AMENDMENT NO. 2 TO LAKE BERRYESSA RESORT IMPROVEMENT DISTRICT AGREEMENT NO. 240306B (LBRID) PROFESSIONAL SERVICES AGREEMENT

THIS AMENDMENT NO. 2 TO LAKE BERRYESSA RESORT IMPROVEMENT DISTRICT AGREEMENT NO. 240306B (LBRID) is made and entered into effective as of the 12th day of November 2024, by and between the LAKE BERRYESSA RESORT IMPROVEMENT DISTRICT, a special district of the State of California, hereinafter referred to as "DISTRICT," and GHD, Inc., a California corporation whose business address is 2235 Mercury Way, Suite 150, Santa Rosa, CA 95407, hereinafter referred to as "CONTRACTOR." DISTRICT and CONTRACTOR may be referred to below individually as "Party" and collectively as "Parties."

RECITALS

WHEREAS, on March 26, 2024, DISTRICT and CONTRACTOR entered into Agreement No. 240306B (Agreement) for specialized services related to CONTRACTOR's prior work initiated in 2017 when the Central Valley Regional Water Quality Control Board issued DISTRICT a Notice of Violation regarding insufficient wastewater system capacity during winter months; and

WHEREAS, DISTRICT anticipated CONTRACTOR performing additional services related to the wastewater ponds (Project) once financial assistance for the work was approved through the Clean Water State Revolving Fund (CWSRF) program, including updating and completing partial plans and specifications prepared by CONTRACTOR in 2018; and

WHEREAS, on July 2, 2024, DISTRICT received the fully executed CWSRF funding agreement; and

WHEREAS, on July 23, 2024, the Parties entered into Amendment No. 1 to the Agreement for CONTRACTOR to update and finalize the plans and specifications for the Project, addressing requirements of the funding agreement and minor reworking of certain design elements added to the Project during the extended funding application period; and

WHEREAS, the Project was advertised for construction bids on August 20, 2024 and bids were opened on October 10, 2024; and

WHEREAS, the DISTRICT requires construction management and inspection services to ensure the Project is constructed according to CONTRACTOR's design, and CONTRACTOR's familiarity with the Project makes them the most qualified to oversee construction activities, perform required field testing during construction, and ensure the Project is built per the construction drawings and specifications; and

WHEREAS, the Parties now wish to amend the Agreement to modify and increase the scope of CONTRACTOR's services, and increase the maximum compensation payable under the Agreement by \$126,499 to reflect such changes;

NOW, THEREFORE, for good and valuable consideration, the sufficiency of which is hereby acknowledged, the Parties hereby amend LBRID Agreement No. 240306B as follows:

TERMS

- 1. Paragraph 2 of the Agreement is amended to read in full as follows:
 - 2. **Scope of Services.** CONTRACTOR shall perform additional geotechnical design work to investigate existing subsurface conditions in and around the Ponds 1 3 earthen berms holding and biologically treating wastewater discharged into the community sewer collection system. A Geotechnical Report shall be the basis of design for upgrading the berms to comply with Central Valley Regional Water Quality Control Board facility guidelines, as further set forth in Exhibit "A" attached hereto and hereby incorporated by reference. CONTRACTOR shall also revise the construction drawings and specifications for the Project as further described in Exhibit "A-1" and its attachments, attached hereto and hereby incorporated by reference. CONTRACTOR shall also furnish full-time construction management and inspection services as further described in Exhibit "A-2" and its attachments, attached hereto and hereby incorporated by reference.
- 2. Paragraph 3 of the Agreement is amended to read in full as follows:

