# COUNTY AGENDA REQUEST

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| Department: | Water System | Presenter(s): | Tony Parrott |
| Meeting Date: | Tuesday, July 9, 2013 | Type of Request: | Consent |

Wording for the Agenda:

Consideration of the Water Committee's recommendation to award a bid for Supervisory Control and Data Collection (SCADA) Upgrades to J.K. Duren Company, Inc., in the amount of $299,500.00, and authorization for the Chairman to sign the contract and related documents.

Background/History/Details:

The Water System uses a radio telemetry system for communication and monitoring between the water plants, pump stations, water tanks and valves within the distribution system. The current system, referred to as a SCADA system, is an analog system and needs updating to a digital system, which is a requirement by the FCC. The original system was installed in the 90's and has been updated a couple of times when additions were added to the Water System. J.K. Duren installed the original system as a sub-contractor when the Crosstown Water Plant was built.

In Fiscal Year 2013, the Purchasing Department, along with Mallett Consulting, sent three companies that approached Mallett Consulting for bid packages but only one responded to the bid. The other two companies did not feel that the contract time was long enough. The bid response has been thoroughly reviewed by David Jaeger, Ted Burgess and Steve Rapson. Mr. Jaeger also had the bid reviewed by a third-party, Atlanta Consulting Engineers, who concluded that the bid prices appeared to be reasonable.

What action are you seeking from the Board of Commissioners?

Approval of the Water Committee's recommendation to award a bid for Supervisory Control and Data Collection (SCADA) Upgrades to J. K. Duren Company, Inc., in the amount of $299,500.00, and authorization for the Chairman to sign the contract and related documents.

If this item requires funding, please describe:

Funds are available in the Renewal & Extension fund. (50541100-610915)

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| Has this request been considered within the past two years? | No | If so, when? | |
| Is Audio-Visual Equipment Required for this Request?* | | Backup Provided with Request? | Yes |

**** All audio-visual material must be submitted to the County Clerk's Office no later than 48 hours prior to the meeting. It is also your department's responsibility to ensure all third-party audio-visual material is submitted at least 48 hours in advance.***

| | | | |
|---|---|---|---|
| Approved by Finance | Yes | Reviewed by Legal | |
| Approved by Purchasing | Yes | County Clerk's Approval | Yes |
| Administrator's Approval | | | |

Staff Notes:

Fayette COUNTY

"WHERE QUALITY IS A LIFESTYLE"

PURCHASING DEPARTMENT
140 STONEWALL AVENUE WEST, STE 101
FAYETTEVILLE, GEORGIA 30214
PHONE: 770-305-5420
www.fayettecountyga.gov

To: David Jaeger
Tony Parrott

From: Ted L. Burgess

Date: June 25, 2013

Subject: Bid – SCADA System Upgrades for Water System

Thank you for the information regarding the bid results for upgrading the Supervisory Control And Data Collection (SCADA) system used by the Water System. As I understand it, the original system was installed by J.K. Duren Company of Roswell, and was expanded by MR Systems of Norcross when the South Fayette Treatment Plant was constructed. The Water System needs to upgrade remote telemetry units (RTU) at various locations, add three SCADA computer workstations, acquire the required license from the Federal Communications Commission, and conduct a study for related communication requirements.

Mallett Consulting advertised the invitation to bid (ITB) through the customary channels. This includes trade groups who share the information electronically or otherwise with companies in the industry (Reed Construction Data in Norcross, AGC Builder's Exchange Plan Room in Smyrna, and Construction Journal in Florida). They also posted the ITB on their website, and advertised in the Legal Notices section of a local newspaper.

With this being specialized technology, one would not expect a large number of companies to respond to the ITB. Indeed, three vendors responded by requesting bid packages. They included J.K. Duren Co. and MR Systems, both of which are mentioned above. The third vendor was C2I Control Instruments, which is headquartered in Smyrna. Ultimately, only J.K. Duren submitted a bid.

