

# CITY OF HIGH POINT

## AGENDA ITEM



<b>TITLE:</b> Eastside Wastewater Treatment Plant (WWTP) Supervisory Control and Data Acquisition (SCADA) Upgrade - DSI Innovations LLC	
<b>FROM:</b> Robby Stone – Public Services Director Derrick Boone – Asst. Public Services Director	<b>MEETING DATE:</b> April 1, 2024
<b>PUBLIC HEARING:</b> n/a	<b>ADVERTISED DATE/BY:</b> January 5, 2024
<b>ATTACHMENTS:</b> Letter of recommendation Certified Bid Tabulation	

**PURPOSE:** To contract with DSI Innovations LLC for the upgrade of the Supervisory Control and Data Acquisition (SCADA) system at the Eastside Wastewater Treatment Plant (WWTP).

**BACKGROUND:** A SCADA system is the software and hardware elements that allow the Eastside WWTP operators to control and monitor the wastewater treatment processes by directly interfacing with plant equipment/machinery and viewing real-time data. The current SCADA hardware/software, Programmable Logic Controllers (PLCs), and communication network at the Eastside WWTP were installed in the early 2000's and are outdated. Replacement hardware has become obsolete and there have been ongoing issues with the communication network. The SCADA upgrade project will include the following:

- The replacement of existing personal computers throughout the plant.
- Conversion to SCADA Software Ignition by Inductive Automation. Program screens, reports, update tags and other listed tasks.
- The installation, programming, rewiring, and proof of functionality for (22) new PLCs.
- The installation of new fiber optic cabling between all the new PLCs.
- The modification and upfit of the new server room; including new server rack hardware, software, and new backup system.
- Additional items identified in the project specifications.

There were two (2) Contractors who submitted bids at the February 21, 2024, bid opening. The contract was re-bid and bids were opened on March 13, 2024. A total of two bids were received for the advertised project. DSI Innovations LLC was the lowest bidder.

