NOTICE OF BID

The City of Pigeon Forge, Tennessee Department of Public Works is receiving sealed bids on wireless telemetry system.

Specifications may be obtained from the Public Works Department in City Hall between the hours of 8:00 am and 4:30 pm, Monday through Friday.

All bids must be in sealed envelope with bidders name and address on outside and marked “Bid on Wireless Telemetry System.”

Bids will be received until 2:00 pm, October 29, 2014, at which time they will be opened and read aloud.

The City reserves the right to reject any or all bids or to accept the bid most favorable to the City.

This 11th day of September, 2014.

Department of Public Works
Pigeon Forge, Tennessee
Applications for selection of a Process Control Integrator will be received to the attention of Mark Miller, Public Works Director, from interested contractors for the work associated with Pigeon Forge Water and Wastewater Treatment Plant Improvements, until 2:00 p.m. EDT on October 29, 2014. The Application shall be clearly identified on the exterior of the shipping package.

Applications may be obtained from the Public Works Department at Pigeon Forge City Hall, 225 Pine Mountain Road, Pigeon Forge, TN 37863.

The intent of this solicitation is to qualify and select a single Process Control Contractor for the supply, integration, installation and commissioning associated with the subject project. The decision made by the City to select the Contractor based on qualifications is final. The City reserves the right to reject any or all Applications, in whole or in part, as may be in its best interest and to waive minor irregularities and informalities in any Applications submitted. The City will not accept Applications from any Contractor who fails to submit timely applications.

Three bound copies and one digital, bookmarked, searchable PDF electronic copy of the Proposal shall be mailed or delivered to Pigeon Forge Public Works, PO Box 1350, 225 Pine Mountain Road, Pigeon Forge, Tennessee 37868, prior to 2:00 PM, October 29, 2014.

Any questions should be directed to bidscada@cityofpigeonforge.com or Lynn Light, at (865) 453-1275. Questions will be due by October 6, 2014, with responses back for questions by October 15, 2014.

A mandatory pre-proposal meeting has been scheduled for September 29, 2014, at 10:00 am at the City Hall Annex Meeting Room B, at 225 Pine Mtn. Road, Pigeon Forge, TN 37863.

After bid is awarded, and contractor has been given notice to proceed, the contractor will have 180 days to complete the project; from the date notice to proceed is given.

1.01 PROJECT DESCRIPTION

A. Work included: Provide a complete computerized instrumentation and control system with appurtenant equipment and accessories as indicated, specified, and as necessary for a complete and proper operating system.

1. Work includes, but is not necessarily limited to, the following:
   a. Final Design of Telemetry System.
   b. Onsite Testing and System Design verification
   c. Integration of existing HMI SCADA system to incorporate remote sites.
   d. Design and fabrication of Remote Telemetry Units, RTUs.
   e. Installation of Remote Telemetry Units
   f. Commissioning of Telemetry System
   g. Testing and operational demonstrations as specified.
   h. Training programs as specified.
   i. Preparation of instruction manuals.
B. Related work:

1. Documents affecting work of this Section include, but are not necessarily limited to, General Specifications, Special Provisions, and all other related Sections.

1.02 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by basic designation only.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)

ANSI/ASME B16.1 Cast Iron Pipe Flanges and Flanged Fittings, Class 25, 125, 250, and 800

NATIONAL FIRE PROTECTION AGENCY (NFPA)

ANSI/NFPA 70 National Electric Code

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)

NEMA ICS 1 General Standards for Industrial Control and Systems

NEMA ICS 2 Standards for Industrial Control Devices, Controllers, and Assemblies

NEMA ICS 4 Terminal Blocks for Industrial Use

NEMA ICS 6 Enclosures for Industrial Controls and Systems

1.03 DEFINITIONS

A. SCADA System – Supervisory Control and Data Acquisition System
B. PC – Personal Computer System
C. PLC - Programmable Logic Controllers
D. I/O – Input/Output
E. HMI – Human-Machine Interface
F. DataComm – Equipment and labor needed for tcp/ip communication between remote sites and plant.

1.04 REQUEST FOR PROPOSALS

The City of Pigeon Forge, is soliciting “Request for Proposals” from interested Instrumentation and Control System Integrators to supply a SCADA System for the project.

A. Integration and coordination of the instrumentation and control system and associated Hardware and Software.

B. Procurement of instrumentation, controls, control panels, programmable logic controllers (PLCs), and other equipment which will comprise the overall instrumentation and control
system and associated computerized supervisory control and data acquisition (SCADA) system for the plant.

