

AMENDMENT #1 TO PROFESSIONAL SERVICES AGREEMENT

Grant Creek Lift Station Replacement Project

THIS PROFESSIONAL SERVICES AGREEMENT AMENDMENT #1 is made and entered into November 26, 2019, by and between the **CITY OF MISSOULA, MONTANA**, a municipal corporation organized and existing under the laws of the State of Montana, 435 Ryman St., Missoula, Montana 59802, hereinafter referred to as “City,” and **Morrison-Maierle, Inc.**, 3011 Palmer St, Missoula, Montana 59808 hereinafter referred to as “Consultant.”

Recitals

1. On August 16, 2019, the above parties entered into an agreement whereby the Consultant agreed to perform project initiation and project management, and conceptual engineering services, for which the City agreed to pay the amount of Eight Thousand, Nine Hundred Dollars (\$8,900), herein referred to as “Agreement.”
2. Since the execution of the Agreement, the parties desire to amend it as set forth in this Professional Services Agreement Amendment to include project initiation and project management, survey, preliminary design, final design, bidding services, and additional services at a cost not to exceed Seventy-Two Thousand, Six Hundred Dollars (\$72,600) for the additional work. This brings the total costs for the Agreement to \$81,500.
3. Provisions of the original contract dated August 16, 2019, that are not amended herein remain in full force and effect.

Amendment

In consideration of the mutual covenants and agreements herein contained, the receipt and sufficiency whereof being hereby acknowledged, the parties hereto agree to amend the Agreement as follows:

1. Paragraph 3, **Scope of Work/Task Deadlines**, is amended to incorporate the following Scope of Services for the Grant Creek List Station Replacement Project to include project initiation and project management, survey, preliminary design, final design, bidding services, and additional services, all as itemized in Engineering Fee Estimate, attached hereto as Exhibit A and Scope Of Services, attached hereto as Exhibit B.
2. Paragraph 4, **Payment**, is amended in the first sentence to read as follows: “City agrees to pay Consultant an amount not to exceed Eighty-One Thousand, Five Hundred Dollars (\$81,500.00) for services performed pursuant to the Scope of Services.”

IN WITNESS WHEREOF, the parties hereto have executed this instrument the day and year first above written.

CONTRACTOR:
Morrison-Maierle, Inc.

MAYOR
City of Missoula, Montana

John Engen

ATTEST:

APPROVED AS TO FORM AND CONTENT:

Martha L. Rehbein, CMC, City Clerk

Jim Nugent, City Attorney

(SEAL)

EXHIBIT A
GRANT CREEK LIFT STATION REPLACEMENT PROJECT - AMENDMENT NO.1
CITY OF MISSOULA, MONTANA
ENGINEERING FEE ESTIMATE - DESIGN ONLY
DATE: OCTOBER 31, 2019