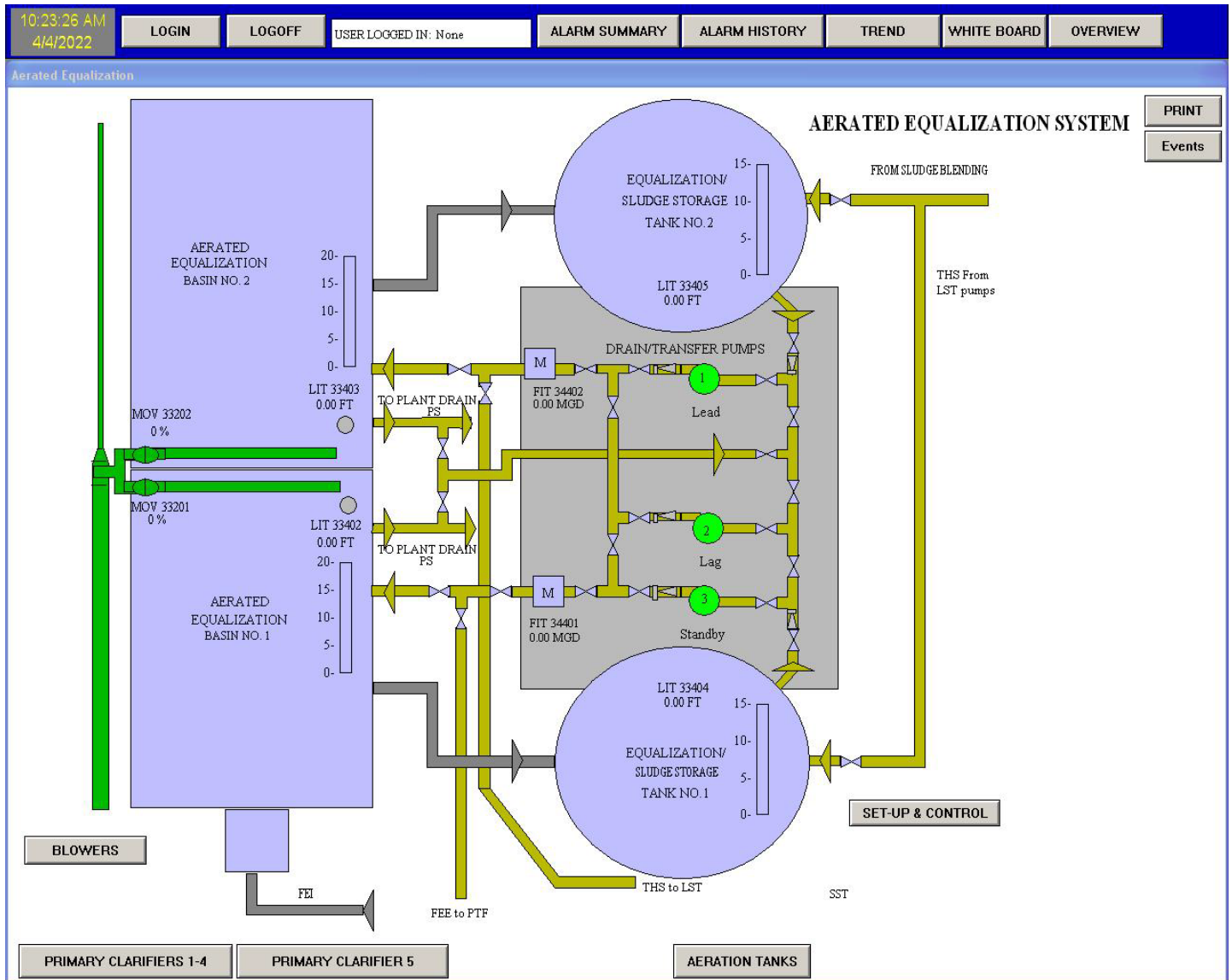
**BUDGET IMPACT:** Funds for this project are available in the FY 2023-2024 Budget.

**RECOMMENDATION/ACTION REQUESTED:** The Public Services Department recommends approval of the contract, and that the appropriate City official and/or employee be authorized to execute all necessary documents to award the project to DSI Innovations LLC in the amount of \$2,278,306.



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Example of an existing SCADA Screen



**Example of a PLC cabinet that will be replaced as part of the project.**



March 20, 2024

Libby Rush  
City of High Point  
PO Box 230  
High Point, NC 27261

Re: Eastside SCADA Project Improvements

Dear Ms. Rush:

Bids were received on March 13, 2024, for the above referenced project. A total of two (2) bids were submitted and read. The certified bid tabulation is attached.

After review and consideration of the bids submitted, I recommend acceptance of the lowest bid by DSI Innovations LLC in the amount of \$758,021.00 (Base Bid)/\$1,520,285.00 (Alternate Adder)/with \$5,959.00 (Software Maintenance Annually)

Please feel free to call with any questions or comments.

Sincerely,

A handwritten signature in black ink, reading 'Randall W. Sturgill', is located below the 'Sincerely,' text.

Randall W. Sturgill, PE  
Sturgill Engineering, PA

**Bid Summary**  
**City of High Point, North Carolina**  
**Eastside SCADA Project Improvements**  
**Bid 25-020724**  
**Wednesday, 3/13/2024 2:00 PM**

Contractor	Bid Bond	MWBE	Addendum 1	Prequalified	Mandatory Base Bid Amount:	Alternate Adder Bid Amount	Software Maint. Annually
DSI Innovations LLC	Y	Y	Y	Y	\$ 758,021.00	\$ 1,520,285.00	\$ 5,959.00
Dorsett Controls	Y	Incomplete	Y	Y	\$ 1,122,084.50	-	\$
					\$	\$	\$
					\$	\$	\$
					\$	\$	\$
*Notes:							

I certify that this is a true tabulation of bids received.

  
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 Signature