C. Installation, startup and commissioning of the procured instrumentation, controls, control panels, programmable logic controllers (PLCs), and other equipment.

D. Long term service and maintenance responsibility for the instrumentation and control equipment supplied for the plant.

1.05 FORMAT FOR RFP, REQUEST FOR PROPOSAL

A specific format is required for the RFP. It is important that the page limitations are followed, all questions are answered directly, and the structure is adhered to. Documentation provided must be specific and the data given must be clear and comprehensive, Documentation provided must pertain specifically to the entity that will bid for and construct the project, not an affiliated company, parent firm or Entity. Failure to follow instructions may result in disqualification. Failure to follow instructions may result in disqualification.

Provide the requested information in four sections as listed below and detailed in Section 1.06.

Section 1: Minimum Requirements

Section 2: Financial and Technical Resources.

Section 3: Experience and References.

Section 4: Proposed Approach to the Work.

It is requested that this proposal not exceed one hundred (100) pages.

1.06 EVALUATION PROCESS

A selection committee consisting of members of the City of Pigeon Forge’s staff will independently evaluate each proposal response to the RFQ. References will be contacted. Certain minimum requirements must be met for the proposal to be further evaluated. Failure to demonstrate, to the satisfaction of the City’s staff, any of the following will result in the supplier being eliminated from possible selection:

A. Bonding capacity in July of 2013 of at least $2,000,000 for a single project.

B. Minimum of five years recent, Past experience (water/wastewater) in the design, construction, installation and successful startup of PLC-based PCS and SCADA systems of comparable size, type, and complexity to the proposed projects. At least two, 2, of the installations shall be Municipal SCADA Systems using Allen Bradley MicrolLogix PLCs.

C. The firm submitting shall provide documentation to show that they are licensed as a Contractor in the state of Tennessee.
D. The firm submitting shall provide documentation to show that they are licensed and authorized to perform engineering in the state of Tennessee.

E. The firm submitting shall be a “Certified” member of the Control System Integrators Association (CSIA) of North America, and provide a copy of their membership.

F. The System Integrator shall also exhibit experience in integrating and installing Wireless Telemetry Systems.

G. The System Integrator shall have on staff a minimum of five, 5, Service Technicians that are recognized as Certified Control Systems Technicians, Level 1, by ISA.

H. The System Integrator must have an on-site Panel Shop capable of assembling UL508 and UL698A panels. Evidence of producing UL508 and UL698A control panels shall be submitted with the proposal.

I. The System Integrator must have experience in producing and modifying 3-D graphic displays.

J. The System Integrator shall be a certified NPI with Fiber Optic Network of Preferred Installers (NPI) program.

K. The System Integrator shall be a member of the Rockwell Automation Systems Integrator Program and have economical access to the Rockwell Automation products, services, and the tools needed to develop integrated solutions for our customers.

L. The System Integrator must have had at least two, 2, employees that have completed Rockwell Automation’ PoweFlex 400/70/700 AC Drive Field Start Up for Water Wastewater Applications.

M. The System Integrator must maintain insurance throughout the course of the design and construction administration meeting the following minimum levels:

a. Commercial General Liability Insurance, including coverage for premises and operations, products and completed operations, independent contractors, and contractual liability. Such insurance shall be not less than $1,000,000 per occurrence and $2,000,000 in the aggregate.

b. Automobile Liability Insurance for all owned, hired and non-owned automobiles in the minimum amount of $1,000,000 per occurrence.

c. Professional Liability Insurance of $2,000,000 per claim.

d. The City of Pigeon Forge must be named as additional insured on the General and Automobile liability insurance policies.

N. The System Integrator shall be certified as a Drug Free Work Place.

1.07 APPLICATION REQUIREMENTS

The applicant must complete and submit three (3) hard copies and one electronic copy on CD (PDF format) of the application and all associated forms and attachments, which together
comprise the application. The application shall be signed where indicated and submitted to the City.

Responses to the RFQ must be typed or neatly printed. The information presented should be clear, complete, concise and not misleading. All attachments submitted shall be identified with the name of the applicant. Failure to submit a response on the official forms provided for that purpose may be considered just cause for rejection of the response. Modification of any portion of the solicitation may be cause for rejection of the response. The City reserves the right to decide, on a case-by-case basis, at its sole discretion, whether to reject such an application as non-responsive.

