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## MEMORANDUM

**To:** Mayor and City Council Members  
Douglas Faseler, City Manager

**From:** Timothy J. Howe, Director – Water / Wastewater Treatment

**Through:** Rick Cortes, Assistant City Manager

**Subject:** Water / Wastewater Treatment Plant Improvements – CHANGE ORDER #2

**Date:** August 23, 2018

On April 3, 2018, City Council awarded a contract to RP Constructors, Inc. for Water / Wastewater Treatment Plant improvements in the amount of \$7,103,316.00. Included in these improvements are water filter rehabilitations, valve cover replacements, and automatic samplers.

Staff is requesting Change Order #2, for \$131,798.00, to provide the necessary funding to accomplish the items listed in the table below.

Item	Item Description	Amount of Increase
1	Installation of Underdrain Supports	\$38,065
2	Additional Valve / Cover Rehabilitation	\$3,375
3	Increase in Cost of Automatic Samplers	\$358
4	Demolition of Elevated Backwash Tank and Associated Piping	\$78,000
5	Walnut Branch WWTP Aeration Basin Slide Gate Repair	\$12,000
<b>Net Contract Increase</b>		<b>\$131,798</b>

**Item 1** – Due to the thickness of the existing concrete filter floor in eight of the twelve-filter basins, underdrain supports for the air scouring backwash system will be required as a condition of the manufacturer's warranty.

Since the required thicknesses of the concrete floors was identified in the bid documents, and are illustrated on the drawing sheets, the contractor agreed to cover all the material costs of \$40,227. The contractor will forgo the labor costs associated with this type of work. Typically, this type of work would costs approximately \$76,130. Please note that this increase does not affect the standing of RP Constructors original base bid in comparison with bids received from other contractors considered for this project.

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Additional costs associated with the installation of the underdrain supports are for a dedicated construction inspector to oversee the installation of the underdrain supports as recommended by the manufacturer. TRC Engineering provided a proposal for these services under the Master Services Agreement executed by the City and TRC in the amount not to exceed \$46,465.00. Upon City Council's approval of Change Order #2, the City Manager will approve TRC's proposal for underdrain installation inspection services. The cost of the inspection services is not included in this change order, although project contingency funds will be utilized for this expense.

**Item 2** – This change provides for the rehabilitation and associated work for 9 additional valve covers, for a total of 37 valve covers scheduled for rehabilitation; the original bid document identified 28 valves for rehabilitation.

**Item 3** – This change provides \$358.00 due to a manufacture's price increase in the auto samplers for the wastewater treatment plant. Please recall, RP Constructors agreed to hold their bid past the 90-day award deadline due to the City's challenge in acquiring the bridge attachment permit from TxDOT.

**Item 4** – This change allows the City to save future maintenance costs on the elevated backwash tank and associated pumps. Demolition of this elevated tank eliminates the immediate need to spend \$39,829.00 on a rate of flow controller that would be necessary to operate the new air scouring backwash system being installed on the water filters. Approval of Item 4, is a business decision that will recover cost by eliminating the need to paint the elevated storage tank in the near future at a projected cost of between \$100,000 and \$200,000.

**Item 5** – This change provides for the repair of a failed slide gate in the aeration basin at Walnut Branch Wastewater Treatment Plant. This repair was not included in the original document as it occurred recently. The failure has placed our biological treatment process at risk due to short-circuiting the biological treatment step. Allowing RP Constructors, who is currently working onsite, to repair this gate saves mobilization costs associated with other bidders and expedites the repair thus eliminating this risk to the treatment process.

City Council originally approved an award of \$7,103,316.00. Deduct change order #1 for \$550,000 was approved on May 15, 2018, reducing the contract amount to \$6,553,316.00. Approval of Change Order #2 for \$131,798.00 makes the new adjusted contract amount \$6,685,114.00. Staff recommends approval of Change Order #2 in the amount of \$131,798.00 and will be available to answer any questions at the Tuesday, September 4, 2018 City Council Meeting.