



Supplemental Agreement Number <u>01</u>		Organization and Address BHC Consultants, LLC 1601 5th Ave, Suite 500 Seattle, WA 98101	
Original Agreement Number 8806		Phone: 206-505-3400	
Project Number 20021809		Execution Date	Completion Date 12/31/2021
Project Title Wastewater Pump Station No. 13 Replacement		New Maximum Amount Payable \$ 1,391,000	
Description of Work Engineering services during construction for the replacement of wastewater pump station No. 13, new force main, and realignment of gravity sewer.			

The Local Agency of City of Redmond

desires to supplement the agreement entered into with BHC Consultants, LLC

and executed on October 1, 2018 and identified as Agreement No. 8806

All provisions in the basic agreement remain in effect except as expressly modified by this supplement.

The changes to the agreement are described as follows:

I

Section 1, SCOPE OF WORK, is hereby changed to read:

See attached Exhibit A.

II

Section IV, TIME FOR BEGINNING AND COMPLETION, is amended to change the date for completion of the work to read: December 31, 2022

III

Section V, PAYMENT, shall be amended as follows:

See attached revised Exhibit D and E.

as set forth in the attached Exhibits, and by this reference made a part of this supplement.

If you concur with this supplement and agree to the changes as stated above, please sign in the appropriate spaces below and return to this office for final action.

By: _____

By: _____

Consultant Signature

Approving Authority Signature

Exhibit A

SCOPE OF SERVICES Wastewater Pump Station No. 13 Replacement (Project No. 20021809) Supplement No. 1 Engineering Services During Construction

Statement of Understanding

Under the previous Wastewater Pump Stations No. 13 Replacement Consultant Agreement dated September 25, 2018, BHC Consultants, LLC (BHC) performed preliminary design, final design, and provided engineering services during bidding for the Wastewater Pump Station No. 13 Replacement (Project):

This Scope of Services is based on our current understanding of the work remaining to complete the Project. The work remaining is:

- Additional design services.
- Engineering services during construction.
- Review the Contractor prepared record drawings and prepare revised design drawings to incorporate project revisions identified by the Contractor and City staff.
- Develop the Electronic Operations & Maintenance Manual for the Project.

Scope of Services

The Scope of Services tasks are separated into five components where applicable:

1. Receivables: elements that will be provided by the City
2. Work Tasks: tasks that will be completed by the Consultant
3. Deliverables: the finished product that will be delivered to the City via electronic and hard copy
4. Assumptions: assumptions used to develop each Work Task
5. Meetings: Consultant team will work to minimize attendees at meetings, meetings with City staff will be conducted at the City's offices.

Task A: Project Management

Receivables:

- None

Work Tasks:

1. Coordinate with City staff by regular status reports, status meetings, telephone communication, and e-mail during the project.
2. Prepare monthly progress reports and monthly invoices, including financial status and progress.

Deliverables:

- Monthly status reports using City format with invoices and updated monthly schedule (Adobe pdf format)
- Up to two (2) hard copies and one (1) electronic copy (Adobe pdf format) of the Project Management Plan

Assumptions:

- The project will be completed by December 31, 2022.

Meetings:

- Four (4) status meetings

Task B: Additional Design Services

Receivables:

- None

Work Tasks:

1. Coordination with City and subconsultants.
2. Address additional review comments provided by the City.
 - a. Development of a groundwater monitoring plan.
 - b. Develop staging plan and dewatering plans.
 - c. Additional effort exceeding the available contingency to complete the Bid Documents including:

Deliverables:

- Final Bid Documents

Assumptions:

- Hours reflect recovery of work related to Prime and Subconsultant tasks for additional design services and corresponding revisions to the design drawings and specifications.

Meetings:

- None

Task C: Engineering Services During Construction

Engineering services during construction are a major contributor to project success and are needed to ensure construction is completed in accordance with the Contract Documents. The Consultant's degree of involvement can vary significantly, depending on the experience and performance of the Contractor as well as actual subsurface conditions encountered during construction. To address this issue, services beyond the identified scope of services will only be performed upon written authorization from the City.

This scope is based on our understanding that the City will provide a construction management team, hereinafter referred to as "Construction Management Team" to manage the construction contract and will provide an in-house Construction Observation Team (COT) that will provide construction observation services. The Consultant's services will be provided in support of the Construction Management Team and the COT.

Receivables:

- Contractor shop drawings/submittals, RFIs, change order requests, operations and maintenance (O&M) manuals, create contract clarifications and request for proposals.

