



## Board of Aldermen Request for Action

**MEETING DATE:** 3/5/2024

**DEPARTMENT:** Public Works

**AGENDA ITEM:** Resolution 1325, Awarding Bid No. 24-01 Water Treatment Plant Improvements

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### **REQUESTED BOARD ACTION:**

A motion to approve Resolution 1325, awarding Bid No. 24-01 Water Treatment Plant Improvements David E. Ross Construction Company in the amount of \$1,363,800 and approving a force account of \$100,000 for a total project cost of \$1,463,800.

### **SUMMARY:**

The Water Treatment plant was constructed at the Helvey Drive location in 1968, with a plant capacity of 0.5 MGD. The plant was expanded in 1993 adding three filters and increasing the capacity to what we have today of 2.5 MGD.

The work on the base bid includes:

1. Replacement of existing pneumatic valve actuators with electric valve actuators within the filter pipe gallery.
2. Replacement of influent mud valves for Filters No. 1 and No. 4.
3. Removal and replacement of existing filter media within Filter No. 1 through 5.
4. Replacement of Filter No. 3 underdrain.
5. Demolition of the bubbler system and installation of new level switch at the Transfer Pump Wet Well.
6. Replacement of turbidimeter taps within the Filter Gallery.
7. Replacement of the existing Lime and Powder Activated Carbon (PAC) chemical feed equipment and dust collection systems.
8. Relocation of select pipe supports and replace of select U-Bolts associated with the Submerged Launder Pipe for Secondary Clarifier No. 2.
9. Replacement of doors at the PAC and Chlorine dioxide rooms.
10. Associated Demolition, Structural, Architectural, and Electrical.

The work on the alternate bids includes:

1. Alternative 1: Replacement of Filter No. 1 and 2 valves within filter pipe gallery.
2. Alternative 2: Replacement of Filter No. 3, 4, and 5 valves within filter pipe gallery.
3. Alternative 3: Preparation and re-coating of all exposed process piping, valves, fittings, and nuts and bolts in filter pipe gallery and transfer pump rooms.

Three Bids were received from qualified contractors (bid tab attached) with the low bid received from David E. Ross Construction Co. in an amount of \$1,363,800 for the base bid and all alternates. Staff and engineering firm HDR both recommend awarding the base bid plus all the alternates (see attached Engineers recommendation). Ross Construction has done work before with the City and completed projects on time and staff is very pleased with the work this firm completes.

This is a rehabilitation and improvement project, undoubtedly the contractor will run into unforeseen issues or problems that will have to be addressed and staff is recommending a Force Account of \$100,000 to address those issues. This would bring the total project amount to \$1,463,800.

The 2024 Budget contained \$900,000 for this project. Additional funds in the amount of \$563,800 are needed to fund this project.

Already bid projects that have come in under budget include:

Project	Budget	Bid	Savings
Bar Screen	\$325,000	\$158,000	\$167,000
Residuals Removal	\$400,000	\$238,000	\$162,000
Not Purchasing sewer jetter	\$200,000	N/A	\$200,000
Total Savings			\$529,000

Staff has also proposed the following projects be postponed until 2025 providing an additional expenditure authority:

Interconnect Mains at 144 <sup>th</sup> /169 Highway ( <b>\$2, Construction</b> )	\$55,000
Highway 92 & Commercial Waterline ( <b>Engineering</b> )	\$125,000
Smith's Fork Park Waterline (Construction)	\$170,000
Total	\$350,000

The total savings from projects already bid and the total of proposed postponed projects is \$879,000, this provides sufficient funds for the Water Treatment Plant Improvements.

**PREVIOUS ACTION:**

None

**POLICY ISSUE:**

Maintaining infrastructure / providing safe drinking water

**FINANCIAL CONSIDERATIONS:**

This project was included in the 2024 Budget in an amount of \$900,000. Project savings and other projects postponed will provide the additional funds needed for this project. All funding is from the Combined Water and Wastewater System Fund.

**ATTACHMENTS:**

- |   |                                   |
|---|-----------------------------------|
| <input type="checkbox"/> Ordinance  | <input type="checkbox"/> Contract |
| <input checked="" type="checkbox"/> Resolution                                | <input type="checkbox"/> Plans    |
| <input type="checkbox"/> Staff Report   | <input type="checkbox"/> Minutes  |
| <input checked="" type="checkbox"/> Other: bid tab<br>Engineer Recommendation |                                   |

**RESOLUTION 1325**

**A RESOLUTION AWARDING RFP 24-01 WATER TREATMENT PLANT IMPROVEMENTS TO DAVID E. ROSS CONSTRUCTION COMPANY IN THE AMOUNT OF \$1,363,800 AND APPROVING A FORCE ACCOUNT OF \$100,000 FOR A TOTAL PROJECT COST OF \$1,463,800**

**WHEREAS**, the City maintains a water treatment plant for the production of potable drinking water; and

**WHEREAS**, the plant was expanded in 1993 adding 3 filters increasing the capacity to 2.5 MGD; and

**WHEREAS**, after a bid process, as outlined in the City Purchasing Policy, and reference checks, staff is recommending the bid received from David E. Ross Construction Co. is the most responsive and best bid received and the most advantageous to the City for a total amount of \$1,363,800 including all alternatives and approve a force account of in the amount of \$100,000 for a total project cost of \$1,463,800.

**NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF ALDERMEN OF THE CITY OF SMITHVILLE, MISSOURI:**

**THAT** Bid No. 24-07, Water Treatment Plant Improvements is hereby awarded to David E. Ross Construction Company in the amount of \$1,363,800 and approving a Force Account of \$100,000 for a total project cost of \$1,463,800.

