

AMENDMENT NO. 4
TO
CONTRACT FOR PROFESSIONAL ENGINEERING SERVICES
W.O. 19-42
WEST END WATER TREATMENT PLANT PROJECT

THIS AGREEMENT, made and entered into on _____, by and between the following:

CITY OF BILLINGS, a Municipal Corporation,
Billings, Montana 59103,
Hereinafter designated the City

and

Burns & McDonnell Engineering Company, Inc.
9785 Maroon Circle, Suite 400
Centennial, CO 80112
Hereinafter designated the Contractor

WITNESSETH:

WHEREAS, the City and Contractor have entered into a contract dated August 26, 2019, for Contractor to provide engineering services to the City for Work Order 19-42 West End Water Treatment Plant Project, and;

WHEREAS, the City has need for additional engineering services, and;

WHEREAS, the City has authority to contract for consulting engineering services, and;

WHEREAS, the Contractor represents that he is qualified to perform such services, is in compliance with Montana Statutes relating to the registration of professional engineers and is willing to furnish such services to the City;

NOW, THEREFORE, in consideration of the terms, conditions, covenants and performance contained herein, or attached and incorporated herein, the Parties hereto agree as follows:

Appendix A, Section 3. Include the attached Final Design Scope of Work additions:

- Relocate the plant to the western portion of the City’s property in order to reduce the cost of future raw water transmission main construction and to minimize wetland impacts identified by the USACE.
- Coordinate with the GC/CM through February 2024. Additional redesign, estimating and bidding efforts were required to value-engineer the project and reduce its cost from the GC/CM’s October 2021 estimate.
- Add bidding phase services for the Zone 3 water line.

Appendix B, Section 1, Paragraph A. replace with the following:

ORIGINAL CONTRACT (August 26, 2019)

1. Task Series 100-800 – Preliminary Design	\$883,732
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AMENDMENT NO. 1 (April 26, 2021)

2. Task Series 1000 – Meetings and Project Management	\$444,614
3. Task Series 1100 – 30% Design	\$572,386
4. Task Series 1200 – CM/GC Selection	\$35,850
5. Task Series 1300 – Work Package 1	\$915,901
6. Task Series 1400 – Work Package 2	\$1,244,726
7. Task Series 1500 – Permitting	\$64,344
8. Task Series 1600 – Issued for Construction	<u>\$153,058</u>
WATER TREATMENT PLANT PROJECT TOTAL	\$3,430,879
9. Task Series 1700 – Pipelines Design	<u>\$347,463</u>
TOTAL, Amendment No. 1	<u>\$3,778,342</u>

AMENDMENT NO. 2 (August 27, 2021)

10. Task Series 1400 – Work Package 2	\$58,237
11. Task Series 1500 – Permitting	\$3,836
12. Task Series 1600 – Issued for Construction	<u>\$7,205</u>
TOTAL, Amendment No. 2	\$69,278

AMENDMENT NO. 3 (March 2, 2023)

A. Bidding services: Sanitary sewer mains	\$15,015
B. Membrane filter procurement & submittal review:	\$79,869
C. Rate escalation	\$87,506
D. Value engineering design efforts	\$76,309
E. Survey & Geotech for new WEWTP Site	<u>\$48,021</u>
TOTAL, Amendment No. 3	\$306,720

AMENDMENT NO. 4

13. Task Series 1800 – Design Scope Services	\$129,163
14. Task Series 1900 – Meetings and Early Construction Support	<u>\$218,794</u>
TOTAL, Amendment No. 4	<u>\$347,957</u>

All other terms and conditions of the contract to which this amendment applies shall remain in full effect.

CONSULTANT
NAME: Daniel D. Korinek
BY: Daniel D. Korinek
TITLE: Senior Vice President
DATE: July 20 2023

CITY OF BILLINGS, MONTANA

BY: _____
Mayor

DATE: _____

Basic Services of Engineer, Amendment No 4. City of Billings W.O. 19-42, West End Water Treatment Plant Project

Scope of Services

The following tasks summarize the scope of services for the additional design scope services for the West End WTP and early construction phase support.

TASK SERIES 1800 –Design Scope Services

Task 1801 – Civil Design for New Site:

Due to the site relocation from the corner of Hesper and Shiloh to the West, additional civil drawing development was required on the new site.

