

City of Key West

Change Order Request No.	01	Date:	1/10/2024
Key West Project No.:	SE35042006	BV Project Number:	411829
Project Name:	Richard A. Heyman Environmental Protection Facility – Dewatering System Upgrade		
Amount:	\$ 98,720		

Technical Background

Based on direction of the City of Key West, the scope of Task Order 10 was limited to the design of the replacement belt filter presses. During the project kick off meeting held on March 29, 2022, and the confirmation email received from the City on April 5, 2022, Black & Veatch was requested to estimate the additional effort required to include the design for a replacement polymer feed system and a replacement belt filter press sludge feed pumps system.

Additionally, as part of Richard A. Heyman Environmental Protection Facility Aeration Upgrades in 2019, design of a replacement belt conveyor was already performed up to a 90% level (Black & Veatch project 199322). As part of this amendment, Black & Veatch will include the update and final design of the replacement belt conveyor to be incorporated as part of the bid package.

During a conference call with the City on January 4, 2024, Black & Veatch was requested to include the design a potable water connection for the dewatering rinse water.

Scope of Work

As part of Task 103 – Detailed Design – Construction Documents Level 3 and Level 4 under the current scope of work, Black & Veatch will incorporate the design of a replacement polymer feed system, replacement sludge feed pump system, and replacement belt conveyor system. As part of the design effort, Black & Veatch will contact equipment manufacturers for updated design information and cost quotations. Specifications for the potable water plumbing materials, polymer feed system, sludge feed pump system, and belt conveyor system will be included in the design.

The additional design will require the following new drawings:

1. Solids Building Demo Plan – Belt Conveyor
2. Solids Building Demo Plan – Polymer Feed System
3. Solids Building Demo Plan – Sludge Feed Pump System
4. Solids Building – Belt Conveyor
5. Solids Building – Belt Conveyor
6. Solids Building – Belt Conveyor
7. Solids Building Enlarged Plans & Sections – Sludge Feed Pump System and Polymer Feed System
8. Solids Building Enlarged Plans & Sections – Belt Conveyor
9. Solids Building – Plumbing Plan & Section

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10. Electrical One Line Diagram
 11. Solids Building Power Plan – Belt Conveyor
 12. Solids Building Power Plan – Sludge Feed Pumps and Polymer Feed System
 13. P&ID – Polymer Feed System
 14. P&ID – BFP Sludge Feed and Water Booster Pumps
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Deliverables

These additional design from this amendment will be incorporated in the overall project design and included as part of the deliverables for Task 103.

Schedule

An updated schedule is included as Attachment 1.

Compensation

As detailed in Attachment 2 “Level of Effort Estimate,” compensation for the scope of services described herein will be for the lump sum fee of \$98,720. Monthly invoices will be submitted to the City based on project progress.

