

City of Blaine
Request for Council Action
Meeting Date: 02/13/2023

Subject: Amendment 002 to the G-street Sewer Improvements Project’s design contract with David Evans and Associates, Inc.

Department: Public Works

Prepared By: _____
(Digital Signature)

Agenda Location: Consent Agenda Council Action Unfinished Business

Action Needed:

Approve the Amendment 002 to the G-street Sewer Improvements Project’s design contract with David Evans and Associates, Inc. for the amended scope of work and duration of contract in an amount not to exceed \$85,000.

Attachments:

1. David Evans and Associates, Inc. Amendment 002 to the G-Street Sewer Improvements Project design contract.
 2. Fee estimates
-

Background/Summary:

The original scope of the project has been amended as following:

- Analysis of the sewer segment between MH 06-17 and MH 06-20, in the immediate vicinity of US Customs and Border Protection, SR 543 truck crossing inspection station. After the analysis and filed investigations, the area was not included in the final improvements because improving flow rate through that area was both less-necessary and more work-intensive than the initial estimates.
- Addition of four flow metering manholes in-line with the new sewer segments. Additional design and City SCADA coordination for the same.
- Develop Civil3D model and plans to revise alignment to follow 5th street and alley from G-street rather than parallel I-5 at downstream end of the project.
- Addition of storm sewer manholes and storm main for separate collection and conveyance of storm water.
- Addition of replacing existing AC water mains where sewer will cross such mains during construction.
- Additional task for identification of utility conflicts (gas, communication, and power) and documenting actions by the respective utility provider.
- Develop two memos supporting Public Works direction for the work to be completed by developer for upstream improvements. Provide support for City staff and legal counsel to draft an agreement to

AMENDMENT NO. 2

**G ST SEWER IMPROVEMENT (8TH ST TO I-5)
PROFESSIONAL SERVICES AGREEMENT BETWEEN
CITY OF BLAINE AND DAVID EVANS AND ASSOCIATES, INC.**

The G St Sewer Improvement (8th St To I-5) Professional Services Agreement between City of Blaine (“City”) and David Evans and Associates, Inc. (“Consultant”) effective March 25, 2021 (“Agreement”), as amended per Amendment No. 1 effective December 27, 2022, is hereby further amended as follows:

1. Add the following new sentence at the end of the first paragraph of Section 1, SCOPE:

“An additional scope of services is attached hereto as Exhibit “A-1” and incorporated herein by reference.”

2. Replace the first sentence of Section 3.A, under Section 3, COMPENSATION, INVOICING AND PAYMENT, with the following sentences.

“City shall pay Consultant on a time and material basis not to exceed \$615,000.00 for completed work and services rendered under this Agreement as provided in Exhibits “B” and “B-1” attached hereto and by this reference made part of this agreement. Hourly billing rates in Exhibit “B-1” supersede hourly billing rates in Exhibit “B”. Hourly billing rates presented in Exhibit “B-1” are subject to increase April 1, 2023.”

3. The attached Exhibit A-1 is added to the Agreement following Exhibit A.
4. The attached Exhibit B-1, including a fee estimate worksheet for services described in Exhibit A-1, and including 2022 Puget Sound Region Hourly Billing Rates, is added to the Agreement following Exhibit B.

This Amendment No. 2 shall be effective January 3, 2023.

In Witness Whereof the parties hereto have executed this Amendment No. 2 to the Agreement the date and year indicated above.

DAVID EVANS AND ASSOCIATES, INC.:

Rodney Langer, PE
Senior Associate, Senior Project Manager

Date

CITY OF BLAINE:

Michael Harmon
City Manager

Date

Gary McSpadden
Acting Public Works Director

Date

ATTEST:

Samuel Crawford
City Clerk

Date

**EXHIBIT A-1
AMENDMENT 2**

**City of Blaine
G St. Sewer Improvements
Design and Construction Support Services**

(A-1) Scope of Work

January 17, 2023

The scope of work is hereby amended as follows pursuant to the City's requests. Based upon additional closed circuit television (CCTV) inspection an additional area has been identified to be added to the original scope of sewer replacement work. Other changes to the scope include adjustment of the proposed alignment, addition of flow metering manholes, addition of storm sewer mains and manholes, additional developer project coordination, preparing the plans for phased construction, and additional public involvement support services. This amendment describes the design engineering and surveying services to be added to the original scope in support of the City's project to replace or bypass existing sewer mains east of I-5.