Mallett Consulting asked the two non-bidding companies why they had decided not to compete. MR Systems responded that they could not assure completion of the project within the timeframe specified in the ITB. C2I expressed the same concern with the timeframe. C2I also said they did not fully understand the specifications, and were not comfortable with the manufacturers for programmable logic card (PLC) components who were listed in the ITB. However, it should be noted that neither company raised questions or concerns prior to the bid opening.

Mallett Consulting obtained a third-party review of the bid that was received. The reviewing company, Atlanta Consulting Engineers, concluded that the bid prices appeared to be reasonable.

Because of the considerable efforts to advertise the ITB, the technical nature of the work itself, and the third-party confirmation that bid prices are fair, I believe that reasonable diligence was taken to bid this project in the best interest of the county. I support the recommendation.

**Atlanta Consulting Engineers, Inc.**
500 Sun Valley Drive, Unit G2, Roswell, GA 30076
Telephone (678) 205-2240 Fax (678) 205-2239
bal@atlconsengrs.com

June 18, 2013

Mallett & Associates, Inc.
101 Devant Street, Suite 804
Fayetteville, Ga. 30214

Attention: Mr. David Jaeger, P.E.

Ref: Fayette County SCADA system Bids

David:

I have reviewed the bid received for this Project and reviewed the prices provided by J.K Duren Co. The prices appear to be reasonable.

Please let me know if you have any questions or comments.

Thanks,

Sincerely,

S.N.Kulkarni, P.E.

