



**City of Rochester Hills
AGENDA SUMMARY
FINANCIAL ITEMS**

**1000 Rochester Hills Dr.
Rochester Hills, MI 48309
248.656.4630
www.rochesterhills.org**

Legislative File No: 2008-0557

TO: Mayor and City Council Members
FROM: Roger H. Rousse, DPS Director; Ext. 2497
DATE: November 10, 2008
SUBJECT: SCADA System Upgrade
City File No. E08-026

REQUEST:

City Council is requested to award a contract to Perceptive Controls, Inc., of Plainwell, Michigan with a project budget amount not to exceed \$92,021 plus a 5% contingency of \$4601.05 for a total of \$96,622.05 for upgrade and relocation of the Rochester Hills SCADA system.

REASON FOR PURCHASE:

The Rochester Hills Supervisory Control and Data Acquisition (SCADA) system provides real-time monitoring of key components of the water and sewer distribution network. The SCADA system is a very important resource that helps the Department of Public Services employees maintain a consistently acceptable and reliable service for the water and sewer utilities. DPS employees use SCADA daily to monitor pressures in various water mains, troubleshoot alarms, and review the pumping performance of sanitary sewer pump stations.

A major upgrade of the City's SCADA system was completed in June 2003. The major upgrade was the replacement of an obsolete proprietary SCADA system that was no longer supported and had very limited capabilities for alarm notification feedback. The new SCADA system upgrade has performed very well for alarm notification and real-time monitoring compared to the older replaced system.

During the construction of the new DPS building at 511 Auburn, the useful life of the existing SCADA servers was discussed and their ability to handle being moved from the old DPS facility. The servers that run the current SCADA system are still located in the old DPS garage building. The City's SCADA system maintenance vendor and City MIS personnel both agree that the current servers are fragile and moving them is very risky. It is possible that the servers will be damaged during the move and the SCADA system function would be lost until replacement servers could be installed based on an emergency response. This risk is deemed unwise and unacceptable. The existing servers have now exceeded their planned service life and need to be replaced. Furthermore, the software programs for the SCADA system monitoring, archiving and reporting functions are still the same version as originally installed in 2003 and need to be upgraded.

After further evaluating the dilemma, DPS decided to make a request for proposals to replace and/or upgrade existing SCADA system hardware and software components. Proposals were received on August 18, 2008 and after review and an interview, it was decided to select Perceptive Controls, Inc. for the project. During the course of finalizing the scope of services, it was discovered that an existing rainfall monitoring station is still mounted on the roof of the existing DPS facility and it also needs to move to the new building. It was also decided that two new electrical circuits should be installed to the communications room (one circuit for the

rainfall recording device and one circuit for the SCADA system). The electrical work for the circuits and a mount for the rainfall-recording device will be provided by the City with costs attributed to the SCADA project.

It is estimated that the work performed by Perceptive Controls, Inc. will be completed two to four weeks after commencement of the project.

PROCESS:

Vendor Name and Address:

Perceptive Controls, Inc.
 951 Industrial Parkway
 Plainwell, MI 49080

Reason for Selection:

Quality Based Selection in response to a Request for Proposal process for professional services

Method of Purchase:

Blanket Purchase Order

BUDGET:

Monies for this work were appropriated with the second quarter budget amendment. The cost proposal from Perceptive Controls, Inc. is attached for City Council’s review and reference. As mentioned above, it is expected that expenses for running two circuits within the DPS Garage Building to the Communications Room and providing a mounting unit for the relocated weather station device will also run through this contract. The proposal cost for the weather station electrical is only a portion of the electrical work needed to relocate this equipment from the old to the new building. DPS will coordinate with the Facilities Division to have the work completed and charge the expenses to the project. It is expected that the approved second quarter budget amount will be sufficient to cover the anticipated costs for relocating the rainfall monitoring device, installing two new electrical circuits to the DPS garage communications room and the work covered by the Perceptive Controls, Inc. cost proposal.

Fund Name	Department Account No	Account No. Description	Budget Amount	Cost	Remaining Budget
Water/Sewer Capital Fund	593.977000	Equipment – Capitalized SS-01B 2 nd Qtr Budget Amendment	\$75,000.00	\$75,000.00	-0-
Water/Sewer Capital Fund	593.977000	Equipment – Capitalized SS-01B – 2008 Adopted Budget	\$24,000.00	\$24,000.00	-0-

RECOMMENDATION:

It is recommended that Council award a contract to Perceptive Controls, Inc. with a total project budget amount not to exceed \$92,021.00 plus a 5% contingency of \$4601.05 for a total of \$96,622.05 for upgrade and relocation of the Rochester Hills SCADA system.

APPROVALS:	SIGNATURE	DATE
Department Review		
Department Director		
Budget Content: Finance Director		
Purchasing Process: Supervisor of Procurement		
Mayor		
City Council Liaison		

Attachment(s): New Pricing Schedule for SCADA Upgrade – Perceptive Controls Rev1.pdf

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