Task 1802 – Yard Piping for New Site:

Due to the site relocation from the corner of Hesper and Shiloh to the West, additional drawing development of the yard piping was required on the new site.

Task 1803 – Hydraulic Modeling:

Burns & McDonnell's Project Team will provide an analysis of the transmission main and new Zone 3 connection south of the Shiloh Conservation Area (focused on Pressure Zones 3) using the City's most recent update of its hydraulic model and prepare a Technical Memorandum (TM). Questions, comments, and discussion from the hydraulic analysis workshop and City comments from the Draft TM will be incorporated into the Final TM. This will help identify sizing of the high service pump station in addition to location and sizing of the water transmission main leaving the high service pump station. This task will include up to two meetings with the project team, City, and HDR to discuss recent modeling efforts/design criteria for the high service pump station.

The steady state model will analyze the existing conditions. It is assumed that multiple projects will need to be completed outside of this project to pump the full WTP capacity. The City will provide the design criteria for peak treatment plant pumping that should be used as a basis for design.

Additional hydraulic modeling was performed to incorporate the proposed Zone 4 pump station and impacts related to the WEWTP HSPS.

Task 1804 – WTP Corp Permitting:

The original scope included the submittal of one Corp permit. Since the WTP and the Hesper sewer required separate Corp permits, this is the associated change to convert from one permit to two permits.

Task 1805 – Environmental Figures Rework for Permitting:

Due to the force main relocation following 60% design, additional drawing development for permitting is required.

Task 1806 – Force Main Redesign to 60%:

Due to the force main relocation following 60% design, additional drawing development is required.

Task 1807 – Revised Lift Station Hydraulic Calculations

Due to the force main relocation following 60% design, additional lift station calculations are required.

TASK SERIES 1900 – Meetings and Early Construction Support

Task 1901 – CMGC Bidding Support and Questions:

Burns & McDonnell will assist the City's staff in answering questions concerning the design of the project. Burns & McDonnell will also be available to answer questions and issue bid addendums throughout the bidding process.

Task 1902 – CMGC Coordination:

Burns & McDonnell will coordinate with the selected CM/GC on value engineering, cost projections, design concept modifications, answer their questions, and attend meetings related to the CM/GC scope of work.

Task 1903 – Pretreatment Equipment Submittal Review:

The proposed design includes pretreatment equipment (flocculators, plate settlers, and sludge collectors). Pre-procurement of the pretreatment equipment will assist with design development. At 30% design, BMcD issued a procurement package for the equipment. BMcD will review the submittals and incorporate the selected equipment into the design development.

Task 1904 - Weekly Meetings & Project Management (January 2023 - September 2023):

The overall project schedule was extended previously to January 2023. The deadline extension was due to project decisions, equipment submittal duration, and other aspects out of Burns & McDonnell's control. This work includes additional progress meetings and project management that was due to extending deadlines out of Burns & McDonnell's control. Out of scope meetings and project management was noted in drafts of Amendment 3.

Task 1905 - Weekly Meetings & Project Management (October 2023 - February 2024)

The proposed project schedule has construction commencing in February 2024. Burns & McDonnell will need to complete additional work from October 2023 to February 2024 to facilitate project development. This work includes additional progress meetings and project management that was due to extending the schedule by not approving the CM/GC's GMP.

Task 1906 - Support During GMP Development (October 2023 - February 2024)

Burns & McDonnell will coordinate with the new CM/GC contractor during GMP development. Burns & McDonnell will assist in answering questions from subcontractors and the CM/GC contractor.

Task 1907 – Zone 3 Bidding Phase Services (Bid Advertisement, Pre-Bid Meeting, and Questions):

The project team will provide bid advertisement text to City for publication. Submission of the advertisement to publications and the cost for advertising will be the responsibility of the City. This task assumes distribution of plans and specifications will be done electronically using the City's Quest CDN service and through www.montanabid.com. No hard copies of the plans and specifications will be provided to the bidders. The plan holder's list will be maintained through Quest CDN.

Once the bid is advertised, the project team will answer prospective bidder's questions and hold a pre-bid meeting with interested bidders and suppliers. The project team will prepare an

agenda and meeting minutes for the pre-bid meeting. The project team will issue bid addendums, as needed.

Task 1908 – Zone 3 Bidding Phase Services (Prepare Bid Tabs and Recommendation of Award):

After the bid closes, the project team will analyze the bid proposals, publish a bid tabulation, and make a recommendation to the City for award.