The additional sewer segment is between MH 06-17 and MH 06-20, in the immediate vicinity of the US Customs and Border Protection (CBP) SR 543 Truck Crossing inspection station.¹ The proposed alignment was revised to avoid work where no easements were found and to avoid work immediately adjacent to existing residential structures. The City requested addition of four flow metering manholes² in-line with the new segments. Based on City finding that some connections to the existing sewer in the alley north of G St. and west of 5th Ave are likely storm drain connections, the City requested addition of storm sewer manholes and storm main for separate collection and conveyance. Additional public input support was requested for work on private property and replacement of segments of existing AC water main was requested to be included where sewer will cross such mains during construction. Utility conflicts (gas, comm and power) were identified and documented for action by the respective utility provider. Additional support was requested to address resolution of differences regarding the development condition for construction of adjacent or overlapping sewer by a developer of property upstream of the subject project area. The City previously requested completion of an archaeological and cultural resources assessment. That was authorized and billed under the original management reserve task. This amendment increases the management reserve by a like amount. The project bidding and construction time has been deferred to 2023.

¹ Survey, geotechnical and design work was completed for the area, but the area was removed from the final construction plan when it became clear that improving flow rate through that area was both less-necessary and more work-intensive than the initial estimates.

² Metering equipment and power service will be added later by the City.

DEA will lead delivery of all tasks for the scope as amended. DEA's survey crew based in Bellingham will complete the office and field survey work for preparation of the construction plans existing conditions map. DEA will be supported by HWA GeoSciences, Inc. of Bothell for the geotechnical work described below and by APS for utility locating services.

The original scope of services shall remain in effect and shall be referred to for items not changed by this amendment. The scope of work added by this amendment is as follows:

Project Management

1.

- 1.1. Planning - Planning including scoping the additional services.
- 1.2. Monitoring and Control - Additional twelve months of monitoring and control services for extended contract duration.
- 1.3. Closeout - (no changes)

2. Existing Conditions Documentation

- 2.1. Site Survey and Base Map – For additional sewer segment area
 - 2.1.1. Utility locates of locatable (conductive) underground facilities along project segments by utility locating company.
 - 2.1.2. Complete right-of-way and topographic survey of project areas, within right of way and easement limits.
 - 2.1.3. Measure down from rim or grate elevations to determine depth and invert elevations for sewer and storm drain structures in project area.
 - 2.1.4. Prepare base map including right-of-way, existing survey monuments, surface features and existing utilities including side sewer tee locations from City-provided maps, permits and/or CCTV logs, for use in plan and profile sheet setup in Design phase).
- 2.2. Site Visit - Complete site visit with base map to review field conditions and refine existing conditions documentation for the additional project area.
- 2.3. Utility Records - Utility records research, review, and summary, including addition to base maps where applicable for the additional project area.
- 2.4. Geotechnical Evaluation - Complete a geotechnical evaluation of the additional project area. The evaluation shall include research for prior geotechnical evaluations in the area, consultation of soils and geological maps, completion of one soil boring up to 20 feet, sampling and lab analysis from soil borings addition of findings to the evaluation report.
- 2.5. Boblett St Trunk Replacement Evaluation - Evaluate opportunity to avoid portion of the Boblett St replacement work through the existing school parking lot, with a new parallel replacement or bypass section in public right of way around the parking lot.
- 2.6. Utility Conflict Documentation (new subtask) – Identify and document conflicts between existing power, gas and communication facilities following completion of research and base mapping for coordination by City with respective utility providers. Complete a site visit to review field conditions.