1.08 METHOD OF SELECTION

All proposals received as specified will be evaluated by the City of Pigeon Forge’s Committee in accordance with criteria set forth below. The evaluation process will have five steps.

1. Proposals will be reviewed to ensure compliance; non-compliant proposals will be rejected.
2. Proposals will be evaluated according to the evaluation criteria
3. Shortlisted proposers may be selected for interview. Any necessary clarification will be sought at this time.
4. Following the interview, if needed, a recommendation will be made for award.

Evaluation Criteria

1. Solution Proposed (40%)
2. Vendors and Vendor’s Team Experience and qualifications (15%)
3. Completeness of response (10%)
4. Pricing (30%)
5. Time to implement the system (5%)

1.09 REQUESTED INFORMATION

System integrators desiring to qualify for the work must provide all information described in this section including complete and explicit answers to the questions. Do not provide tables and generic product information and expect the reader to count and/or interpret responses. Vague and unresponsive answers and missing information will be considered negative responses.

Section 1 - Minimum Requirements

Provide the following information:

A. Letter from Bonding Surety showing the Contractor has current bonding capacity of at least $2,000,000 for a single project.

B. Provide examples of project within the last five years, detailing past experience in municipal water or wastewater projects in the design, construction, installation and successful startup of PLC-based Telemetry systems of comparable size, type, and complexity to the proposed projects. At least four, 4, of the installations shall be Municipal SCADA Systems using Allen Bradley Controllogix PLCS.
C. The firm submitting shall provide documentation to show that they are licensed as a Contractor in the state of Tennessee.

D. The firm submitting shall provide documentation to show that the corporation is licensed and authorized to perform engineering in the State of Tennessee.

E. The firm submitting shall be a “Certified” member of the Control System Integrators Association (CSIA) of North America, and provide a copy of their membership.

F. The System Integrator shall also exhibit experience in integrating SCADA systems on Water Filtration Plants. Provide at least five, 5, reference examples of Telemetry projects of similar size and magnitude.

G. The System Integrator shall have on staff a minimum of five, 5, Service Technicians that are recognized as Certified Control Systems Technicians, Level 1, by ISA. Provide copies of their certifications with the proposal.

H. The System Integrator must have an on-site Panel Shop capable of assembling UL508 and UL698A panels. Evidence of producing UL508 and UL698A control panels shall be submitted with the proposal.

I. The System Integrator must have experience in producing and modifying 3-D graphic displays. Provide examples of at least ten, 10, reference applications where 3D graphics were created in house. Provide a list of 3D Graphic Artists currently employed by your firm. Provide information on the 3D package used by your corporation for developing the Graphics.

J. The System Integrator shall be a certified fiber optic integrator. Provide documentation of your Fiber Optic Certifications. FOA certification preferred.

K. The System Integrator shall be a member of the Rockwell Automation Systems Integrator Program and have economical access to the Rockwell Automation products, services, and the tools needed to develop integrated solutions for our customers. A letter from Rockwell detailing your participation should be included.

L. The System Integrator shall have had at least two, 2, employees that have completed Rockwell Automation’ PoweFlex 400/70/700 AC Drive Field Start Up for Water Wastewater Applications. The System Integrator shall provide documentation that the employee and the corporation are a registered Start Up Provider for PF400/70/700 products in the Water/Wastewater Industry.

M. The System Integrator must maintain insurance throughout the course of the design and construction administration meeting the following minimum levels:

   e. Commercial General Liability Insurance, including coverage for premises and operations, products and completed operations, independent contractors, and contractual liability. Such insurance shall be not less than $1,000,000 per occurrence and $2,000,000 in the aggregate.

   f. Automobile Liability Insurance for all owned, hired and non-owned automobiles in the minimum amount of $1,000,000 per occurrence.
g. Professional Liability Insurance of $2,000,000 per claim.
h. The City of Pigeon Forge must be named as additional insured on the General and Automobile liability insurance policies.

Provide documentation of your current insurance levels.

N. The System Integrator shall be certified as a Drug Free Work Place.

Section 2 - Financial and Technical Resources

A. Provide the following information in tabbed sections as follows:

1. Personnel Resources.
   a. Provide a company organizational chart and the total number of employees. Provide a project organizational chart accompanied with a written description that includes specific people and specific responsibilities of each stakeholder including subcontractors and Owner. Provide evidence that your staff includes more than one person with directly applicable experience in the design supply and installation of Wireless Telemetry System.