**PASSED AND ADOPTED** by the Board of Aldermen and **APPROVED** by the Mayor of the City of Smithville, Missouri, this 5<sup>th</sup> day of March, 2024.

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Damien Boley, Mayor

ATTEST:

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Linda Drummond, City Clerk



February 27, 2024

Charles Soules, Public Works Director  
City of Smithville  
107 W. Main Street  
Smithville, MO 64089

**RE: RFP #24-01 Water Treatment Plant Improvements  
HDR #10370103**

Dear Mr. Soules,

HDR reviewed three (3) bid packets from the February 20, 2024 bid opening for the referenced project. Upon preparation and review of the Tabulation of Bids, HDR has confirmed that the low bidder for the above referenced project was David E. Ross Construction Co. The Base Bid was \$1,074,800.00 and the total Base Bid with Add Alt No. 1, 2, and 3 was \$1,363,800.00. A copy of the Tabulation of Bids is attached.

The Engineer's Opinion of Probable Construct Cost for the base bid was \$1,045,979.00 which is within 3% of the lowest bid. Considering the market volatility that has been seen over the past four years, this is a good result.

HDR has worked closely with the City during the design phase to develop the Base Bid and Add Alternates and recommends that the City proceeds forward with the Base Bid project with Add Alternate No. 1, 2, and 3 due to age and conditions within the filter pipe gallery. Add Alternates No. 1, 2, and 3 include the following:

- 1) Alternative 1: Replacement of Filter No. 1 and 2 valves within the filter pipe gallery.
- 2) Alternative 2: Replacement of Filter No. 3, 4, and 5 valves within filter pipe gallery.
- 3) Alternative 3: Preparation and re-coating of all exposed process piping, valves, fittings, and nuts and bolts in the filter pipe gallery and transfer pump rooms.

Inclusion of Add Alt No. 1, 2, and 3 will rehabilitate critical components within the filter gallery that are essential for providing the City of Smithville with clean and reliable drinking water. Photographs of the current condition within the gallery are attached to this document.

We reached out to David E. Ross Construction Co. to confirm everything is in order to work on this project. David E. Ross Construction Co. also confirmed that they were comfortable with their bid amount and contract period (construction period will be dependent upon equipment procurement). David E. Ross Construction Co. has an extensive history with water treatment plant construction and would be able to start the project as soon as possible if awarded.

HDR has received a list of recent projects and references from David E. Ross Construction Co. HDR has worked with David E. Ross Construction Co. on many projects over the years, including the Smithville Wastewater Treatment Plant (WWTP) Expansion in 2007 and the WWTP Digester Improvement Project in 2023. Both projects were successfully completed to the Owner's satisfaction.

HDR recommends awarding RFP #24-01 Water Treatment Plant Improvements to David E. Ross Construction Co., in the amount of \$1,363,800.00. If the City of Smithville concurs, please return a signed copy of the attached Notice of Award. HDR will forward it along with the required Contract Documents to David E. Ross Construction Co.

Please let me know if there are any questions or if you would like to discuss any of these comments. I can be reached at (816) 347-1176 or [Derek.Patrick@HDRinc.com](mailto:Derek.Patrick@HDRinc.com).

Sincerely,  
HDR Engineering Inc.



Derek A. Patrick, P.E.  
*Project Manager*

Cc: Bob Lemley – *Utilities Superintendent*  
Jennifer Gardner – *WTP Chief Operator*  
David Schuerger – *Utilities Crew Leader*

Attachments: Water Treatment Plant Improvements – Bid Tabulation  
Smithville WTP Filter Gallery Photos  
Notice of Award





## Smithville WTP Filter gallery Photographs



## NOTICE OF AWARD

Date of Issuance: **February 27, 2024**  
Owner: **City of Smithville, Missouri** Owner's Project No.: **RFP #24-01**  
Engineer: **HDR Engineering, Inc.** Engineer's Project No.: **10370103**  
Project: **Water Treatment Plant Improvements**  
Contract Name: **Authorization 99**  
Bidder: **David E. Ross Construction Co.**  
Bidder's Address: **10201 E. 75<sup>th</sup> Street, Raytown, MO 64138**

You are notified that Owner has accepted your Bid dated February 20, 2024, for the above Contract, and that you are the Successful Bidder and are awarded a Contract for:

Water Treatment Plant Improvements

The Contract Price of the awarded Contract is \$1,363,800.00. Contract Price is subject to adjustment based on the provisions of the Contract, including but not limited to those governing changes, Unit Price Work, and Work performed on a cost-plus-fee basis, as applicable.

Four unexecuted counterparts of the Agreement accompany this Notice of Award, and one copy of the Contract Documents accompanies this Notice of Award, or has been transmitted or made available to Bidder electronically.

Drawings will be delivered separately from the other Contract Documents.

You must comply with the following conditions precedent within 15 days of the date of receipt of this Notice of Award:

1. Deliver to Owner Four counterparts of the Agreement, signed by Bidder (as Contractor).
2. Deliver with the signed Agreement(s) the Contract security (such as required performance and payment bonds) and insurance documentation, as specified in the Instructions to Bidders and in the General Conditions, Articles 2 and 6.
3. Other conditions precedent (if any): Affidavit of Work Authorization and Documentation (E-Verify)

Failure to comply with these conditions within the time specified will entitle Owner to consider you in default, annul this Notice of Award, and declare your Bid security forfeited.

Within 10 days after you comply with the above conditions, Owner will return to you one fully signed counterpart of the Agreement, together with any additional copies of the Contract Documents as indicated in Paragraph 2.02 of the General Conditions.

Owner: **City of Smithville, MO**

By (*signature*): \_\_\_\_\_

Name (*printed*): \_\_\_\_\_

Title: \_\_\_\_\_

Copy: Engineer