

April 15, 2022

Mr. Andrew Fisher, PE, CFM
Floodplain Administrator – City of Greeley
Via Email: andrew.fisher@greeleygov.com

RE: 12th Street Outfall Change Order Request No.2

Dear Andrew:

Thank you for the opportunity to submit this change order request for the 12th Street Outfall project. This proposal reflects work related to additional project coordination, design services requested, and services related to a CMAR contractor selection and coordination. Our proposed scope of services is described in detail below:

SCOPE OF SERVICES:

1. Project Management, Meetings, Coordination

This scope item reflects additional project meetings and coordination required for the design as well as coordination with the selected CMAR contractor. Tasks include:

- Up to twelve (12) additional design meetings. This additional will increase ICON's project meeting frequency from one (1) meeting a month to two (2) meetings per month for the remainder of the project.
- CMAR Meetings (12). An additional twelve (12) meetings are proposed to coordinate the design with the CMAR contractor. ICON will prepare meeting agendas and document meetings with meeting minutes.
- Public Art Coordination. An additional four (4) meetings are proposed to coordinate the design project with the City's chosen public arts contractor.
- Design iterations. Additional time is assumed to support these new items through design iterations, quantity take-offs, and input regarding project costs, construction sequencing and methods.
- Water and Wastewater coordination with the CMAR is also proposed through Kimley Horn.

2. Design Services

Additional design services included in this request include:

- Additional river restoration alternatives. This work includes the development of additional river restoration alternatives required to facilitate meetings with the Army Corps of Engineers for the 404 permit. This work reflects development of multiple restoration alternative options, including a minimal impact alternative as well as a restoration alternative following the historic alignments, as well as iterations required for on-site wetland mitigation.
- Work under this tasks includes identification of all impacted outfall systems and designs for changes to the outfalls at the river with the chosen restoration option.
- Other work included with this task includes:
 - Additional survey for outfalls and bridge structure,
 - Coordination of landscape items and ecological plant selection,
 - SUE and utility identification for the expanded limits,
 - Individual 404 Permit Coordination with COE
- Landscape Services to include temporary or permanent irrigation design for the pond area.

3. Easements

Three (3) additional easements are proposed to be added to the scope of services for permanent or construction easements.

4. Additional Design Tasks

This proposal includes the following optional design tasks that can be included at the request of the City.

- a. 4.1. Project CLOMR – This work includes the preparation and submittal of a FEMA CLOMR for the project, including the following. This work assumes that hydraulic models are prepared with current scope items associated with the FDP application, and that the FEMA review fee is paid for directly by the City. Work generally includes:
 - o Assembly of a CLOMR Report, applicable forms, annotated exhibits and documentation,
 - o Coordination of required property notices,
 - o Submission to City and FEMA,
 - o Revisions from comments received.
- b. 4.2. Illicit Discharge Design – Work includes the development of alternatives regarding design to help manage illicit discharges in the 12th Street stormwater system. Work includes development of alternatives, design development or minor infrastructure, and coordination with the City's stormwater department.
- c. 4.3. E.coli Design Treatment – This work reflects development of a formalized design strategy to monitor and treat E.coli at the water quality pond and outfall. Tasks include:
 - o Project coordination and meetings (up to 4 meetings).
 - o Research on stormwater control measures (SCMs) that will reduce E. Coli in non-point source stormwater.
 - o Integration into the overall stormwater collection hydrology and hydraulics for the pond.
 - o Review any provided data on E. Coli sources provided by the City or identify the need for additional sampling to determine source (pets, wildlife, human, etc.). If additional sampling is required, our team assumes this sampling will be completed by the City.
 - o Complete a site visit of the project corridor and tributary watershed.
 - o Facilitate and attend a conceptual design workshop with the project team, the City, and City identified stakeholders to discuss how and where SCMs could be feasibly added into the project.
 - o Preparation and submission of an Alternative Memorandum, documenting up to three (3) identified in the workshop. Conceptual Opinion of Probable Construction Cost (OPCCs) will be prepared for each alternative. One round of comments will be addressed.
 - o Coordination with the CMAR contractor for feasibility and input.
 - o Detailed engineering and design will be included with the design set, including Civil, Landscape, and Ecological design elements.
- d. 4.4 Operations and maintenance manual for detention, water quality, landscape and other pond features.
- e. 4.5 Contingency for Survey and SUE – This work reflects added and surveying and SUE needs for work along the river and within the project.