2. Facility Resources.
   a. Describe facilities and resources with respect to your ability to assemble system control panels and stage a factory acceptance test with multiple PLCs, and operator workstations. In the descriptions, include the location and number of years you have occupied the facility.

3. Support, Service and Maintenance Capabilities.
   a. Describe the services available from your firm and location of personnel for startup, training, support and maintenance. Describe both software and hardware maintenance support you can offer. Identify projects where similar types of services have been provided. Include the project name, contact person, and phone number in the Owner’s organization. Indicate how your firm could provide long-term maintenance and support services including realistic response times and location where support will originate.

Section 3 - Experience and References

1. The supplier must have a demonstrable track record in providing systems of this level of complexity. Provide the following information in separately tabbed subsections:

   References and Project Experience. Provide the following:
a. A list of all similar PLC-based Telemetry System projects completed in the last five years. Include the following:

1. Project name and location.
2. Major control software and hardware used.
3. Contract amount. Indicate percentage, in dollars, of each job for field instrumentation and percentage of computer/PLC hardware and software.
4. Completion date.
5. Name and current phone number of end user reference.
6. Indicate type and size of radio subsystem used by your firm on these projects or combination of your firm and proposed subcontractor.

b. For any four (4) projects which most closely match the needs of these projects, provide a brief system description and a system block diagram. Indicate issues such as redundancy and how it was implemented. In the description, identify the major hardware and software components used.

c. Have any penalties, liquidated damages, liens, claims, or stop notices been filed on any project in progress or completed during the last five years? If so, identify the project, contract date, type of claim/lien, etc. and comment on the reasons.

d. Identify the largest SCADA and instrumentation project (in dollar amount) bonded by your company, and state the bonded value. Identify other projects that were completed for larger values but were not bonded.

e. Submit samples of shop drawings provided for one of the referenced projects. Include one loop drawing, one network configuration drawing, and one set of panel drawings (schematic, layout, inter-wiring, and bill of material) as a minimum.

f. Submit samples of 3-D graphics configured for representative projects. Provide color copies of sample 3-D graphics and identify the software package used to configure them. Include as a minimum one Overview graphic, one WTP Overview, one Raw Water Intake, one Filter, one Chemical Feed, one High Service Pump Station, one Disinfection Screen, one Alarm summary graphic, and one Trend graphic. Submit no more than ten (10) graphics total.

D. Section 4 - Project Approach
1. The system integrator must be positioned to offer a SCADA system that meets or exceeds the requirements of the Owner. Provide the following information describing your project understanding and approach.

**Project Understanding and Approach.**

a. Describe how you will perform the work on this project. Include a description of how your firm will organize, mobilize, implement this project, and quality control procedures and tools. This is your management approach that will show your understanding of the key issues and steps required for implementation. Indicate issues and potential solutions that will need to be addressed to ensure project success.

b. Schedule and Cost Control Methods. Describe your methods and tools used to monitor and control project schedules and costs.

c. A text description of the Telemetry System design philosophy and functionality. It is the intent of this specification that the SCADA system shall be a truly “open architecture” design using off-the-shelf components and non-proprietary communications protocols.

d. Provide results of computerized radio path propagation analysis software detailing the optimal frequency range and best radio system architecture for the new system. Describe if licensed frequencies will be require, and include the costs associated in obtaining frequency coordination and FCC licensing.

e. Provide Block diagrams, wiring diagrams, and panel layouts, for the proposed Remote Telemetry Units at the various sites.

f. Provide UPS sizing calculations and anticipated backup time at each site.

g. Discuss the proposed communication protocol and detail the anticipated polling times in the proposed system.

h. Discuss the proposed security measures employed by your proposed system.

i. Provide System Validation and Acceptance Testing Plan.

j. A detailed discussion of the Owner’s involvement in system development and training.

k. An outline of the proposed Operations and Maintenance Manuals. Include an example of the Table of Contents for a system which has been previously installed and accepted and which is similar to this system.

l. A discussion of services to be provided by the Instrumentation and Control System Integrator during the one year warranty period. Provide
the addresses and telephone numbers for the field service offices responsible for providing service support for this project. Discuss the number of personnel available in the nearest service office and their qualifications. Include resumes for these individuals. Also discuss other service offices that could provide support services for the system.

m. Provide complete manufacturers’ catalog literature for all of the various items of equipment specified and/or required.

n. It shall be the Instrumentation and Control System Integrator's responsibility to provide sufficient data and information to allow the Owner/Engineer to promptly determine whether or not the equipment complies with the specifications. The failure to submit any of the above information will be sufficient grounds for disapproval.

o. Detailed Scope of Supply and System Pricing

The proposal shall include detailed pricing for the proposed system. Tax exemption certificate is available upon request.