TASK DESCRIPTION	PROJECT MANAGER	PROJECT ENGINEER	ENVIRONMENTAL SCIENTIST	RPR / SURVEY	CAD DESIGNER	CLERICAL	TOTAL HOURS	TOTAL COST
100 Project Initiation and Project Management								
101 Project Setup and Management	8						8	
102 Invoicing	8						8	
103 Railroad Access Coordination		4					4	
104 Sub-Consultant Coordination		4					4	
<i>Subtotal</i>	16	8	0	0	0	0	24	\$4,384
200 Survey								
201 Generate Existing Site Conditions		8		16	8		32	
202 Easement Acquisition		2		16	8		26	
<i>Subtotal</i>	0	10	0	32	16	0	58	\$7,012
300 Preliminary Design								
301 Geotechnical Investigation	2	4					6	
302 Conveyance Main and Lift Station Design Capacity Evaluation & Technical Memorandum	2	12			2	4	20	
303 Environmental Permitting	2						2	
Correspondence with Agencies			6			2	8	
Joint app			12			2	14	
Impacts Exhibit			4		8		12	
On-site visit w/agencies	2		4				6	
Wetland Delineation and Report	2		12		4		18	
304 Montana Rail Link and MDT Permitting	4		24		8		36	
<i>Subtotal</i>	12	12	62	0	22	8	122	\$14,646
400 Final Design								
401 Basis of Design Technical Memorandum	2	12					14	
402 Preliminary Design Drawings & Specifications	2	12			60		74	
403 Development Services Stage 3 - Preliminary Construction		2				2	4	
404 Final Design Drawings & Specifications	2	12			24		38	
405 Development Services Stage 4 - Release for Construction		4				2	6	
<i>Subtotal</i>	6	42	0	0	84	4	136	\$16,962
500 Bidding Services								
501 Upload Documents to Quest CDN and Printing		4			4	8	16	
502 Pre-Bid Meeting	4	8		4			16	
503 Correspondence with Bidders		20				8	28	
504 Addenda (assumes two during bidding)	2	10			2	4	18	
505 Bid Opening, Review and Recommendation of Award	2	8					10	
<i>Subtotal</i>	8	50	0	4	6	20	88	\$11,546
900 Additional Services								
901 Additional Services (Only use with City Authorization)							0	
<i>Subtotal</i>	0	0	0	0	0	0	0	\$2,800
TOTAL HOURS REQUIRED	42	122	62	36	128	32	428	
HOURLY LABOR RATE	\$201	\$146	\$120	\$118	\$111	\$75		
TOTAL COST OF LABOR	\$8,442	\$17,812	\$7,440	\$4,248	\$14,208	\$2,400		\$57,350
EXPENSES (SEE DETAIL BELOW)								\$15,219
ESTIMATED TOTAL ENGINEERING FEE (ROUNDED)								\$72,600

EXPENSE DETAIL

	UNITS	QTY	UNIT COST	TOTAL COST
Engineer Vehicle Mileage	miles	700	\$0.67	\$469
RPR Vehicle Mileage	days	0	\$20.00	\$0
Geotechnical Subcontract (Design + Construction)	lump sum	1	\$10,000.00	\$10,000
MDEQ Review Fees	lump sum	1	\$750.00	\$750
Agency Permitting Fees	lump sum	1	\$1,000.00	\$1,000
MRL Permit Fees + Safety Compliance	lump sum	1	\$2,000.00	\$2,000
Miscellaneous Expenses (meals, printing, full-size drawings, etc.)	lump sum	1	\$1,000.00	\$1,000
TOTAL EXPENSES				\$15,219

EXHIBIT B

AMENDMENT NO.1 TO A-7654

GRANT CREEK LIFT STATION REPLACEMENT PROJECT

City of Missoula Project No.: 2018-050

Morrison-Maierle Project No.: 1657.052-00

October 31, 2019

SCOPE OF SERVICES

Background. The City of Missoula is in the process of rehabilitating, replacing or bypassing the aging lift stations throughout its wastewater collection system. A majority of the existing lift stations were constructed in a wet well/dry pit configuration where the wastewater pumps are located below-grade in a metal enclosure. The Grant Creek Lift Station was evaluated in the 2011 Airport Interceptor Sewer Design Report with the alternative of abandoning the station by extending gravity sewer across West Broadway, Montana Rail Link right-of-way and Grant Creek.

In 2019, the City completed a more detailed evaluation of the cost effectiveness of rehabilitating the existing lift stations of Grant Creek and Momont #2 or abandoning them and redirecting the flow to new gravity mains. The evaluation completed a present worth analysis that showed that abandoning the lift stations and installing new gravity mains was the more cost-effective approach over the long term.

The City wishes to pursue this design approach and construct a new gravity main and decommission the existing Grant Creek lift station. A future improvement that will be necessary in order to accommodate future flow projections for this area will be the design and construction of a new gravity main to replace the Momont #2 Lift Station.