Project Fees & Schedule

Consultant will complete the Scope of Services for a base fee of \$299,700. In general, the work is anticipated to progress in accordance with the following schedule. A detailed breakdown of our fees is attached.

Task:	Dates:
1. Project Management, Meetings, Coordination	April – December 2022
2. Design Services	April – December 2022
3. Easements	April – December 2022
4. Additional Design Services	April – December 2022

Thank you again for the opportunity to assist the City of Greeley with this project. Please contact me with any questions about this proposal.

Sincerely,
ICON Engineering, Inc.



Craig D. Jacobson | Principal
 cjacobson@iconeng.com | (303) 221-0802 (o) | 303 898-9717 (c)

ICONENGINEERING

PROJECT ESTIMATING SHEET

DESIGN/ PHASES 12th Street Outfall Change Order No.2 Description	ICON Engineering							Washburn Surveyors	ERO	Lithos Engineering	SurvWest SUE	SAN Eng.	Kimley/Horn	Valerian	TOTALS
	Contract Mgr. Principal Eng I \$189 Hours	Project Mgr. Prof. Eng III \$169 Hours	Ind. QC Principal Eng. II \$189 Hours	Prof. Eng. II \$159 Hours	Eng. IV \$149 Hours	CAD/ GIS \$105 Hours	Misc. Direct Costs								
								Direct Ex.	Direct Ex.	Direct Ex.	Direct Ex.	Direct Ex.	Direct Ex.	Direct Ex.	
Task 1 PROJECT MEETINGS AND SUPPORT														Task 2 Subtotal	\$118,700
1.1 - Additional Project Meetings & Coordination (28 meetings)	28	84			42		\$1,440		\$1,000	\$15,000		\$6,000	\$25,300	\$9,000	\$83,486
1.2 - Minutes and Documentation	14	28													\$7,378
1.3 - Coordination for CMAR Selection	4	6													\$1,770
1.4 - Design Adjustments and Quantity Coordination	12	32			60	40	\$250							\$5,000	\$26,066
Task 2 DESIGN DEVELOPMENT														Task 2 Subtotal	\$43,873
2.2 - Alternatives for Channel Concepts for 404 Permit	6	12			24		\$15							\$1,200	\$7,953
2.3 - Wetland Mitigation Alternates	2	6			12	6	\$15		\$2,000					\$2,500	\$8,325
2.4 - Outfall Analysis and Adjustments	2	8			16	4	\$15							\$3,000	\$7,549
2.5 - Groundwater Monitoring									\$12,932						\$12,932
2.6 - Irrigation Design		2			4	4								\$5,760	\$7,114
Task 3 EASEMENTS														Task 3 Subtotal	\$2,346
3.1 - Easements (3)		2			2	2		\$1,500							\$2,346
Task 4 ADDITIONAL DESIGN SERVICES														Task 4 Subtotal	\$134,781
4.1 - CLOMR Submittal	8	32		68	34	16	\$350								\$24,828
4.2 - Illicit Discharge Design Services	4	16		18	8	6	\$60					\$4,000			\$12,204
4.3 - E.coli Design Treatment Services	22	40		24	52	44	\$50						\$32,800	\$5,600	\$65,552
4.4 - O&M Manual	2	20					\$32							\$1,000	\$4,790
4.5 - Contingency for Survey and SUE		4				6	\$101	\$6,000			\$20,000				\$27,407
TOTAL HOURS	104	292	0	110	254	128									\$299,700
	\$19,656	\$49,348	\$0	\$17,490	\$37,846	\$13,440	\$2,328	\$7,500	\$15,932	\$15,000	\$20,000	\$10,000	\$58,100	\$33,060	\$299,700
												Total Base Services		\$299,700	