1.10 TECHNICAL SERVICES:

A. The Instrumentation and Control System Integrator shall provide the following services during the course of this project:

1. Provide all project management and system design services required to insure a successful and fully functional SCADA system which meets the intended system functionality as described herein.

2. Prepare and submit detailed shop drawings as submittals for approval.

3. Develop and fully annotate all PLC programming.

4. Develop and fully document all applications software.

6. Provide the onsite services of a factory trained field service engineer to startup, calibrate, and place into service all Computer Hardware, instrumentation, Communication equipment, PLC-based Control Panels, and other ancillary devices and equipment as required to achieve a fully operational and functional system.

7. Provide the onsite services of a factory trained software engineer to startup the system and to work with the factory trained field service engineer to rigorously test the entire system. Results of all testing shall be documented in writing on a site by site basis.

8. Provide the onsite services of a factory trained field service engineer to perform training of personnel in the area of troubleshooting the specific equipment supplied.
9. Provide the onsite services of a factory trained software engineer to perform
training of personnel in the area of the human-machine-interface (HMI)
applications software as applied specifically to this system.

10. Provide the onsite services of a factory trained field service engineer and factory
trained software engineer to make repairs to the system during the one year
warranty period.

1.11 ONSITE SERVICES:

A. Provide supervisory service of a factory trained service engineer, specifically trained on
the type of equipment herein specified, for a period of not less than Three (3) 8-hour days
during construction for coordination meetings with the owner.

B. Upon completion of equipment installation, provide services of the above service
engineer for a period of not less than twenty, 20, 8-hour days for start-up of the
equipment and instructing the operating personnel.

C. The minimum days specified above do not relieve the Instrumentation and Control
System Integrator of providing sufficient service to place the system in satisfactory
operation.

1.12 SUBMITTALS

A. Comply with other pertinent provisions of this specification.

B. Product data: Within 60 calendar days after the Contractor has received the Owner's
Notice to Proceed, submit:

1. Component manufacturing data sheet indicating pertinent data and identifying
each component by item number and nomenclature as indicated on the drawings
and in the specifications.

2. Component drawing showing dimensions, mounting and external connection
details.

3. System wiring schematics, each on a single drawing with full description of
operation. Component identification on the schematic shall be as indicated above.

4. A system schematic of the hardware with the component manufacturing data
sheets for each item, including all system peripherals.

5. A printed copy of each control and monitoring screen and each regulator report
form. A complete description of each screen shall accompany the print.

C. Provide Operation and Maintenance manuals.

1. Operating instructions shall incorporate a functional description of the entire
system, including the system schematics which reflect “as-built” modifications.

2. Special maintenance requirements particular to the system shall be clearly
defined along with special calibration and test procedures.

3. As part of the operation and maintenance manuals, provide three hard copies of
the program used to program the programmable logic controller.
D. Purchase any and all software packages required for the system in the name of the City of Pigeon Forge, TN. All warranties associated with the hardware and software shall be in the name of the City of Pigeon Forge, Tennessee.

E. Provide to Engineer for approval any changes, additions, corrections, etc. required to the Bid Documents that are needed to accommodate the system being proposed. The changes, additions, corrections, etc. shall be at the Contractor's expense and shall be included in his Bid.

1.13 COORDINATION OF WORK

A. Coordinate work of this Section with work of other sections.

B. The Instrumentation and Control System Integrator shall be responsible for reviewing the contract documents that could affect this portion of the work.

C. Plans and specifications, especially instrumentation/electrical and wiring requirements, have been formulated in an attempt to satisfy the conditions for any system proposed. However, a vendor may find that some changes or additional conduit and wiring from that indicated may be required to accommodate particular equipment being proposed. Should this be the case, the vendor shall include in his bid price, all changes or additional requirements necessary for the system. After award of contract, revised drawings must be submitted for approval indicating any changes prior to any changes being implemented.