3. Compensation.

- (a) Rates. In consideration of CONTRACTOR's fulfillment of the promised work, DISTRICT shall pay CONTRACTOR at the rates set forth in Exhibit "B" attached hereto and hereby incorporated by reference. In consideration of Contractor's fulfillment of the scope of services in Exhibit "A-1," DISTRICT shall pay CONTRACTOR at the rates set forth in Attachment 2 to Exhibit "A-1." In consideration of Contractor's fulfillment of the scope of services in Exhibit "A-2," DISTRICT shall pay CONTRACTOR at the rates set forth in Attachment 2 to Exhibit "A-2."
 - (b) <u>Expenses.</u> No travel or other expenses will be reimbursed by DISTRICT.
- (c) <u>Maximum Amount.</u> Notwithstanding subparagraphs (a) and (b), the maximum payments under this Agreement shall not exceed a total of Three Hundred Twelve Thousand, Five Hundred Seventy Dollars (\$312,570) for professional services, including all transportation expenses and tax; provided, however, that such amount shall not be construed as a guaranteed sum, and compensation shall be based upon services actually rendered and reimbursable expenses actually incurred.
- 3. Exhibit "A-2" and its Attachments listed here are attached hereto and hereby incorporated by reference:
 - Attachment 1 to Exhibit "A-2": Proposal for LBRID Groundwater Inflow Mitigation Project Construction Management and Observation from GHD dated October 21, 2024.
 - Attachment 2 to Exhibit "A-2": Project Fee Estimating Sheet from GHD dated October 21, 2024.

Amendment No 2

Agreement No. 240306B

Page 2

PL Doc. No. 122141

- 4. This Amendment No. 2 represents all the changes to the Agreement agreed to by the Parties. No enforceable oral representations or other agreements have been made by the Parties except as specifically stated herein. All other provisions of the Agreement and prior amendments not addressed in this Amendment No. 2 shall remain in full force and effect.
- 5. This Amendment No. 2 may be executed in counterparts, which when taken together, shall constitute a single signed original as though all parties had executed the same page.

IN WITNESS WHEREOF, this Amendment No. 2 is executed by the Lake Berryessa Resort Improvement District, acting by and through the Chair of the Governing Board, and by the Contractor through its duly authorized officers.

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	GHD INC	
	ByDAVID LINDOW, Vice P	
	DAVID LINDOW, Vice P	resident
	By Oly Wil	
	ALEX CULICK, Vice Pre	sident
	LAKE BERRYESSA RESOR DISTRICT, a Special District	
	By:	
	JOELLE GALLAGHER, O	Chair of the Governing
	Board of Lake Berryessa R	Resort Improvement District
APPROVED AS TO FORM	APPROVED BY THE BOARD OF	ATTEST: NEHA HOSKINS
Office of County Counsel	SUPERVISORS, AS THE GOVERNING	Secretary of the District
	BOARD OF THE LAKE BERRYESSA RESORT IMPROVEMENT DISTRICT	
By:Thomas C. Zeleny	RESORT IVII ROVEIVILIVI DISTRICT	By:
Chief Deputy County Counsel	Date:	
D-4 0-4-1 20 2024	Processed By:	
Date: October 30, 2024 PL Doc. No. 122141		
E DOC. 110. 122171	Deputy Secretary of the District	

EXHIBIT "A-2"

SCOPE OF SERVICES AND COMPENSATION

I. SCOPE OF SERVICES

CONTRACTOR shall provide construction management and observation during construction of the LBRID Groundwater Inflow Mitigation Project (also known as the LBRID WWTP Vertical Trench Drain, Inlet Piping Replacement, Surface Drainage Improvements and Dike Reconstruction Design Project). For itemization of the scope of services, refer to GHD, Inc. proposal dated October 21, 2024, attached hereto and incorporated by reference as Attachment 1 to this Exhibit. The services covered under this amendment are professional services and will be performed under the responsible charge of a Registered Engineer in the State of California.

II. COMPENSATION

For the scope of services described in this Exhibit, CONTRACTOR shall be compensated on a time and materials basis at the rates set forth in CONTRACTOR's Project Fee Estimating Sheet dated October 21, 2024, attached hereto and incorporated by reference as Attachment 2 to this Exhibit.

Amendment No 2 Page 4
Agreement No. 240306B PL Doc. No. 122141

2235 Mercury Way, Suite 150 Santa Rosa, California 95407 United States www.ghd.com



Our ref: 11183685

October 21, 2024

Christopher Silke, PE
Engineering Manager – Water Resources
County of Napa
Flood Control and Water Conservation District
804 First Street
Napa, CA 94559

Proposal for LBRID Groundwater Inflow Mitigation Project Construction Management and Observation

Dear Mr. Silke:

Per your request and based on our recent discussions, GHD is pleased to present this proposal to provide construction management and observation for the Groundwater Inflow Mitigation Project. GHD proposes the following tasks:

Task 1 Project Management

Task 1.1 – Provide Management of GHD Services

GHD project management will include project set up, preparation and maintenance of budgets and schedules for GHD services, instructions to the GHD Team and preparation of field safety instructions.