2. SEPA, Stormwater Permit, Public Information and Developer Cost Share

- 3.1. SEPA Checklist – add summary of findings from archaeological and cultural resources assessment and add general summary of potential additional 15” sewer segment east/north of the east end of the project.
- 3.2. General Stormwater Permit - (no changes)
- 3.3. Public Information - Provide additional detail for public works and planning staff to address impacts to private improvements in public sewer easements. Support additional City Council project status report.
- 3.4. Developer Cost Share – provide analysis of basis for developer cost share of upstream improvements, provide two memos supporting public works direction for work to be completed, provide support for City staff and legal counsel to draft an agreement to address differing interpretations, coordinate design integration with plans by others for additional upstream sewer improvements.

4. Design

- 4.1. Plans – revise plans to integrate and then remove³ additional sewer segments following survey of existing conditions near CBP facility. Prepare one additional erosion and sediment control plan sheet and one additional plan and profile sheet for the additional project area. Revise Civil3D model and plans to revise alignment to follow 5th and alley from G St rather than parallel I-5 at downstream end of project. Add stormwater plan and profile for connection of storm water drains presently connected to sanitary sewer. Research and develop draft and final details for flow metering manholes, including preliminary coordination with City SCADA consultant for equipment needs. Consider open-channel flumes and in-line pipe level and velocity sensor technologies. Include provisions for power and signal to future facilities outside roadways. Prepare plans in separate phases for potential phased construction contract.
- 4.2. Project Manual – add work or quantities to proposal form and special provisions for requirements unique to the plans revisions
- 4.3. Cost Estimate – add work or quantities to estimate for requirements unique to the plans revisions
- 4.4. Submittals - (no changes)

5. Bid Support

(No changes)

6. Construction Support

(No changes)

7. Management Reserve

³ Following evaluation of available slope, it was recommended and agreed by City that the added segments should be deferred for replacement with a larger and more comprehensive future replacement project upstream of MH 06-10.

Add back amount previously authorized and billed for completion of cultural and archaeological resources survey (\$11,333.00), to restore available remaining management reserve amount to \$15,575.00.

The City shall complete the corresponding work for this project as follows:

- Support coordination for access to Customs and Border Protection property and controlled areas to complete the survey, design, geotechnical and archaeological services in the scope of work.
- Provide all available sewer, water, and storm as built or record drawings and side sewer stub sketches (e.g., t-sheets, white cards) for the additional project area.
- Provide all available sewer easement records in the additional project area.
- Provide all available GIS datasets for City sewer, water and storm systems, and parcels for the additional project area.

(B-1) Deliverables

The following additional deliverables will be provided in PDF and native electronic file format only unless noted otherwise, as indicated in more detail in the Scope of Work:

- Geotechnical Report including additional boring and project area evaluation
- Additional erosion and sediment control plan and sewer plan and profile.
- Addition of flow meter manholes in segment plan and profile, and typical detail
- Addition of storm main and manholes in segment plan and profile
- Updated project manual and construction cost estimate
- Update SEPA checklist
- Updated Public Information summary
- Utility conflict documentation and exhibits
- Developer cost share memos and agreement input

(C-1) Schedule

The City has decided to defer start of construction of the subject work until 2023, with plans and project manual ready for bid in early 2023.

Attachment #2

David Evans and Associates, Inc.

