



Legislation Details (With Text)

File #: 2024-178 **Version:** 1 **Name:**
Type: Resolution **Status:** Passed
File created: 4/30/2024 **In control:** Board of Directors
On agenda: 5/22/2024 **Final action:** 5/22/2024
Title: Proposed Change Order No. 6
Contract No. 1903598
Construction Manager at Risk for the Assessment and
Rehabilitation of WRRF Yard Piping and Underground Utilities
CIP #216006/BCE Score: 79.0
Sponsors: Navid Mehram
Indexes: Wastewater Operations
Code sections:
Attachments:

Date	Ver.	Action By	Action	Result
5/22/2024	1	Board of Directors		
5/8/2024	1	Operations and Resources Committee		

Proposed Change Order No. 6
Contract No. 1903598
Construction Manager at Risk for the Assessment and
Rehabilitation of WRRF Yard Piping and Underground Utilities
CIP #216006/BCE Score: 79.0

Agenda of: May 22, 2024

Item No.: **2024-178**

Amount:	Original Contract	\$4,863,051.00
	Change Order No. 1	685,450.00
	Change Order No. 2	596,779.00
	Change Order No. 3	0.00
	Change Order No. 4	5,000,000.00
	Change Order No. 5	9,483,057.00
	Proposed Change Order No. 6	4,486,693.00
	New Contract Total	\$25,115,030.00

TO: The Honorable
Board of Directors
Great Lakes Water Authority

FROM: Suzanne R. Coffey, P.E.
Chief Executive Officer

Great Lakes Water Authority

DATE: April 30, 2024

RE: Proposed Change Order No. 6

Contract No. 1903598

**Construction Manager at Risk for the Assessment and
Rehabilitation of WRRF Yard Piping and Underground Utilities**

Vendor: The Christman Company

MOTION

Upon recommendation of Navid Mehram, Chief Operating Officer - Wastewater Operating Services, the Board of Directors (Board) of the Great Lakes Water Authority (GLWA), authorizes the Chief Executive Officer (CEO) to **enter into Contract No. 1903598, Proposed Change Order No. 6, “Construction Manager at Risk for the Assessment and Rehabilitation of the Water Resource Recovery Facility (WRRF) Yard Piping and Underground Utilities” with The Christman Company, at an increased cost of \$4,486,693.00 for a total cost not to exceed \$25,115,030.00 with no increase in time for a total duration of 1,812 days;** and authorizes the CEO to take such other action as may be necessary to accomplish the intent of this vote.

BACKGROUND

GLWA awarded Contract No. 1903598 (Construction Manager at Risk (CMAR) for the Assessment and Rehabilitation of the WRRF Yard Piping and Underground Utilities) to The Christman Company (TCC) (Construction Manager). This Contract is divided into several phases, including study, preliminary design, final design, and construction phase.

Five change orders have been issued under this Contract for investigation of underground utilities, assessment services, and construction services as follows:

- Change Order No. 1 in the amount of \$685,450.00 for additional investigation of the underground utilities for the study phase.
- Change Order No. 2 in the amount of \$596,779.00 for the preliminary and design phases for a total revised Contract amount of \$6,145,280.00.
- Change Order No. 3 extended the Contract time to align the completion of the final design between the CMAR and design Contracts, extending the completion date for bidding and negotiation of the final design packages and procure Board approval for funds for construction before the completion date.
- Change Order No. 4 extended the Contract time to align with the completion of the final design between the CMAR and the design Contract, also allowing for bidding and negotiation of the final design packages and procure Board approval for funds for all the construction. Change Order No. 4 also approved 5 million dollars in construction funds to begin advance work on demolition and abatement precursor work in the tunnels under the admin buildings and award the electrical Contract to begin work on large lead time items like design, submittal, and ordering of the transformer.
- Change Order No. 5 added construction funds to begin construction for ten (10) of the nineteen (19) improvements (SFE-12, SFE-13, SS-03, NG-02, ST-04, RS-01, PE-02, SW-28, SW-29, SW-31), and one (1) program SFE Gate Valve program and added additional time.

Acronyms:

- SFE - Screened Final Effluent
- NG - Natural Gas
- SS - Sanitary Sewer
- RS - Return Activated Sludge
- PE - Primary Electric
- SW - Secondary Water
- ST - Steam

JUSTIFICATION

This Contract has 19* separate improvements and one program. Change Order No. 6 adds funds for five (5) additional improvements (now 15 total improvements in construction through Change Order No. 6) (Common Trench (ST-02, CA-03, PW-16, SW-26), PW-17 (exterior lining, interior 8" parallel water main)) with Guaranteed Maximum Price (GMP) from TCC. The remaining four (4) of the nineteen (19) improvements will have an established GMP by TCC and come before the Board in a future change order.

Construction of these five (5) improvements under this Change Order is necessary to mitigate risk to the plant underground infrastructure and ensure regulatory compliance as these improvements maintain the WRRF critical underground infrastructure.

Acronyms:

- ST - Steam
- CA - Compressed Air
- PW - Potable Water
- SW - Secondary Water

*This is a correction to scribal error in prior board letters which stated there were twenty-one (21) improvements.

PROJECT MANAGEMENT STATUS

Original Contract Time	792 days (01/15/2021 - 03/17/2023)
Change Order No. 1	0 days
Change Order No. 2	0 days
Change Order No. 3	197 days (03/18/2023 - 09/30/2023)
Change Order No. 4	243 days (10/01/2023 - 05/30/2024)
Change Order No. 5	580 days (05/31/2024 - 12/31/2025)

Proposed Change Order No. 6 0 days
New Contract Time 1,812 days (01/15/2021 - 12/31/2025)

PROJECT ESTIMATE

Original Contract Price	\$4,863,051.00
Change Order No. 1	685,450.00
Change Order No. 2	596,779.00
Change Order No. 3	0.00
Change Order No. 4	5,000,000.00
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Proposed Change Order No. 6	4,486,693.00
New Contract Total	\$25,115,030.00

FINANCIAL PLAN IMPACT

Summary: Sufficient funds are provided in the financial plan for this project.

Funding Source: Sewer Construction Fund

Cost Center: Wastewater

Expense Type: Construction (5421-892211.000-616900-216006)

Estimated Cost by Year and Related Estimating Variance: See table below.

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Change Order No. 3	0.00
Change Order No. 4	5,000,000.00
Change Order No. 5	9,483,057.00
Proposed Change Order No. 6	4,486,693.00

New Contract Total:	\$25,115,030.00
Amended Financial Plan Estimate	<u>27,665,000.00</u>
Balance reserved for construction	\$2,549,970.00

COMMITTEE REVIEW

This item was presented to the Operations and Resources Committee at its meeting on May 8, 2024. The Operations and Resources Committee unanimously recommended that the GLWA Board adopt the resolution as presented.

SHARED SERVICES IMPACT

This item does not impact the shared services agreement between GLWA and DWSD.