Task 2 Contract Management

GHD's Construction Management Team (CMT) will act as an extension / adjunct of LBRID staff. The CMT will coordinate with LBRID to discuss project details, review schedules, provide drafts for review and produce final documentation ready for LBRID signature. The CMT will provide periodic updates, coordinate meetings and telephone calls, promptly transcribe meeting notes, and distribute meeting notes through Procore.

The CMT will perform the following services:

Task 2.1 – Provide Project Coordination

Coordinate with LBRID staff to discuss and address issues with the project. Coordinate with the contractor and on GHD's site observation and materials testing sub as needed throughout project construction.

Task 2.2 – Prepare and Conduct Pre-Construction Meeting

The pre-construction meeting will include LBRID, the Design Engineer, contractor, and any subcontractors. The CM will prepare the agenda and meeting minutes. Prior to the Pre-Construction Meeting, the CM will prepare a draft contact list including GHD staff, LBRID staff, contractor and others as appropriate. Contact information will be identified for key personnel from each agency to be contacted in the event of an emergency. The list will be updated, finalized and distributed to all participants after the meeting.

Task 2.3 - Conduct and Document Project Meetings

Conduct weekly progress meetings and other special technical meetings throughout the project as needed. The CM will prepare the agenda, describing key issues, schedule status, and potential change orders, and distribute notes to meeting participants through Procore.

Task 2.4 – Review Contractors Construction Schedule

Review the Contractor's project schedule for conformance with the specifications and for reasonableness of activity durations and sequence. The CM will perform the following activities:

- Coordinate review comments by LBRID and Design Engineer and transmit review comments to the contractor.
- Meet with the contractor to discuss and clarify any significant issues. Review revised schedules. Review work progress as compared to the as-planned schedule and notify contractor of schedule slippage.
- Review schedule to determine impact of the weather and change orders on the construction schedule.
 Review contractor's updates of the construction schedule that incorporates actual progress, weather delays, and change order impacts.

Task 2.5 - Maintain Project Records

Maintain project records, including daily logs, weekly report of working days, inspection reports, compliance testing results, photos, measurement of quantities, schedules, submittals, RFIs, RFCs, PCOs, change orders, monthly pay requests, issues, and correspondence. Project records will be maintained in an organized manner for quick reference utilizing Pro Core.

Task 2.6 - Review and Evaluate Monthly Progress Payments

Review and evaluate monthly progress payment requests submitted by the Contractor, negotiate differences over payment, and recommend payment to LBRID. Quantity vouchers will be checked and signed independently by the CM to monitor quantities paid against estimated quantities.

Task 2.7 – Respond to Requests for Information (RFIs) and Issue Requests for Clarifications (RFCs)

Coordinate, evaluate, and manage the process of responding to RFIs and issuing RFCs. This effort includes receiving the RFI from the Contractor or transmitting the RFC to the Contractor, logging into the system, transmitting them to the Design Engineer for response, coordinating with the Design Engineer on field status, tracking progress, reviewing responses, and transmitting responses to the Contractor.

Task 2.8 - Prepare Potential Change Orders (PCOs) and Change Orders

Coordinate and manage the change order process, including logging, reviewing them in conjunction with Design Engineer and LBRID, assisting with determination of changed conditions and scope definition as needed, developing independent cost estimates, assisting with negotiation, and incorporating change orders into the construction contract.

Task 2.9 - Coordinate Submittal and Shop Drawing Review Process

Coordinate the submittal and shop drawing review process, including logging submittals from the Contractor, transmitting to Design Engineer for response, coordinating with Design Engineer on field status, tracking progress, reviewing responses, and transmitting responses to the Contractor. Incomplete submittals will be returned to the contractor prior to being submitted to the Design Engineer.

Construction Manager and inspectors will also review submittals of shop drawings, materials, test reports, and manufacturer cut-sheets to understand installation requirements and identify potential issues.

Task 2.10 - Perform Claims Management

Analyse potential claims for additional compensation submitted during the construction period and make recommendations to LBRID for resolution. Coordinate and monitor claims response preparation, logging and tracking status. The Construction Manager will monitor and assist in mitigating any potential project claim, support in defending any construction claims will be negotiated as an extra service.