1.14 PRODUCT DELIVERY, HANDLING AND STORAGE

A. Schedule the delivery of the equipment to coordinate with the project completion schedule.

   1. Each item of equipment to be tagged with identifying number shown on the Shop Drawings.

B. Contractor's attention is directed to the fact that equipment has delicate components and extreme care shall be taken in handling to avoid internal and/or external damages.

C. Damaged equipment will not be accepted.

D. Equipment not for immediate use shall be stored inside a building, with enclosures under protective coverings and shall be fully protected from moisture, extreme heat and vibration.

1.15 SYSTEM DESCRIPTION

A. The City of Pigeon Forge is in need of a reliable SCADA System to monitor their remote assets via a Wireless Telemetry System. Interface to the remotes sites shall be possible from the Wastewater Treatment Plant, Water Plant and Administrative Offices.
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</table>
B. Existing SCADA System

The existing system HMI platform is at the water and wastewater plants is Rockwell Software Factory Talk. Proposers should plan on upgrading the existing SCADA Systems’ HMIs at both plants to include the remote sites. New client licenses should be supplied to run on two, 2, owner supplied computers at the administration building. All sites in the system shall be graphically represented in 3D on the HMI to include; analog and digital status, set points, and historical trending, provide sample screens in the RFP. The HMI Server shall also include a reporting program with up to 6 owner specified reports for equipment run time, flows, system wide residuals, and pressures/levels.

C. System Standards and Assumptions:

1. All Hardware and Software shall be open architecture, non-proprietary.
2. RTUs shall be based on the Allen Bradley Micrologix 1400 Platform
3. RTUs shall have DC UPSs.
4. All discrete inputs and outputs shall include relay isolation
5. All Analogs shall include surge protection
6. RTUs mounted indoors shall be Nema 12 Carbon Steel
7. RTUs mounted outdoors shall be Nema 4X 304 Stainless Steel with painted aluminum sun shields
8. A Grounding plans shall be submitted with the RTUs
9. Instruments Racks for Mounting RTUs shall be supplied where necessary
10. The proposal shall include the supply and installation of any required Antenna Towers, Poles and mounts required to existing structures.

D. Wireless Radio Telemetry System Preferences

The City of Pigeon Forge is requesting a private open architecture radio telemetry system. The preferred topology would be to provide a broadband fault tolerant ring backbone system with hubs that communicate to the remote sites nearby. The system may be comprised of either licensed or non-licensed Radios. Any cost associated with licensing the radios shall be included with the proposal. Datacomm project elements shall be broken out separately as an optional component.
E. Programming Configuration Services

The System Integration Contractor shall program the telemetry system for the required functionality. Smart polling methodologies shall be used to optimize polling times.

F. HMI Configuration Services.

The Existing SCADA HMI Screens shall be replaced and upgraded to new user friendly 3D HMI Screens. The existing SCADA HMI configurations shall not be imported into the existing Factory Talk SE Software, but a new application shall be developed to provide an elegant configuration that is easy and secure to operate. The following areas shall be addressed and integrated into the new application:
• Tag name conventions
• Alarming conventions to reduce alarm fatigue.
• New Menuing System
• New Historical Display Interface
• New Alarm and Event Monitoring Screens
• New High Resolution 3D Animated Real Time Graphics
• New Utility Screens
• New Network Diagnostics Screens
• New Operator Security Screens and Configuration.
• New custom reports for the remote sites, including daily and monthly summary information for each of the remote sites.

1.16 WARRANTY

A. Systems supplier shall furnish a hardware and software maintenance contract for the computer system, providing for a 24-hour response time in normal working hours, five days per week for the length of the One, (1), year warranty period, from written acceptance.

1. For any service visit during this period, provide the Owner and Engineer with a written report stating the reason for equipment failure and recommendations to prevent recurrence.

B. At the end of this period, the maintenance contract shall be made available for transfer to the Owner.
Pigeon Forge, Tennessee
Water SCADA
Bid Form

Bidders Name: ____________________________________________________________

Contact: ___________________________ Email: ______________________________

Address: __________________________________________________________________

City: _____________________________ State: _________ Phone: _______________

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
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<tr>
<td>Labor (Total)</td>
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<td>Time to Complete (days)</td>
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<td>System Engineering &amp; Integration</td>
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<td>Equipment</td>
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<td>System Support (Annual Cost)</td>
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<td>Training (2 Days)</td>
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<td>DataComm (optional)</td>
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TOTAL _______________________

The City reserves the right to choose all or partial bid.

F.O.B. 2432 Library Drive, Pigeon Forge, Tennessee