The Grant Creek Lift Station was initially constructed in 1980 as part of the Grant Creek Center Subdivision and SID #472. The lift station is a wet pit / dry pit station. The station serves tributary areas of Momont #2 Lift Station and gravity collection along Expressway, International Way and Patterson Road. With the Grant Creek Lift Station being the most downstream lift station along the Expressway to the Wye tributary area, improvements are needed to accommodate growth and upstream capacity improvements recently completed and/or planned in the Wye and Reserve Street areas.

The following scope of service and associated fee estimate include the engineering tasks necessary to develop construction documents for the installation of new 15-inch gravity main and the abandonment of the Grant Creek Lift Station.

Scope. The following scope includes tasks for the surveying, preliminary and final design, permitting and bidding services for the decommissioning and bypassing of the Grant Creek Lift Station with a new 15-inch sewer main. Construction administration and closeout engineering services will be added in the future with a contract amendment when the project goes out for construction. The details of the project scope are broken down in the following tasks.

TASK 100 – PROJECT INITIATION AND PROJECT MANAGEMENT

- **Project Setup and Management.** This task includes the work related to overall project setup as well as execution of any contract amendments or scope changes that may arise throughout the course of the project. This task also includes project management, such as coordinating with the City on critical issues, managing activities within task budgets and monitoring project progress. All work activities and project deliverables will be reviewed for conformance with quality control requirements and project standards. Project activities will be monitored for potential changes, with an emphasis on anticipating changes whenever possible, and with the City's approval, project tasks and approach will be modified to keep the overall project within budget and on schedule.
- **Invoicing.** This task includes preparation of monthly invoices associated with the work and submission to the City in a clear and concise format that illustrates the progress to date and budget status to date.
- **Railroad Access Coordination.** This task includes coordination for temporary access for the design team on to the properties owned by Montana Rail Link. Site access for design efforts may include coordination with Montana Rail Link when working within railroad right-of-way and fees associated with meeting the safety requirements (i.e. flaggers) while working on railroad property during design.
- **Sub-Consultant Coordination.** This task includes coordination and contracting efforts for sub-consultants. A geotechnical engineer will be required to determine soil characteristics supporting trenchless installation of utility casings and confirming groundwater elevations for constructability reviews.

TASK 200 – SURVEY

- **Generate Existing Site Conditions.** Morrison-Maierle will create a topographic survey that will be used for the design of the 15-inch gravity for the replacement of Grant Creek Lift Station. Survey data collected in March of 2011 will be supplemented with current utility locate survey data in efforts to maximize past surveying efforts. The survey crew will establish horizontal and vertical control in the area and gather topographic information needed to complete the design. Property boundaries will be established based on recorded documents and verified in the field with the location of property pins. Utility providers will be contacted to locate their respective utilities in the project area. The marked utilities will be incorporated into the design survey.

The depths of buried utilities may be critical for final design, it is assumed that the City of Missoula will assist in hydro-excavation and backfill for potholing existing utilities at planned sewer main crossings. It is also assumed that the City of Missoula will assist in providing the necessary information to establish property lines and easements within the vicinity of the lift station.

- **Easement Acquisition.** This task includes drafting easement documents for legal recording. Additional utility easements may be required for the preferred alignment, such easements would require easement exhibits and narratives. It is assumed that the City of Missoula will coordinate with property owners for negotiating and acquiring

such easements as needed for the project. Morrison-Maierle will provide exhibits to assist the City with these negotiations.

TASK 300 – PRELIMINARY DESIGN

- **Geotechnical Investigation.** Morrison-Maierle will sub-consult with a geotechnical engineer to conduct field sampling, conduct laboratory testing, evaluate groundwater conditions, and prepare a geotechnical report. The geotechnical engineer's scope will include two (2) borings at the location of the casings to an approximate depth of 25-feet. The report will include an analysis of the soil characteristics discovered and a recommendation for the method of trenchless technology to be utilized for the installing the casing.
- **Conveyance Main and Lift Station Capacity Evaluation and Technical Memorandum.** Evaluation of the existing flows at the Grant Creek Lift Station and impacts to the downstream collection system will be necessary. The 2011 Missoula Airport Sewer Report anticipated Momont # 1 and Momont #2 Lift Stations being removed from the tributary areas of the Grant Creek Lift Station and discharged to the downstream 15-inch gravity sewer "Line O" installed as part of the Mullan Road Corridor Sewer Project, RSID 8474.

