

PROFESSIONAL SERVICES AGREEMENT AMENDMENT

Amendment No. 1

Date: May 20, 2020

Project: Christian Valley Park CSD – Reservoir Replacement Project

Hydros Job No. CVPC17-001

In accordance with the original Agreement dated February 2017 (Attachment A), the agreement changes as detailed below are authorized. Scope of work and fee estimate are included in Attachment B.

Tasks included below in this amendment include:

1. Preconstruction Activities: **\$10,490**
2. Construction Management and Inspection: **\$262,595**
3. Start-Up. **\$3,500**
4. Document Close Out **\$15,080**

Fees This Change Order:	\$291,665
Current Authorization:	\$258,349
Amended Agreement Amount:	\$550,014

Payments shall be made in accordance to the original agreement terms. All other items and conditions of the original Agreement shall remain in full force and effect.

Hydros Engineering, Inc.

Christian Valley Park CSD

Gerry LaBudde, Principal

Rolando de la Torre

Print Name and Title

Print Name and Title





Signature

Signature

May 20, 2020

5/20/20

Date

Date



March 16, 2020

SCOPE OF WORK

Christian Valley Park CSD – Reservoir Replacement Project

Engineering/Inspection Services During Construction

Scope of Work

We have prepared the following scope of work task descriptions for engineering services, inspection and project coordination during construction on the Reservoir Replacement Project. Our fee estimate is based on an assumed project duration about 16-months with half time inspection as summarized in Attachment A. We have assumed that the District will contract directly with the electrical engineer, landscape architect, coating inspector and the biologist for services during construction to avoid mark up. Hydros Engineering will coordinate other inspection disciplines as part of this scope of work.

Task 1: Pre-Construction Activities

Task 1.1 – Bid Period Services. Hydros Engineering (Hydros) will provide bid period services including the following tasks necessary for advertising and receiving bids for the project. Much of this work was completed under prior funding authorization although not in original scope of work. Billing will only cover outstanding time and expenses.

- a) **Prepare and Issue Addenda** – Prepare and distribute up to two (2) addenda for the project to address clarifications and contractor questions during bidding. Scope includes design and drafting and preparing the addenda. Addenda will be distributed to plan holders via Arc Documents. [Hydros completed; will need to pay ARC/Planwell]
- b) **Prepare and Attend Pre-Bid Meeting** – Hydros will prepare meeting agenda and hold the pre-bid meeting for prospective bidders at the site. Questions will be addressed and any clarifications necessary will be sent with the addenda. [Completed]
- c) **Receive and Evaluate Bids** – Hydros will attend the bid opening at the site. Bids will be evaluated for completeness and tabulated. Results will be presented to the District and the USDA for review including checklist for USDA requirements prior to award. [Ongoing]
- d) **Prepare Conformed Drawings** – Hydros will prepare the conformed contract documents based the addenda issued. The conformed contract drawings will be reissued. Scope includes reproduction of five (5) sets of full-size drawings and five (5) sets of half size drawings and ten set of specifications for the distribution to the District and contractor. [Included in scope]

Task 2: Construction Management and Inspection

Task 2.1 – Construction Management Hydros will provide the following construction management services for the project.

- a) **Meetings** – Hydros will prepare agenda and meeting minutes for project meetings as defined below. Hydros will run meetings and coordinate other consultants working on behalf of the

District. Anticipated meetings include:

- Pre-Construction (1)
 - Weekly progress meeting (60)
 - Special meetings (5)
 - Project close out meeting (1)
- b) **Submittal Review** – Review submittals and provide comments and distribution to the contractor and construction team via electronic files. We have assumed there will be approximately sixty (60) submittal/resubmittals.
- c) **Progress Pay Estimates** – Review contractor pay estimates for accuracy relative to the schedule of values. Letter recommendations will be prepared once concurrence has been reached with the contractor. Hydros will coordinate with the contractor, USDA and the District on recommendation for payment.
- d) **Contract Change Orders/RFIs** – Hydros will evaluate contractor request for contract change orders (CCOs) and requests for information (RFIs). We have assumed up to five (5) CCOs and twenty (20) RFIs.

Task 2.2 – Construction Management and Inspection Hydros will provide resident engineer and inspector. We have assumed that project will require a half time inspection on average over the assumed project duration. Additionally, we have assumed that inspector will be required to be paid prevailing wages whereas the resident engineer will not, consistent with public works requirements. We have budgeted up to 1,200 hours of inspection time on the project based on a total duration of sixteen (16) months.