Task 3 Construction Observation/Materials Testing

GHD will provide on site construction observation and will perform the following services:

Task 3.1 - Provide Field Inspection / Observation

GHD will provide an on-site construction inspector / observer to monitor the contractor's work for compliance with the contract documents, submittals, RFIs and change orders. Per LBRID request, Crawford will provide on site construction observation full time for excavation and installation of the drain for an estimated three week period. In addition, GHD will provide an on-site construction inspector as needed and an estimated one day per week when the contractor is on site and will overlap during the day as necessary to coordinate with the design team and LBRID staff. Daily effort is assumed to be 8 hours per day for a typical full day including travel time to the site. The project schedule is based on 120 working days over 24 Weeks it is assumed that there will be 24 weeks of required construction observation over the life of the project construction with a budgeted 24 site visits. The estimated 24 site visits will be made as required and generally for inspection of the bypass and tie in to the gravity system.

The Inspector/Observer will prepare daily observation reports. Reports will include: employee names and labor classification, equipment identification, hours that were work and equipment utilized, weather conditions, and issues, observations, and significant conversations between the inspector and the contractor and public. The daily reports will have photographs and material tags as applicable and necessary.

Task 3.2- Prepare Photograph or Video Documentation

Document initial site conditions prior to contractor's commencement of construction using either still photographs or video and will provide additional photos of construction progress periodically throughout construction.

Task 3.3 - Materials Testing/Coordinate Materials Testing

Coordinate with Crawford & Associates who will be performing quality assurance testing in accordance with the contract documents. Crawford & Associates proposed services for on site observation and materials testing are included with this proposal.

Task 3.4 - Develop Punch List

Develop a preliminary punch list for the project and maintain a running punch list through the course of the project. The CMT will schedule LBRID and Design Engineer to conduct final completion inspections and issue final punch lists.

Task 3.5 - Compile Final Records

Provide LBRID with a complete set of project records of the project, indexed and filed, and a listing of warranties provided under the project including the items covered and the warranty duration. The documentation will be all in electronic format.

Task 3.6 - Prepare Final Pay Estimates

Prepare the final pay estimate and balancing change orders, prepare the Notice of Completion if required, and coordinate retention release at the conclusion of construction.

Assumptions:

The scope of work is based on the following assumptions:

- Means and Methods. The Contractor is responsible for the means and methods on the project.
- Control of Contractor's Work. The Construction Management Team (CMT) does not supervise and direct the Work of the Contractor. The Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences, and procedures and for coordinating all portions of the Work under the Contract, unless Contract Documents give other specific instructions concerning these matters.

- 3. **Site Safety**. The Contractor shall be solely responsible for site safety.
- 4. Compliance with Contract Requirements. The Contractor shall not be relieved of obligations to perform the Work in accordance with the Contract Documents either by activities or duties of the CMT in the CMT's administration of the Contract, or by tests, inspections, or approvals required or performed by persons other than the Contractor.
- 5. It is assumed Crawford & Associates will be contracted during construction to provide the necessary site visits, testing and monitoring as recommended in the project geotechnical report. We have included Crawford & Associates proposal with this proposal.
- 6. No additional work will be required other than that referenced in this proposal.

Fee

GHD can provide the above-described scope of services for an estimated time and materials fee of \$126,499. We look forward to working with you on this project. If you have any questions, please feel free to contact me at (707) 599-6936.

