS, the City of Redmond Public Works Department operates and maintains a telemetry system for water and wastewater facilities located throughout the City; and

WHEREAS, the City has developed hardware and software components that are specifically adapted to monitor and control the various components of the telemetry system; and

WHEREAS, the hardware and software components have been provided and installed by Technical Systems, Inc. (TSI) under previous contracts with the City; and

WHEREAS, upgrades to the system are needed in order to provide for future reliability. The City Public Works Department has determined that many components provided by competitors of TSI would be incompatible with the current system. This would result in a non-standardized system that would require the City to perform additional repairs and incur additional maintenance costs in the future; and

WHEREAS, having the system upgrades designed by, purchased from, constructed by and installed by TSI would result in a standardized telemetry system with standard components which would expedite repairs and maintenance and reduce costs; and

WHEREAS, the City Public Works Department has therefore recommended that the City Council determine the design, purchase, construction, and installation of the SCADA Telemetry System Upgrades to be clearly and legitimately limited to a single-source of supply, pursuant to RCW 39.04.280, and that the City Council waive competitive bidding and authorize the Mayor or his designee to negotiate and enter into contracts with TSI for performance of the work.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF REDMOND, WASHINGTON, HEREBY RESOLVES AS FOLLOWS:

Section 1. Waiver of Competitive Bidding. The Redmond City Council finds that the facts set forth in the recital paragraphs of this resolution are true and justify exempting the design, purchase, construction, and installation of the City's SCADA telemetry system upgrades from competitive bidding as compatible and standardized hardware and software components are available only from TSI. Pursuant to RCW 39.04.280, the City Council exempts the work from the competitive bidding process because the work is clearly and legitimately limited to a single-source of supply. Any bidding or selection requirements

set forth in state law or City ordinance are hereby waived due to the nature of the work to be performed and the hardware and software components to be provided.

Section 2. Authority to Contract. The City Council hereby authorizes the Mayor or his designee to negotiate and execute a contract or contracts with TSI for the completion of the SCADA telemetry system upgrades project, pursuant to the single-source justification provided in this resolution and the scope of work and pricing information set forth in the agenda memo presented to the City Council with this resolution.

ADOPTED by the Redmond City Council this 21 day of January, 2014.

CITY OF REDMOND

_____
MAYOR JOHN MARCHIONE

ATTEST:

_____
MICHELLE M. HART, MMC, CITY CLERK

APPROVED AS TO FORM:

_____
JAMES E. HANEY, CITY ATTORNEY

FILED WITH THE CITY CLERK:
PASSED BY THE CITY COUNCIL:
RESOLUTION NO.

Technical Systems Inc.
Corporate Office
2303 196th Street SW
Lynnwood, WA 98036
Tel 425.775.5696
TSIcontrols.com

Design Scope Rev 1

on

City of Redmond
SCADA System Upgrades

by

Technical Systems, Inc.
2303 - 196th St. SW
Lynnwood, WA 98036
(425) 775-5696

for

City of Redmond
Redmond, Washington

TSI Job 74xx

Project Manager: Andrew Palmberg, P.E.

Date: November 4, 2013

1. INTRODUCTION AND GENERAL DESCRIPTION

TSI met with the City of Redmond in a series of three pre-design meetings to identify possible SCADA improvements. The meetings and discussions have produced a preliminary design for the SCADA upgrades.

The City is now ready to proceed with the design phase which will finalize the components which will be used to upgrade the SCADA system. The following items will be provided as part of the design for the Head End and Pump Station 17.

2. DELIVERABLES

1. **Define the Upgraded System:** Use workshops to finalize with City staff which features will be used for the SCADA upgrade. Three (3) Workshops will be held for the following areas:

   A. Network architecture, type of radios with frequency and manufacture, radio implementation configuration, peripherals and computer hardware and improvements to existing standards.

   B. Determine automatic modes of calling, e-mails or texts and define SCADA licenses. Discuss any desired improvements to the existing SCADA screens and review standards for Panelview plus screens. Review reports and desired report format. Determine locations for all new equipment at MOC, Novelty Ops Center, Novelty WPS and LS17.

   C. Detail shop testing configuration, on site implementation, review schedule for sequence of construction, installation and testing for the upgrade project, define the training that the City wants, review loop descriptions and discuss emergency response needs.

2. **Document the Design Process:** Document the discussions and decisions for each area following the workshops. Detail the new head end SCADA equipment and lift station 17 RTU panel by providing the following 60% and 100% submittals:

   A. Network diagram for the new SCADA system with the intertie to the existing system.

   B. Power system drawings for utility (and standby) with UPS shown.

   C. Layout of all equipment in plan and elevation.

   D. Basic improvements design at pump station 17.

   E. Bill of Materials with major components and licenses.

   TSI will be providing 30% submittals for the panel layout drawings for the head end SCADA panel and lift station 17 telemetry panel and network diagrams for review in the workshops.

3. **Develop Final Pricing with Detailed Scope:** Develop a final cost for the work to be implemented after the design process is complete. This will involve purchasing of equipment, programming, testing, installation, startup and training.

4. **Develop a Timeline:** Establish a general timeline for migrating the City to the new SCADA system.

END OF DESIGN SCOPE

Design Phase Cost Estimate

Project Name: Telemetry System Upgrade
Project Number:
Consultant: TSI

NEGOTIATED HOURLY RATES

Classification	Hours	Rate	Cost
Project Manager	96	$135	$12,960
Project Engineer	320	$120	38,400
Support Staff	48	$70	3,360
Subtotal:	464		$54,720

CONTINGENCY	5,280
TOTAL	$60,000

CONSTRUCTION & IMPLEMENTATION COSTS

Lift Station #17	$80,000
Head End Work	$120,000
GRAND TOTAL	**$260,000**