Task 3: Start-Up

Task 3.1 – Start Up Services Hydros will provide engineering oversight on start up activities including the filter pumps, cut over on the temporary and final tie-in and the tanks to facilitate a smooth transitioning to the new facilities. We have included up to twenty (20) hours for this task in conjunction with operations support.

Task 4: Update Operations Plan and Prepare As-Built Drawings

Task 4.1 – Update the Operations and Maintenance Manual Hydros will update the existing Operations and Maintenance Manual (O&M manual) to reflect the modifications to the water treatment plant. Major changes include the new control system, filter feed pumps, stormwater system and tanks. Three hard copies will be reproduced.

Task 4.2 – As-Built Drawings Hydros will update the as-built drawings to reflect changes made during construction to the original design of the facility. Modifications made based on contractor and inspection notes to made during the construction activities.

Fee for Services

A breakdown of estimated costs for these tasks is presented on Attachment A and our entire contract amounts and associated amendments are summarized below: Our estimate assumes the duration of construction will be the entire construction period allowed to 16-months.

Bid Period Services	\$	10,500
Construction Period Service – Inspection and CM	\$	262,600
Start-Up and Document Close Out	\$	18,600
Total Agreement	\$	291,700

Man-Hour Schedule Proposal for Engineering and Construction Management Services for the CVP Reservoir Replacement Project

		Resident Engineer	Inspector/Eng Tech	Administrative	TOTAL HOURS	Total Hydros Labor	ARC Document Services	Salix Environmental	Control Point Engineering	CADWORKS	Mileage	Other Direct Costs	TOTAL
		\$175	\$145	\$70									
TASK 1 - Pre-Construction Activities													
1.1	Bid Services				0	\$0	\$3,000						\$3,000
a)	Prepare and Issue Addendum(s)	6			6	\$1,050				\$500			\$1,550
b)	Pre-Bid Meeting	2		2	4	\$490							\$490
c)	Bid Opening and Evaluate Bids including Coordination with USDA	8			8	\$1,400							\$1,400
d)	Setup Document and Quality Controls and Conformed Drawings	6			6	\$1,050				\$500		\$2,500	\$4,050
<i>Task 1 Subtotal</i>		22	0	2	24	\$3,990	\$3,000	\$0	\$0	\$1,000	\$0	\$2,500	\$10,490
TASK 2 - Construction Management and Inspection													
2.1	Contract Management Activities												
a)	Project Meetings (weekly mtgs, special meetings, closeout)	60		35	95	\$12,950							\$12,950
b)	Submittal Review	140		20	160	\$25,900							\$25,900
c)	Progress Pay Estimates	45		16	61	\$8,995							\$8,995
d)	Contract Change Orders/RFIs	80		25	105	\$15,750				\$4,000			\$19,750
2.2	Construction Inspection				0	\$0							\$0
a)	Onsite inspection - based on half time	500	700		1,200	\$189,000					\$6,000		\$195,000
<i>Task 2 Subtotal</i>		825	700	96	1,621	\$252,595	\$0	\$0	\$0	\$4,000	\$6,000	\$0	\$262,595
TASK 3 - Start-Up													
3	Engineering Related Start Up Activities	20			20	\$3,500							\$3,500
<i>Task 3 Subtotal</i>		20	0	0	20	\$3,500	\$0	\$0	\$0	\$0	\$0	\$0	\$3,500
TASK 4 - Document Close Out													
4.1	Update Ops Plan (includes reproduction)	48		2	50	\$8,540				\$2,500		\$250	\$11,040
4.2	As-Built Drawings (includes reproduction)	8		2	10	\$1,540				\$2,500		\$500	\$4,040
<i>Task 5 Subtotal</i>		56	0	4	60	\$10,080	\$0	\$0	\$0	\$2,500	\$0	\$250	\$15,080
TOTAL HOURS		923	700	102	1,725	270,165	3,000	0	0	7,500	6,000	3,750	291,665

Notes:
 1 Work efforts are based on the description of task provided in the proposal. Fee schedule included as Attachment B
 2 Work efforts do not include contingency; new authorization will be required for new or changed scope conditions.
 3 Estimated hours. Hydros reserves ability to reallocate hours shown above to alternative tasks if necessary depending on actual time utilized.

2020 Fee Schedule

Staffing

Principal Engineer	\$175/hr
Staff Engineer	\$125/hr
Engineering Tech	\$100/hr
Inspector (prevailing wage)	\$145/hr
Admin/Project Assistant	\$65/hr
Certified Operator	\$105/hr

Equipment and Direct Costs

Mileage	
Pick-Up	\$0.85/mile
Passenger Vehicle	\$0.55/mile
Direct Costs	Cost + 10%
Sub-Consultant	Cost + 10%