Regards

Alex Culick
Managing Principal
+1 707 599-6936
alex.culick@ghd.com

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	PROJECT NAME:	LBRI	D GW Infl	ow Mitig	ation	Project	_		PROJECT#		11183685	-		On-Site Inspector Cy Penry	у
	PREPARED BY:	AJC							Date CLIENT:	LB	10/21/2024 RID	-		Project Director/CM Alex Cul	ick
									FEE C	OMF	PUTATION	ı		Final Opinion of Probable (
														\$	650,000
	PR CATEGORY> RATE>	Ma \$	Const anager \$340	Proj C \$13	0	Inspector \$225	НО	URS/	Subconsultan Services	oth \$6	.5/hr office	TOT FEE		120 Working Days 4 month Construction period Sub M/U	
TASK Task 1	Project Management	/	HR	/HF	Κ	/HR	GH	ID fee		\$1	1.5/hr field			24 week Inspection period	15%
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	Task 1.0 Preconstruction Assistance Project Initiation	\$	8 2,720	\$	2 260	\$	- \$	10 2,980		\$	65	\$	3,045		
	Sub-Total		8		2			10							
Task 2	Contract Management	\$	2,720	\$	260	\$ -	\$	2,980	\$ -	\$	65	\$	3,045		
	Task 2.1	T	24					24						24 weekly	
	Provide Project Coordination	\$	5,400		-	\$	- \$	5,400		\$	156	\$	5,556	1 hrs CM	
	Task 2.2 Meeting	\$	4 1,360	\$	1 130	\$ 450	2 \$	7 1,940		\$	46	\$	1,986		
	Task 2.3	<u> </u>	32	•	100		σ ψ	32		Ψ		Ψ		24 weekly contractor & other meetings, P	Prep, Minutes
	Conduct and Document Project Meetings Task 2.4	\$	10,880	\$	-	\$	- \$	10,880		\$	208	\$	11,088	2 monthly update	
	Review Contractors Construction Schedule	\$	680	\$	-	\$	- \$	680		\$	13	\$	693	1 hrs each CM	
	Task 2.5 Maintain Project Records	¢.		6	4	¢	6	4 520		6	26	¢.	EAG	24 weekly hrs PC	
	Task 2.6	\$	4	\$	520	\$	- \$	520 4		\$	26	\$	546	4 pay requests, including final	
	Payments Task 2.7	\$	1,360	\$	-	\$	- \$	1,360		\$	26	\$	1,386	1 hrs each	
	Respond to RFI's	\$	2,720	\$	_	\$	- \$	8 2,720		\$	52	\$	2,772	16 Assumed Number of RFI's/RFC's 0.5 hrs CM	
	Task 2.8	<u> </u>	2					2						2 Assumed Number of PCO's	
	Prepare PCO's and Change Orders Task 2.9	\$	680 8	\$	-	\$	- \$	680 8		\$	13	\$	693	1 hrs each CM 6 Assumed Number of shop drawings/s	ubmittals
	Review	\$	2,720	\$	-	\$	- \$	2,720		\$	52	\$	2,772	hrs CM Hr PC	
	Task 2.10 Perform Claims Management	\$	_	\$	_	\$ 90	4 \$	4 900		\$	26	\$	926	Assumes no formal claims. Time is for meetings communication to resolve field issues	s &
	Sub-Total	Ψ	84	,	5	•	6	95		Ψ	20	Ψ		Communication to resolve field issues	
Task 3:	Field Inspection/Observation	\$	25,800	\$	650	\$ 1,35	3 \$	27,800	\$ -	\$	618	\$	28,418		
iask 3:	Task 3.1	1				19	12	192		1				8.0 avg hrs per day inspection	
	Rpts	\$	-	\$	-	\$ 43,20		43,200		\$	2,208	\$	45,408	21 Site Visits(1/week for 24 weeks)	
	Task 3.2 Documentation	\$		\$		\$ 90	4 0 \$	4 900		¢	16	¢	946	Prior to Pre-construction and at Comp	letion
	Task 3.3	φ		φ		φ 90°	J	900		\$	46	\$	940	Material testing/Full Time while excav	ating drain
	Inspection/Compaction Testing Task 3.4	\$	-	\$	-	\$	- \$	-	\$35,135	\$	5,270	\$	40,405	Coord time included in Task 3.1	
	Develop Punchlists/review	\$	2 680		_	\$ 90	5 \$	6 1,580		\$	69	\$	1,649		
	Task 3.5		4				4	8						Record Drawings, warranty items	
	Compile Final Documents/Close-out Task 3.6	\$	1,360 2	\$	-	\$ 90	0 \$ 2	2,260 4		\$	92	\$	2,352	Documentation ready for audit Final pay request, coordinate retention	n release
	Prepare Final Pay Estimate	\$	680	\$	-	\$ 450		1,130		\$	46	\$	1,176	Notice of Completion	
	Sub-Total	\$	8 2,720	\$	_	\$ 46,350		214 49,070	\$ 35,135	2.	7,731	\$	91,936	91936 check	
Project Ve	hicle, Travel & Misc Expenses	ļΨ	2,720	Ψ		Ψ 40,000	υ Ψ	40,070	Ψ 00,100	Ψ					
Project '	Totals	1	100		7	21	2	319			\$3,100	\$	3,100	\$ 100 estimated wkly travel expenses insp & CM	
. Toject		\$	31,240		910			79,850		\$	8,414	\$	126,499		

