

YORKTOWN, INDIANA

WATER SYSTEM CONTROL IMPROVEMENTS

PROPOSAL

To the Town of Yorktown, Indiana:

The undersigned has investigated the conditions affecting the cost of the proposed

WATER SYSTEM CONTROL IMPROVEMENTS

and hereby tenders this quote to furnish said work and materials in accordance with the Contract Documents and to completely furnish and install all material in the manner and at the time prescribed as required by the Contract Documents as follows:

TOTAL QUOTE AMOUNT

Seventy two thousand, four hundred seventy Dollars (Words)
\$72,470.⁰⁰ Dollars (Figures)

The undersigned further agrees to complete the furnishing and installation of the materials within 60 calendar days from and including the date of commencement to be stipulated in a written order of the Owner.

The undersigned has fully executed the Quote Package contained in the contract Documents as defined in the Information for Quoters.

Quoters shall attach a detailed Scope of Work to this proposal in order to achieve a new centralized control system to monitor and operate its drinking water assets as outlined in the Quotation Solicitation. Scope of Work shall include, but may not be limited to, the technology, equipment, hardware, software, etc. to achieve a completely integrated control system for its four drinking water wells and two water towers.

The undersigned agrees that this Proposal shall remain in full force and effect, and may not be withdrawn for a period of 60 days from the date of receiving proposals by the Town of Yorktown, Indiana.

Respectfully submitted,

Peerless Midwest Inc.

Contractor

(Individual) (Partnership) or
(Corporation)

By:

Nick Ricci

Address:

17707 SUN PARK Dr.

Westfield, IN 46074

Dated:

2/12/2018

The above Quoter acknowledges receipt of Addenda Nos. Ø

Note: The legal status of the Quoter, whether as an individual, partnership or corporation must be indicated as above, and all pertinent information as required by the Specifications must be furnished.



February 12, 2018

Butler Fairman & Seufert / Yorktown Water Department
Field Operations Building
2400 S Russ Street
P.O. Box 518
Yorktown, IN 47396

Emailed to: mspidel@bfsengr.com

RE: WATER CONTROL SYSTEM UPGRADE

Dear Matt:

Thank you for allowing Peerless-Midwest, Inc. (PMI) the opportunity to quote this water control system upgrade for Yorktown. PMI offers two options for this work:

Option 1: New Control System

System Description:

We will provide and install a replacement control system for the obsolete Consolidated Electric D620 system with leased-line communications. This new system is based on current technology Allen Bradley MicroLogix processors which are utilized heavily in a variety of industries. This makes them quite suitable for this application as they are readily available through local sources and can be serviced by many integrators instead of being captive to a single vendor for service or repair.

Design overview:

The new control panels will be built and installed in the Well 1 and 2 control buildings, in the Well 3 250K Tower control building and the 400K Tower. The existing control panel will be utilized for the Well 4 location. Communications will be upgraded to use a cellular plan on a private network for security; this eliminates the current requirement for the leased lines between the towers and Wells 1 & 2.

An operator interface screen will be installed at the DPW office to allow monitoring of the system from the office and will provide alarm functions also. Alarms will be annunciated via text messaging to your choice of cell phones. An application on operators' cell phones will allow them secure access to the screens and can be set up for monitoring only or for complete control of the system from their phones. System will be installed, wired, programmed, and tested.

Hardware included:

WELLS 1 & 2

NEMA 12 Enclosure
Programmable Logic Controller
DC Power Supply
Uninterruptible Power Supply / Surge Suppressor

Analog Input Module

Cell Modem

Ethernet Switch

Miscellaneous wire, relays, terminals, etc.

Well 3 (250K Tower)

NEMA 12 Enclosure

Programmable Logic Controller

DC Power Supply

Uninterruptible Power Supply / Surge Suppressor

Analog Input Module

Cell Modem

Wireless Modem

Ethernet Switch

Miscellaneous wire, relays, terminals, etc.

Well 3 (400K Tower)

NEMA 12 Enclosure

Programmable Logic Controller

DC Power Supply

Uninterruptible Power Supply / Surge Suppressor

Analog Input Module

Cell Modem

Ethernet Switch

Miscellaneous wire, relays, terminals, etc.

WELL 4

Cell Modem

Department of Public Works Office

NEMA 12 Enclosure DC Power Supply

Uninterruptible Power Supply / Surge Suppressor

10" Operator Interface Screen

Wireless Modem

Ethernet Switch

Miscellaneous wire, relays, terminals, etc.

The total cost for this **Option 1** as described would be **\$72,470.**

Option 2: Radio Link from Well 4 to Well 3

There is a high likelihood of establishing a 900 mHz radio link between the Well 3 and 4 sites. If we are successful, we can set up Well 4 to start when Well 3 is called. We would install a selector switch at Well 3, and an operator would select which well they wish to run when the existing controls call for Well 3 to run. If the switch is in position to call Well 4, the signal will be transferred to Well 4 via a radio link. It would then run until the control system called for the well to shut off.

This system is not ideal as it does not provide a way to operate all 4 wells in the system should a high demand event occur. However, it would allow Well 4 to be operated in a more controlled method than at present.

A radio survey would be required to confirm operation of the radios. If the survey is successful, we may proceed with the project immediately. In the event we are not able to establish a radio link with the 2 wells, the charge for the survey time would be billed on a time and material basis, not to exceed \$2500.

The total cost for this **Option 2** as described would be **\$15,210**.

PMI's QUALIFICATIONS



PMI has over 80 professional and technical staff providing consulting/contracting services to a growing list of municipal, industrial, manufacturing, health care, school, and government clients.

PMI personnel are committed to quality work, meeting deadlines, and working within budget. To support our diverse staff, we maintain state-of-the-art facilities and equipment, including PC based systems using GIS and CAD software packages, and Global Positioning Systems (GPS) surveying equipment. The unique technical qualifications offered by PMI allow us to help our clients complete their projects in a timely, professional manner. These qualifications and our regulatory experience ensure that permitting requirements pass smoothly through the required agencies.

PMI looks forward to helping you meet the water supply needs and maintain the groundwater supply system for Yorktown. If you have any questions about any of this information, or if you would like to discuss this proposal further, please contact me directly at (765) 438-4208.

Sincerely,

PEERLESS-MIDWEST, INC.

A handwritten signature in black ink, appearing to read "Nick Rice".

Nick Rice
Project Manager