This task includes evaluation of existing conditions and forecast flow conditions to verify proposed main line sizing for the bypass. Morrison-Maierle will utilize the computer model developed as part of the Wastewater Facility Plan to evaluate required future flow parameters.

Historical pump run time data from the Grant Creek and Momont #2 lift stations is anticipated to be provided by the City. Morrison-Maierle will evaluate and compare this data to real-time received from upstream lift station SCADA data collection for Momont #1. Two years of historical pump run time data will be reviewed as part of this task. Morrison-Maierle will review the data and provide copies of the analyzed data to the City for their records.

The recommendation will include assumptions for both population growth expected in this area as well as identify any limiting factors that may exist in the existing infrastructure (Line O on Mullan Road Sewer Corridor Project, RSID 8474). The information used will be included in a technical memorandum that will be submitted to the City for review and approval and will form the basis of design that will be used to obtain approval from MDEQ in Task 400.

- **Environmental Permitting.** This task will include permitting associated with work adjacent to and below Grant Creek and impacted tributary areas. It is anticipated that multiple permits will be required for the construction of the new sewer main. The following permits are anticipated to be required:
 - **MFWP SPA 124**
 - **DEQ 318**
 - **USACE 404**
 - **Missoula County Floodplain Administration Permit**

Morrison-Maierle will collect require field data for permit applications and to prepare a wetland delineation. Permits applications will be completed including a Joint Application, Impacts Exhibit and Wetland Delineation. An agency site visit is included in the scope. The City will be responsible for fees associated with these permits.

The permitting sought will be to open cut Grant Creek for the installation of the casing pipe and 15-inch gravity sewer pipe at times of low flow in the Creek.

- **Montana Rail Link and MDT Permitting.** This task will include entitlement permitting for Montana Rail Link (BNSF Delegated) right-of-way and MDT right-of-way. The following permits are anticipated:
 - **Montana Rail Link: Application for Pipeline New or Existing**
 - **Montana Department of Transportation: Utility Occupancy and Location Agreement**

Morrison-Maierle will coordinate with both agencies for a preliminary application and review prior to final design efforts. Final applications will be prepared and presented to the City of Missoula for review and application to MRL and MDT. The City will be responsible for fees associated with these permits.

TASK 400 – DESIGN

- **Basis of Design Technical Memorandum.** Morrison-Maierle will use the technical memorandum setup for the Lift Station flow capacity and build upon this report to include design aspects and features that are being utilized for the design of the Grant Creek Lift Station bypass. This aggregate technical memorandum will serve as the project Engineering Report required by the Montana Department of Environmental Quality (MDEQ) under Chapter 10 of Design Circular 2. The contents of this report will be based on Chapter 30 and Chapter 40 as necessary.
- **Preliminary Design Drawings and Specifications.** Once the design flows and routes are agreed upon, Morrison-Maierle will prepare a complete set of preliminary design documents (plans, specifications, cost estimates and contract documents) for the new sewer main and lift station decommissioning. The project manual will consist of front-end bidding and contract sections utilizing Morrison-Maierle's standard format, technical specifications, and design drawings. It is anticipated that the design drawings will consist of 1 coversheet, 2 general sheets, 2 civil/site sheets, 1 demolition sheet, 4 plan and profile sheets, and 3 detail sheets. Together with the design technical memorandum, the preliminary design drawings and specifications will be submitted to the City and the Montana Department of Environmental Quality (MDEQ) for review. The scope also includes the preparation of a preliminary construction cost estimate.
- **Final Design Drawings and Specifications.** After review comments are received from MDEQ, a response will be prepared to address the comments and incorporate any design changes into the final design package. Final coordination and correspondence with MDEQ to receive approval of the project design will take place and is included in this task.