SHT#

1 of 1

PROJECT FEE ESTIMATING SHEET



October 18, 2024

Alex Culick Federal Program Manager GHD 2235 Mercury Way, Suite 150 Santa Rosa, CA 95407 Email: alex.culick@ghd.com

Subject: Construction Materials Testing and Inspection Services

LBRID Groundwater Mitigation Project Pope Valley, California

Crawford and Associates, Inc (Crawford) Crawford is pleased to submit this proposal to provide construction materials testing services for LBRID Groundwater Mitigation Project.

The purpose of our services will be to provide GHD with field data and information in order to assess compliance with the project plans and specifications. We welcome the opportunity to be part of the Project Team. The following proposal presents: our understanding of the project, the scope of services we anticipate providing and an estimate of our fees.

PROJECT UNDERSTANDING

We understand that the project will consist of the installation of a new underground perforated drain into existing bedrock to manage groundwater flows.

Our understanding of the project is based on our experience with similar projects and a cursory review of the project documents.

SCOPE OF SERVICES

Crawford will perform the following services:

- Earthwork Observation and Testing: Crawford & Associates will provide an engineering technician on a period bases to perform materials sampling and testing, including density testing to evaluate conformance with the project plans, specifications, and recommendations of the geotechnical report. These services will be performed during excavation of drainage trenches into bedrock and density on trench backfill at road crossings.
- **Engineering During Construction:** Crawford & Associates will provide geotechnical engineering consultation during the excavation of the test potholes for verification of depth of bedrock and to provide construction recommendations as needed.
- Construction Materials Laboratory Testing: Laboratory testing of construction materials in conjunction with the above-described field inspections and testing will be conducted in accordance with the project plans, specifications, and jurisdictional requirements to evaluate the materials are in compliance with the project requirements.

DELIVERABLES







- Daily Field Reports reviewed by a Crawford project manager.
- Final Summary Letter if required.

Crawford will provide all necessary personnel, subconsultants, equipment, and time to complete the project as requested by GHD.

ASSUMPTIONS

During the preparation of this proposal, Crawford & Associates have made the following assumptions:

- This project will be subject to California Prevailing Wage Law
- We assume the project schedule will be based on an 8-hour workday, five days a week, Monday through Friday including travel time. Weekends, swing shifts and night shifts are not anticipated.
- The anticipated work will be conducted during typical construction hours of 6:00am to 4:00pm.

FEES

Based on our construction experience and the project size, visits for testing and observation will likely be a full day including travel time portal to portal. The costs are based on our experience with similar projects. Actual costs will depend on the actual construction schedule, process, and number of tests required. Based on our experience, our fee could be as much as 35% lower or higher than our estimate due to the contractor's actual scheduling, size of grading crews, construction delays, expanded scope and other items not known at this time.

We will only invoice you for the time required to complete the project. We will notify you in a timely manner if we expect to exceed the estimated fee due to contractor's schedule or required retesting. All laboratory testing will be per Caltrans procedures.

Over-time rates (rate x 1.5) may apply for site visits requested before 7:00 a.m. or after 4:00 p.m.; site visits requested with less than 24-hours' notice; and same-day schedule changes. Site visits on Sundays or holidays will be billed at the straight-time hourly rate times two.

Crawford will perform the construction observation and materials testing services in accordance with the attached rate schedule.