Exhibit B-1 - Project Fee Estimate
G St. Sewer Improvements - Amendment 2
City of Blaine

Project Number COBL0PWD-2004

Date 1/17/2023

Prepared By RCLA/APSE

Estimated DEA Labor - Civil Engineering and Land Surveying Services									
Task/Subtask (1)	Personnel Positions and Hourly Billing Rates						DEA Labor		Total - w/ Subs., Exp. & Rounding
	Project Manager	Survey Manager	Two Person Survey	Design Engineer	CAD/GIS Technician	Admin. Assistant	Total Hours	Total Est. Fee	
	\$240.00	\$220.00	\$210.00	\$150.00	\$150.00	\$100.00			
1	Project Management						38	\$6,620.00	\$6,621.44
1.1	Planning	6			6		14	\$2,540.00	
1.2	Monitoring and Control/QC	12					12	\$4,080.00	
1.3	Closeout						0	\$0.00	
2	Existing Conditions Documentation						136	\$24,210.00	\$29,528.65
2.1	Site Survey/Base Map	2	3	24	12	24	65	\$11,580.00	
2.2	Site Visit	3			3		6	\$1,170.00	
2.3	Utility Records Research	1			3	3	7	\$1,140.00	
2.4	Geotechnical Evaluation	2			4		6	\$1,080.00	
2.5	Bobbett St Trunk Eval	6			4		10	\$2,040.00	
2.6	Utility Conflict Documentation	10			24	8	42	\$7,200.00	
3	SEPA, Stormwater Permit, Public Information and Developer Cost Share						50	\$9,840.00	\$9,970.94
3.1	SEPA Checklist	2			6		8	\$1,380.00	
3.2	CSWPP and NOI for State General Stormwater Permit						0	\$0.00	
3.3	Public Information/Council Presentation	12			12		24	\$4,680.00	
3.4	Developer Cost Share	12			6		18	\$3,780.00	
4	Design						171	\$27,540.00	\$27,545.98
4.1	Plans							\$0.00	
	Cover/General/Maps	2			4	8	14	\$2,280.00	
	Plan/Profile Sheets	11			32	40	83	\$13,440.00	
	Details/Std Plans	2			20	12	34	\$5,280.00	
	ESCP	2			8	8	18	\$2,880.00	
4.2	Project Manual	2			6		8	\$1,380.00	
4.3	Const. Cost Estimate	2			12		14	\$2,280.00	
4.4	Submittals/Followup						0	\$0.00	
5	Bid Support						0	\$0.00	\$0.00
5.1	Advertisement						0	\$0.00	
5.2	WCR posting						0	\$0.00	
5.3	Bidder Inquiries/Addenda						0	\$0.00	
5.4	Bid Review						0	\$0.00	
6	Construction Support						0	\$0.00	\$0.00
6.1	Preconst. Conference						0	\$0.00	
6.2	Shop Dwgs & Submittals						0	\$0.00	
6.3	RFI Response						0	\$0.00	
6.4	Construction Meetings						0	\$0.00	
6.5	Construction Staking						0	\$0.00	
6.6	Limited Observation						0	\$0.00	
6.7	Pay Estimates						0	\$0.00	
6.8	Changes						0	\$0.00	
6.9	Design Interpretation						0	\$0.00	
6.10	As-Constructed Survey						0	\$0.00	
6.11	Record Drawings						0	\$0.00	
7	Management Reserve						0	\$11,333.00	\$11,333.00
7.1	Management Reserve						0	\$0.00	
	Total	89	3	24	162	103	395	\$79,543.00	\$85,000.00

Estimated Direct Expenses	
Mileage	\$644
Subconsultants (Geotech/APS)	\$4,798
Total	\$5,442

Project Fee Estimate Summary and Total	
Total Estimated Labor	\$79,543
Total Estimated Expenses	\$5,442
Total Fee Estimate (Rounded)	\$85,000

Notes and Assumptions:

(1) See detailed Amendment 2 Scope dated January 17, 2023.

(2) All hours and expenses are estimated, and may be increased or decreased within the total budget limit at the discretion of DEA's project manager. The DEA project manager may transfer budget from estimated expenses to labor and vice versa, as the project manager may determine as appropriate. Work will be billed on a time and expense basis, subject to the limit of the not-to-exceed Total Fee Estimate (Rounded) value.

(3) Client shall be responsible for direct payment of all permit, agency review, advertisement, service or other project expenses not expressly included in the Project Fee Estimate and/or Scope of Work.