Work Tasks:

1. Review technical shop drawings and submittals from the Contractor and provide suggested responses to the Construction Management Team.
2. Assist the Construction Management Team in resolving questions and Requests For Information from the Contractor.
3. Attend construction meetings when requested by the Construction Management Team.
4. Visit the construction sites to address issues that come up during construction that require input from the Consultant.
5. Provide written interpretations of the contract documents and/or drawings/sketches to the Construction Management Team as requested to supplement or clarify the contract documents.
6. Prepare revisions to the work or design for allowing the Construction Management Team to solicit proposals from the Contractor for necessary or desired changes in the work or design. The Construction Management Team will be responsible for preparing and issuing the subsequent change orders.
7. Prepare test checklist and attend Factory Acceptance Test (FAT) at TSI. Submit notes from FAT for City review.
8. Prepare test checklist and attend Field Test at pump station site. Submit notes from Field Test for City review.
9. Review the O&M manuals from the Contractor.
10. Provide electrical engineering support services during construction on an as required and requested basis.
11. Site visits by the Structural Engineer of Record to provide structural observation in accordance with the Building Code as follows:
 - a. Caisson reinforcement prior to placing concrete (prior to each pour).
 - b. Interior floor reinforcement prior to placing concrete.
 - c. Interior wall reinforcement prior to placing concrete.
 - d. Floor slab reinforcement, hatches, and formwork prior to placing concrete.
 - e. Steel roof framing
12. Cultural resources/archeological support services for implementation of the inadvertent discovery plan.
 - a. Prepare project specific inadvertent discovery plan
 - b. Meeting with COR project manager and contractor to review inadvertent discovery plan.
 - c. Construction crew cultural resources tailgate to review protocols for recognizing, protecting and reporting potential archaeological resources.
 - d. Check-ins consisting of site drive by and check-in by archaeologist
 - e. On-call site visits to assess potential discoveries and review for archaeological significance.
 - f. DAHP-compliant archaeological monitoring results report.

Deliverables:

- Written comments and recommendations on shop drawings/submittal reviews.
- Written interpretations and responses to questions and requests for information.
- Written documentation of field activities observed during site visits.
- Written comments and recommendations on Contractor developed O&M Manuals for each pump station.
- Written documentation supporting approved change order requests.
- FAT checklist and notes.
- Field Test checklist and note.
- Construction correspondence as required.
- Project specific inadvertent discovery plan.
- DAHP-compliant archaeological monitoring results report

Assumptions:

- Eighty (80) RFIs are assumed.
- One hundred (100) submittals are assumed.
- Fifteen (15) change orders are assumed.
- Forty (40) site visits/construction meetings are assumed
- On-site archaeological monitoring is not being required for this project.
- This scope is for archaeological resources only; built-environment resources are not included.
- One (1) archaeological meeting with archaeologist, COR project manager and contractor prior to construction.
- One (1) cultural resources tailgate for construction crew prior to construction.
- Check-in archaeological monitoring: Archaeological drive by/check-ins approximate 2-hour site review each (10 check-ins are assumed).
- On-call archaeological monitoring: Three (3) on-call archaeological site visits are assumed.
- No artifacts, cultural materials older than 50 years old, or human remains will be discovered at any time.
- No DAHP site or isolate forms require completion or updating.
- Special Inspections required by the Contract Documents and the Building Permit are excluded from this scope.

Meetings:

- Attend up to twenty (20) weekly construction meetings
- Attend up to twenty (20) site visits

Task D: Record Drawings

Receivables:

- Contractor and City inspector field record set of drawings
- City review comments on Draft Record Drawings

Work Tasks:

1. Prepare Record Drawings: incorporate modifications to the design drawings and prepare record drawings per City requirements.

Deliverables:

- Two (2) 11 x 17 hard copies and one electronic copy in PDF format of the Draft Record Drawings
- One (1) 22 x 34 Mylar hard copy and one electronic copy in PDF format of the Final Record Drawings
- One composite record drawing AutoCAD file

Assumptions:

- Construction Management Team will review the revisions that the Contractor has recorded on the field record set of drawings to determine the revisions adequately represent the as-built changes to the construction drawings.
- As constructed modifications to the drawings will be relatively minor.

Meetings:

- None

Task E: Electronic O&M Manual and Pump Station Bypass Plan

Receivables:

- City review comments on Draft O&M Manual
- City review comments on Draft Pump Station Bypassing Plan

Work Tasks:

1. Prepare a 75 percent hard copy O&M manual for City of Redmond review. The O&M manual will include an overview of the pump station operation and maintenance, and supplemental information that will include manufacturer's information on the equipment at the pump station.
2. Prepare a draft Bypass Pump Plan specific to Pump Station No. 13. The bypass plan will include drawing figures, descriptive text, and equipment requirements for the following operations.
 - a. Bypassing the station
 - b. Bypassing the force main
 - c. The equipment required to complete each bypassing operation
3. Incorporate City of Redmond review comments and issue a Final hard copy manual.
4. Incorporate City of Redmond review comments and issue a Final pump station bypass plan.
5. Provide electronic O&M Manuals including record drawings in the established format.

Deliverables:

- Two (2) hard copies and one electronic copy in PDF format of the Draft O&M Manual
- Two (2) hard copies and one electronic copy in PDF format of the Final O&M Manual
- Electronic O&M Manual in established format

Assumptions:

- The bypass plan will be a standalone document that may be incorporated into the Electronic O&M manual.

Meetings:

- One (1) review meeting

Task F: Management Reserve

Task F is included for ease of tracking the management reserve budget.