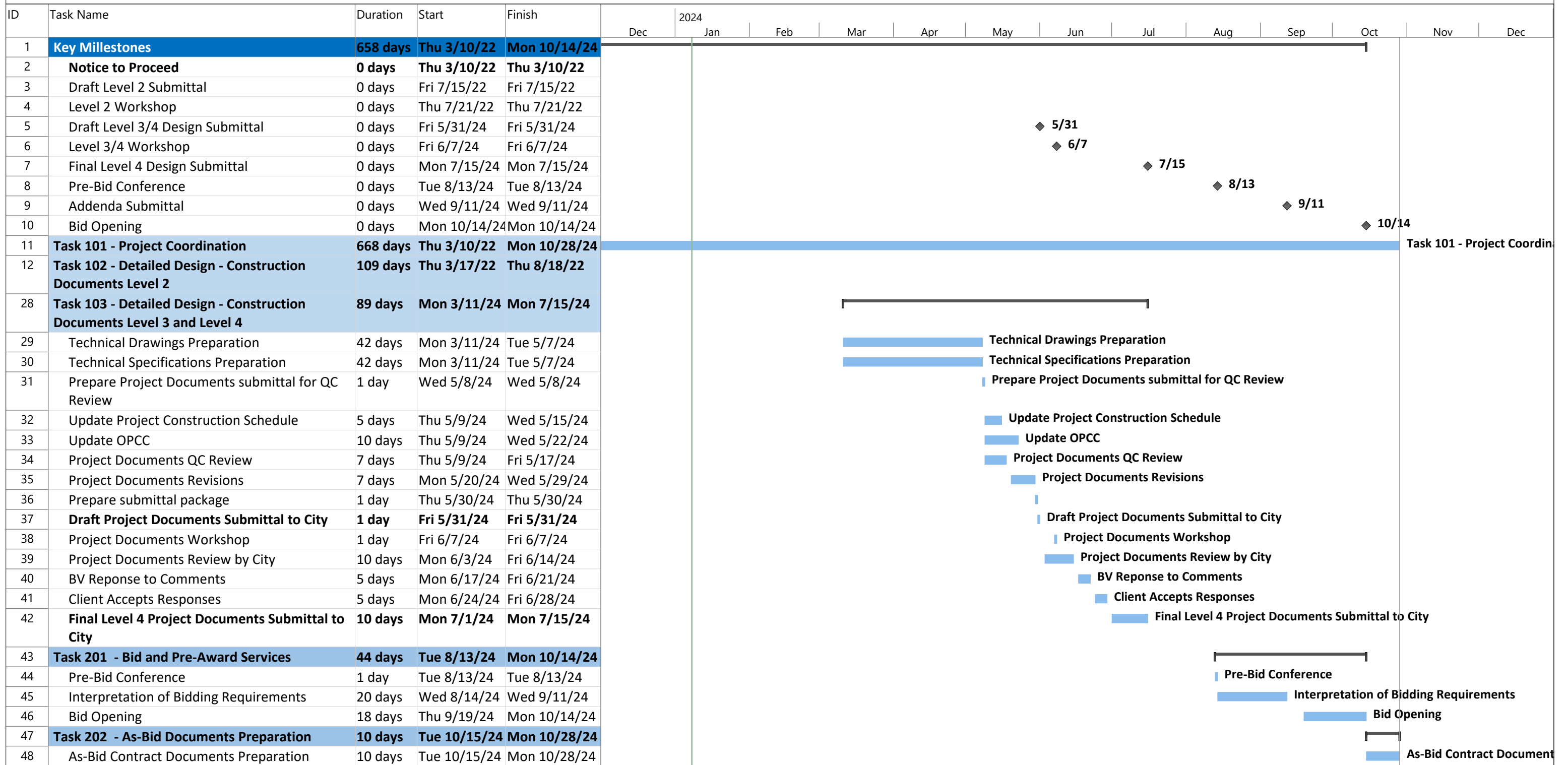
Respectfully submitted,

Isabel Botero, P.E.
Client Director
Black & Veatch

Attachment 1

Schedule

Task Order No.10 - Design Services
 Richard H. Heyman Environmental Protection Facility Dewatering System Upgrade
 City of Key West



Project: 411829 - City of Key West Date: Mon 1/8/24	Task		Project Summary		Manual Task		Start-only		Deadline	
	Split		Inactive Task		Duration-only		Finish-only		Progress	
	Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
	Summary		Inactive Summary		Manual Summary		External Milestone			

Attachment 2

Level of Effort

City of Key West
 Task Order No. 10 - Richard A. Heyman Environmental
 Protection Facility Dewatering System Upgrade
 Amendment No. 1

01/12/24

Work Breakdown Structure	Project Director	Senior Project Manager	Engineering Manager	Sr Technical Specialist - WW Process	Sr. Engineer - Structural	Sr. Engineer - Process Mechanical	Sr. Engineer - Chem Feed	Project Engineer - Electrical	Senior Engineering Technician - Electrical	Sr. Engineer - I&C	Engineering Technician - I&C	Engineering Technician - Struct and Process	Senior Engineer - Cost Estimating	Staff Engineer 11 - Civil	Total Hours	Labor Cost
Task Series 100 - DESIGN SERVICES	4	20	24	20	68	26	88	64	32	41	20	98	35	44	584	\$98,720
Percent of Total - Task 103	1%	3%	4%	3%	12%	4%	15%	11%	5%	7%	3%	17%	6%	8%	100%	
103 Detailed Design - Construction Documents Level 3 and Level 4	4	20	24	20	68	26	88	64	32	41	20	98	35	44	584	\$98,720
Percent of Total	1%	3%	4%	3%	12%	4%	15%	11%	5%	7%	3%	17%	6%	8%	100%	
Total Hours Estimated	4	20	24	20	68	26	88	64	32	41	20	98	35	44	584	
Total Salary (Labor B&V)	\$1,180	\$4,800	\$4,728	\$5,500	\$12,580	\$4,810	\$16,280	\$10,560	\$4,800	\$7,585	\$2,300	\$11,270	\$6,475	\$5,852		\$98,720
TOTAL FEE																\$98,720

NEGOTIATED RATES USED TO DEVELOP THIS FEE

\$295.00 \$240.00 \$197.00 \$275.00 \$185.00 \$185.00 \$185.00 \$165.00 \$150.00 \$185.00 \$115.00 \$115.00 \$185.00 \$133.00