- **Development Services Stage 3 – Preliminary Construction Plan Review.** This task includes the preparation and submission of the Stage 3 checklist to the City of Missoula Development Services along with the supporting documentation. This task will begin once the preliminary alignment has been selected and preliminary design is complete. Review comments that are received from Development Services will be responded to in memorandum format, as necessary.
- **Development Services Stage 4 – Release for Construction.** This task includes preparation and submission of the Stage 4 checklist to the City of Missoula Development Services along with the supporting documentation. This task will begin once MDEQ approval is provided. Review comments that are received from Development Services will be responded to in memorandum format, as necessary.

TASK 500 – BIDDING SERVICES

- **Upload Documents to Quest CDN and Printing.** This task includes preparing a PDF electronic file of the project documents, as well as all work associated with posting the project on the City of Missoula's Quest CDN. Morrison-Maierle will not print any drawings or sets of specifications for planholders. All documents will be providing electronically. The City of Missoula will be responsible for posting the invitation to bid in the applicable papers and will pay all advertisement efforts and costs, with Morrison-Maierle providing the City Clerk with the Invitation to Bid document.
- **Pre-Bid Meeting.** This task includes preparing for and conducting a pre-bid meeting. A pre-bid agenda will be prepared and meeting notes will be taken and published to the City's Quest site with any addendum. Following the meeting, a site visit will be conducted to familiarize Bidders with the project site and conditions of the existing lift station facilities and the bypass route.
- **Correspondence with Bidders.** During the bid period, which is anticipated to last for approximately four (4) weeks, the project manager, design engineer and office support staff will be available to field questions and calls from prospective bidders regarding details on how to obtain the project documents as well as technical inquiries relating to the project design. Responses to questions will be posted to the City's Quest site.
- **Addenda.** It is typical that during the bidding period items included in the design documents need to be revised based on feedback and input provided by the bidding Contractors. It is anticipated that two (2) addenda will be required during the bidding period to address any items brought up by bidders. This task includes preparation of the addenda (assumes 2), notifications being sent to all plan holders, and follow-up to provide proof of receipt of each addenda that may be issued.
- **Bid Opening, Review, and Recommendation of Award.** Morrison-Maierle's will attend the Bid Opening and gather the bid documents for review. We will prepare a checklist for our evaluation and review the bids, check Bidder references, prepare a bid tabulation, and prepare a bid recommendation letter for the City Council. Once authorization is provided, Morrison-Maierle will prepare the Notice of Award and

coordinate signatures of the contract documents electronically and distribute to the Contractor.

TASK 900 – ADDITIONAL SERVICES UPON AUTHORIZATION OF CITY

- **Additional Services.** Morrison-Maierle is available to provide additional services that may arise as part of the Work. If the City identifies additional or unknown tasks as necessary for project completion, these services would be completed on a time and materials basis with prior authorization for the City project manager. For the purpose of the fee estimated, additional services are budgeted at 5% of the total engineering fee.

WORK PRODUCTS:

- **Opinion of Probable Construction Cost**
- **Design capacity memorandum**
- **Basis of design memorandum**
- **Topographic survey**
- **Environmental permitting documentation**
- **MDT Utility occupancy permit and associated figures.**
- **MRL Application for Pipeline New or Existing and associated figures**
- **Hard copy construction drawings and specifications (up to 10 sets of half-size)**
- **Submittal for Montana Department of Environmental Quality review and approval for construction**
- **Submittal for Development Services Stage 3 – Preliminary Construction Plan Review**
- **Submittal for Development Services Stage 4 – Release for Construction**
- **Bid Tabulation and Recommendation for Award**

CITY RESPONSIBILITIES

- **Pump run times for a period of 2 year minimum.**
- **Staff participation in meetings and review of deliverables.**
- **Assist with submission of permits where approval or coordination of the utility owner is required.**
- **Easement negotiation and filling of easements as necessary**
- **Assistance in hydro-excavation by providing staff and equipment.**
- **Advertise project in local newspaper**