Receivables:

- Written permission from the City is required to perform management reserve tasks or to access project management reserve funds.
- To be determined

Work Tasks:

1. Project management reserve tasks to be determined.

Deliverables:

- To be determined

Assumptions:

- City to determine budget value of management reserve
- To be determined

Meetings:

- To be determined

BUDGET

The Total Supplement No. 1 budget for the Wastewater Pump Station No. 13 Replacement (Project No. 20021809) is attached as Exhibit D. This budget is based on, and in accordance with, the City's Consultant Guidelines Worksheet rate determination. The Total Project Budget is presented in the Supplement Agreement

PROJECT SCHEDULE

A detailed schedule will not be developed for the Services During Construction Supplement. The Project schedule is dependent on the selected Contractor's schedule for delivery of documents for review and attendance at meetings on an ad hoc basis.

Exhibit D Supplement 1

Consultant Fee Determination

Project Name: Wastewater Pump Station No. 13 Replacement -
 Project Number: 20021809
 Consultant: BHC Consultants, LLC

NEGOTIATED HOURLY RATES

Classification	Hours	DSC	Overhead 160%	Fee (Profit) 30%	Total Hourly Rate	Total
PIC, QA/QC (Ron Dorn)	127	\$ 82.50	\$132.00	\$24.79	\$239	\$30,390
PM (Noah Allen)	382	\$ 66.00	\$105.60	\$19.83	\$191	\$73,127
Project Eng (Cris Castro)	116	\$ 66.00	\$105.60	\$19.83	\$191	\$22,206
Structural Eng (Gustavo Francc	258	\$ 73.00	\$116.80	\$21.94	\$212	\$54,628
Staff Eng (Sara Palmerton)	224	\$ 41.00	\$65.60	\$12.32	\$119	\$26,638
CAD Manager (Patti Simon)	85	\$ 57.00	\$91.20	\$17.13	\$165	\$14,020
CAD (Svetlana Olsoe)	127	\$ 38.00	\$60.80	\$11.42	\$110	\$14,020
Proj Admin (Sarah Sifferman)	99	\$ 36.50	\$58.40	\$10.97	\$105.87	\$10,523
Admin (Uma Pierson)	43	\$ 44.00	\$70.40	\$13.22	\$127.62	\$5,437
Electrical Eng (Jeff Gibson)	244	\$ 79.50	\$127.20	\$23.89	\$230.59	\$56,264
Total Hours	1,705				Subtotal:	\$307,253

REIMBURSABLES

Mileage		\$696
Reproduction (copies, plots, etc.)		\$1,500
Miscellaneous		\$2,000
Subtotal:		\$4,196

SUBCONSULTANT COSTS (See Exhibit E)

KPG	\$4,924
Rolluda (see E3)	\$20,856
FSI (see E5)	\$20,660
ESA (see E6)	\$21,572
Landau	\$13,545
Subtotal:	\$81,557

Total: \$393,006

Contingency: 85,994

GRAND TOTAL: \$479,000

EXHIBIT E Supplement 1

Subcontracted Work

Project Name: Wastewater Pump Station No. 13 Replacement - Supplement
Project Number: 20021809
Consultant: BHC Consultants, LLC

The City permits subcontracts for the following portions of work of the Agreement:

Subconsultant	Work Description	Amount
KPG	Landscape Architect	\$4,924
Landau (see E2)	Geotechnical	\$13,545
Rolluda (see E3)	Architect	\$20,856
FSI (see E5)	HVAC	\$20,660
ESA (see E6)	Cultrual Resources/IDP	\$21,572
Total:		\$81,557

Exhibit E2

Consultant Fee Determination

Project Name: WWPS 13 Construction Support

Project Number:

Consultant: Landau Associates

NEGOTIATED HOURLY RATES

Classification	Hours	DSC	Overhead 213%	Fee (Profit) 33%	Total Hourly Rate	Total
Principal	8	\$ 83.08	\$176.57	\$27.62	\$287	\$2,298
Associate	36	\$ 54.86	\$116.59	\$18.24	\$190	\$6,829
Senior Engineer		\$ 43.27	\$91.96	\$14.39	\$150	
Project Engineer	12	\$ 37.16	\$78.98	\$12.36	\$128	\$1,542
Senior Staff Engineer	12	\$ 32.69	\$69.48	\$10.87	\$113	\$1,356
Staff Engineer		\$ 27.88	\$59.25	\$9.27	\$96	
Project Coordinator	12	\$ 33.00	\$70.13	\$10.97	\$114	\$1,369
CAD Operator		\$ 31.00	\$65.88	\$10.31	\$107.19	
Total Hours						80
					Subtotal:	\$13,395
REIMBURSABLES						
Mileage						\$150
					Subtotal:	\$150
SUBCONSULTANT COSTS (See Exhibit E)						
						Subtotal:

Total: \$13,545

Contingency:

GRAND TOTAL: \$13,545

Consultant Fee Determination

NEGOTIATED HOURLY RATES

GRAND TOTAL: \$20,856

Consultant Fee Determination

NEGOTIATED HOURLY RATES

Total:	\$20,660
Contingency:	
GRAND TOTAL:	\$20,660

Consultant Fee Determination

NEGOTIATED HOURLY RATES

GRAND TOTAL: \$21,572