S.C.A.D.A. UPGRADES
FOR FAYETTE COUNTY, GEORGIA

BID TABULATION

BID DATE: JUNE 4, 2013

CONTRACTORS REQUESTING BID PACKAGES

| ITEM # | DESCRIPTION | UNIT | EST. QUANTITY | J.K. DUREN CO. INC. UNIT PRICE | J.K. DUREN CO. INC. TOTAL PRICE | MR SYSTEMS UNIT PRICE | MR SYSTEMS TOTAL PRICE | C2i CONTROL INSTRUMENTS UNIT PRICE | C2i CONTROL INSTRUMENTS TOTAL PRICE |
|---|---|---|---|---|---|---|---|---|---|
| 1 | RTU Upgrades- Hwy 92 Elevated Tank, Complete. | L.S. | L.S. | $ 6,750.00 | $ 6,750.00 | | DID NOT BID | | DID NOT BID |
| 2 | RTU Upgrades- Peachtree City Elevated Tanks, Complete. | L.S. | L.S. | $ 6,000.00 | $ 6,000.00 | | | | |
| 3 | RTU Upgrades- Crabapple Elevated Tank & Booster P. S. | L.S. | L.S. | $ 6,750.00 | $ 6,750.00 | | | | |
| 4 | RTU Upgrades- City of Fayetteville Elevated Tanks, Complete | L.S. | L.S. | $ 6,000.00 | $ 6,000.00 | | | | |
| 5 | RTU Upgrades- Westbrigde Road Control Valve, Complete | L.S. | L.S. | $ 5,250.00 | $ 5,250.00 | | | | |
| 6 | RTU Upgrades- Hwy 92 Control Valve, Complete. | L.S. | L.S. | $ 13,500.00 | $ 13,500.00 | | | | |
| 7 | RTU Upgrades- Peachtree Pkwy-Walt Banks Rd Control Valve | L.S. | L.S. | $ 5,250.00 | $ 5,250.00 | | | | |
| 8 | RTU Upgrades- Hwy 74 North Control Valve, Complete. | L.S. | L.S. | $ 5,250.00 | $ 5,250.00 | | | | |
| 9 | RTU Upgrades- Tyrone Road Control Valve, Complete. | L.S. | L.S. | $ 6,000.00 | $ 6,000.00 | | | | |
| 10 | RTU Upgrades- Hwy 54-Burch Road Control Valve, Complete. | L.S. | L.S. | $ 13,500.00 | $ 13,500.00 | | | | |
| 11 | RTU Upgrades- City of Fayetteville-Hwy 92 Control Valve | L.S. | L.S. | $ 6,000.00 | $ 6,000.00 | | | | |
| 12 | RTU Upgrades- Lake Horton Intake Flow Meter, Complete. | L.S. | L.S. | $ 6,000.00 | $ 6,000.00 | | | | |
| 13 | RTU Upgrades- fHwy 74/54 16" Control Valve, Complete. | L.S. | L.S. | $ 13,500.00 | $ 13,500.00 | | | | |
| 14 | RTI Upgrades- Hwy 54-Shekerag Hill 16" Control Valve | L.S. | L.S. | $ 13,500.00 | $ 13,500.00 | | | | |
| 15 | RTU Upgrades- Lake Peachtree Raw Water Pump Station | L.S. | L.S. | $ 4,000.00 | $ 4,000.00 | | | | |
| 16 | RTU Upgrades- Starrs Mill Raw Water Pump Station | L.S. | L.S. | $ 6,000.00 | $ 6,000.00 | | | | |
| 17 | RTU Upgrades- Loghouse Well, Complete | L.S. | L.S. | $ 6,000.00 | $ 6,000.00 | | | | |
| 18 | RTU Upgrades- Horton Creek Reservoir Raw Water Pump | L.S. | L.S. | $ 6,750.00 | $ 6,750.00 | | | | |
| 19 | RTU Upgrades- Sandy Creek Rd 16" Control Valve, Complete | L.S. | L.S. | $ 6,000.00 | $ 6,000.00 | | | | |
| 20 | RTU Upgrades- Jenkins Rd Control Valve, Complete. | L.S. | L.S. | $ 6,000.00 | $ 6,000.00 | | | | |
| 21 | OMITTED | L.S. | L.S. | N/A | N/A | | | | |
| 22 | OMITTED | L.S. | L.S. | N/A | N/A | | | | |
| 23 | RTU Upgrades- Kiwanis Field Well, Complete. | L.S. | L.S. | $ 5,250.00 | $ 5,250.00 | | | | |
| 24 | RTI Upgrades- Lake Kedron Dam, Complete. | L.S. | L.S. | $ 5,250.00 | $ 5,250.00 | | | | |
| 25 | RTU Upgrades- Flint River Raw Water Pump Station | L.S. | L.S. | $ 5,250.00 | $ 5,250.00 | | | | |
| 26 | RTU Upgrades- Flint River Flow Meter at So. Fayette WTP | L.S. | L.S. | $ 5,250.00 | $ 5,250.00 | | | | |
| 27 | RTU Upgrades- Hwy 92 North Contorl Valve, Complete. | L.S. | L.S. | $ 5,250.00 | $ 5,250.00 | | | | |
| 28 | RTU Upgrades- Ellis Road Elevated & Tank Booster Pump St | L.S. | L.S. | $ 6,750.00 | $ 6,750.00 | | | | |
| 29 | RTU Upgrades-Lake McIntosh Raw Water Pump Station | L.S. | L.S. | $ 2,000.00 | $ 2,000.00 | | | | |
| 30 | New Lake Level Transmitter at Horton Creek Pump Station | L.S. | L.S. | $ 4,000.00 | $ 4,000.00 | | | | |
| 31 | Computer Hardware, software, programming and licenses for 3 SCADA workstations. | L.S. | L.S. | $ 93,000.00 | $ 93,000.00 | | | | |
| 32 | Acquisition and/or modification of FCC licenses required for operation of new SCADA system equipment. | L.S. | L.S. | $ 4,500.00 | $ 4,500.00 | | | | |
| 33 | Radio Path Study for new SCADA system communication requirements. | L.S. | L.S. | $ 5,000.00 | $ 5,000.00 | | | | |
| 34 | Allowance Per Special Conditions | L.S. | L.S. | L.S. | $10,000.00 | | | | |
| | **TOTAL BASE BID** | | | | **$ 299,500.00** | | $ - | | $ - |