



Fulton County, GA

Department of Purchasing & Contract Compliance

Cecil S. Moore, CPPO, CPPB, CPSM, C.P.M., A.P.P
Director

January 6, 2011

Re: 11ITB75460YC-BL, Supply and Installation of Domestic Water Pumps

Dear Bidder:

Attached is one (1) copy of Addendum 1, hereby made a part of the above referenced Invitation to Bid #11ITB75460YC-BL, Supply and Installation of Domestic Water Pumps.

Except as provided herein, all terms and conditions in the 11ITB75460YC-BL referenced above remain unchanged and in full force and effect.

Sincerely,

William E. Long, Jr., CPPB
Chief Assistant Purchasing Agent

This Addendum forms a part of the contract documents and modifies the original RFP documents as noted below:

**FEDERAL E-VERIFICATION PROGRAM
(Registration Information)**

Fulton County Government participates in the Federal E-Verify Program which is an internet based system that allows businesses to determine the eligibility of their employees to work in the United States. Fulton County is required to post its Federal ID Number and the date of registration with E-Verify on its website. In order for your bid submittal to meet our responsiveness criteria, your company/firm must provide your E-Verify number. **Failure to provide your firm's E-Verification number when submitting your bid may be cause to render your bid submittal non-responsive.**

To obtain your E-Verify number, please go to the website listed at the end of this directive to register your company. In compliance with Georgia Law, the Fulton County Board of Commissioners on December 2, 2009, established Policies and Procedures for the implementation of the requirements of the Act. To register your company/firm in the E-Verify Program, please go this link, <http://www.uscis.gov/portal/site/uscis/menuitem.eb1d4c2a3e5b9ac89243c6a7543f6d1a/?vgnextoid=75bce2e261405110VgnVCM1000004718190aRCRD&vgnnextchannel=75bce2e261405110VgnVCM1000004718190aRCRD>

QUESTIONS / RESPONSES

1. **QUESTION:** Per your instructions I am formally writing a question that came up during today's walk through. As the specification is currently written par 7.2.4 states "New units are intended to be installed adjacent to the existing units." There are several problems with this scheme and I will outline below.

The new units call for VFD's and VFD controls. The old units are the old technology using PRV's and constant speed controls. Traditionally mixing variable and constant speed technology is not a good idea. With constant speed you are either at zero or one hundred percent. The exact opposite happens in a variable speed system. Normally you are some where in between zero and one hundred percent. A variable speed system probably operates at 100% only two to three percent of the time. Therefore when pairing in the two systems together the constant speed system tends to bully the variable speed system by putting out too much pressure and the two units tend to fight each other. Also there is a reaction difference with the VFD/Constant speed system in that the VFD system reacts by a electronic signal where as the constant speed system has a control valve and pilot and reacts much slow that the VFD system.

To complicate matters if you elect to put in and not take out the two old systems you will be required to pull a new electrical service for both new units. It appears

there is no existing breaker to pull from and if that is the case a new distribution panel is going to need to be added and new conduit and wire pulled to the new stations. The cost to do this will run 25-35 thousand each unit depending how far and how the unit can be tapped and what switch gear will need to be added.

I am told you want redundancy and that is why the old systems were being left. It would be much cheaper to change both systems over to triplex systems making each pump 50 percent capacity. This way if you loose one pump you still have one hundred percent capacity. The theory here is to make each pump equal so that all pumps get equal run times and that each duty cycle the number two pump becomes the lead pump. Loose one pump and controls automatically drop the failed pump and controls adjust to operate with just two pumps until the down pump gets repaired. The cost to change the duplex system would be approximately less than 10 thousand dollars total for both systems which is a lot cheaper than the 50-70 thousand dollars required to pull new service. I checked the 20hp service and you have a large enough breaker, wire and conduit to accommodate the third pump but the smaller system needs to be checked to assure that it has enough going to it to accommodate the larger service required to go with a triplex system.

If you elect to get rid of the old units make sure you add some wording that the old unit must be removed so you don't get stuck with having to remove the units them selves. I would be happy to discuss in more detail the operation of both schemes. I founded Flopak the manufacturer of the 20hp system and sold it to Patterson Pumps in 2001 and now represent Flopak/Patterson the company I founded. I have been involved with over five thousand projects, so I have extensive knowledge how these systems work and what can and more importantly what can't be done to give you a working trouble free system.

RESPONSE:

The scope of work has been amended based on the cost savings identified. The revised scope of work calls for replacing the existing units at both facilities. The existing unit will be removed and disposed off.

2. QUESTION: I am a supplier of domestic water booster pump stations. Section 7 in the specifications does not give the current system GPM capacities. Is this information available?

RESPONSE:

This information is not available now.

3. QUESTION: Mr. Long, We have figured out a way to keep existing units while installing the new units along side of it with the same electrical power source. By the use of a manual transfer switch. Just need to know if the scope will change from previous scope.

RESPONSE:

We are changing the scope of work for the sake of saving costs and simplicity

4. QUESTION: How tall is each building? What is the water pressure coming into each building? What is the water pressure required at the top of the loop for each building? How many fixtures does each building have? (i.e. sinks, toilets, etc....). Does these buildings have back flow preventers already installed? If not, we must install as part of City of Atlanta plumbing code.

RESPONSE:

The buildings are about 110 feet tall at the pump location. City water pressure at 80 psi comes in to the building.

Water pressure at the top level is a design feature; but a pressure of 40 psi is considered standard for the functions

***Number of fixtures – Justice Tower – 610
Government Center – 120***

The buildings have no back flow preventors installed within the buildings. It is not known whether City of Atlanta has any device attached to the water meters.

REVISIONS TO THE ORIGINAL SCOPE OF WORK ARE AS FOLLOWS, FOR THESE ITEMS ONLY:

7.1.4 The new system when installed will replace the existing pump system for the building. The suction and delivery headers of existing system may be used only if they satisfy the design requirements for the new system.

7.1.5 The system must have new control panels and the control panels must have indication devices like run, stop and fault lamps, running hour counter for each motor, and selector switch/s

7.2 Supply and Installation of new units.

7.2.1 The pump sets shall be supplied with variable speed control using frequency variation.

7.2.2 The Justice Tower will have a triplex system with two units operating at any given time. The Government Center will have a duplex system as existing now

7.2.3 The variable frequency drives must be provided with a manual bypass so that the operation of the pumps will be possible should there be any problem with the drive

7.2.4 Installation includes all necessary measuring devices like pressure gauges and necessary protection devices like back flow prevention preventer where applicable

7.2.5 New units are intended to be installed adjacent to existing units

7.2.6 Installation work requiring disruption of water supply to the building shall be carried out only during week ends.

7.2.7 Existing units must be removed and disposed off as instructed by the Building Mechanic Manager of Central Fulton

ACKNOWLEDGEMENT OF ADDENDUM NO. 1

The undersigned proposer acknowledges receipt of this addendum by returning one (1) copy of this form with the proposal package to the Purchasing Department, Fulton County Public Safety Building, 130 Peachtree Street, Suite 1168, Atlanta, Georgia 30303 by the RFP due date and time **Wednesday, January 12, 2011, 11:00 A.M.**

This is to acknowledge receipt of Addendum No. 1, _____ day of _____, 2011.

Legal Name of Bidder

Signature of Authorized Representative

Title