Sincerely,

Robert Hill
Director of Construction Services – Materials Testing



roject Name: LBRID Groundwater Inflow Mitigation

24-1268.P Project No:

County/City:

2446 Stagecoach Canyon Road, Pope Valley, Ca Construction Management and Engineering Testing Services

	Crawford Associates, Inc. Geotechnical Engineering, Design and Construction Services & Associates, Inc. Tasks and Descriptions	Principal *	Senior Project Manager *	Project Manager	Senior Engineer / Geologist	Project Engineer II / Geologist	Project Engineer I / Geologist	Staff Engineer / Geologist	Drafter	Project Coordinator	Administrative Assistant	Special Inspector	Senior Technician	Staff Technidan	Special Inspector I (Masonry) **	Special Inspector II (Welding) **	Laborer Technician **	Soils/Asphalt Technician **	Concrete Technician **	PER TASK	COST PER TASK		IRECT COSTS	OST PER TASK
	Crawford Staff	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	JRS	30R C		ĒRD	AL C
	Hourly Rate	\$ 260.00	\$ 240.00	\$ 200.00	\$ 170.00	\$ 150.00	\$ 140.00	\$ 135.00	\$ 120.00	\$ 127.00	\$ 110.00	\$ 160.00	\$ 135.00	\$ 125.00	\$ 190.00	\$ 185.00	\$ 137.00	\$ 175.00	\$ 165.00	호	Š		Ė	5
TASK NO. 1						•		•													•			
	Project Management / Coordination	2.00	6.00							4.00										12.00	\$ 2,468	.00 \$	99.00	\$ 2,567.00
	Task 1 - Hours	2.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00	\$ 2,468	.00 \$	99.00	\$ 2,567.00
TASK NO. 2																								
	Construction Observation and Testing	8.00			60.00													100.00		168.00	\$ 29,780	.00 \$	2,788.00	\$ 32,568.00
	Task 2 - Hours	8.00	0.00	0.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	168.00	\$ 29,780	.00 \$	2,788.00	\$ 32,568.00
	Subtotal- Hours/Tasks	10.00	6.00	0.00	60.00	0.00	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	180.00			·	
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Overtime and Grav	eyard Charges May Apply																				TO	TAL LA	BOR COST:	\$ 32,248.00
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(*) Indicates Key Staff

(**) Indicates Prevailing Wage Classifications

TOTAL LABOR COST:	32,248.00
OTHER DIRECT COSTS:	\$ 2,887.00
TOTAL ESTIMATED FEE:	\$ 35,135.00

10/18/2024

Task 1 Project Management / Coordination

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DESCRIPTION	QUANTITY	UNIT	UNIT COST	MULT	TOTAL
Mileage	100	Mile	\$ 0.74	1	\$ 74.00
Vehicle Charge	1	Day	\$ 25.00	1	\$ 25.00
			\$ -	1	\$ -
			\$ -	1	\$ -
			\$ -	1	\$ -

Task 1 ODC Total: \$ 99.00

Task 2 Construction Observation and Testing

DESCRIPTION	QUANTITY	UNIT	U	NIT COST	MULT		TOTAL
Mileage	2200	Mile	\$	0.74	1	\$	1,628.00
Vehicle Charge	22	Day	\$	25.00	1	\$	550.00
Nuclear Density Tests	10	Each	\$	10.00	1	\$	100.00
6" Mold Compaction Curve	1	Each	\$	510.00	1	\$	510.00
						\$	-
						\$	-
	•	•		•		Task 2	ODC Total:

2,788.00

TOTAL OTHER DIRECT COSTS \$ 2,887.00



	2024
PROFESSIONAL TITLE	RATE
Principal	\$ 260.00
Senior Project Manager	\$ 240.00
Project Manager	\$ 200.00
Senior Engineer / Geologist	\$ 170.00
Project Engineer II / Geologist	\$ 150.00
Project Engineer I / Geologist	\$ 140.00
Project Engineer I / Geologist - OT	\$ 210.00
Staff Engineer / Geologist	\$ 135.00
Staff Engineer / Geologist - OT	\$ 202.50
Drafter	\$ 120.00
Project Coordinator	\$ 127.00
Administrative Assistant	\$ 110.00
Special Inspector	\$ 160.00
Senior Technician	\$ 135.00
Senior Technician - OT	\$ 190.00
Staff Technician	\$ 125.00
Staff Technician - OT	\$ 175.00
PREVAILING WAGE CLASSIFICATIONS **	RATE
Group 1 - Masonry Technician	\$ 190.00
Group 1 - Masonry Technician - OT	\$ 220.00
Group 2 - Welding Technician	\$ 185.00
Group 2 - Welding Technician - OT	\$ 215.00
Group 2/3 - Laborer Technician	\$ 137.00
Group 2/3 - Laborer Technician - OT	\$ 160.00
Group 3 - Soils/Asphalt Technician	\$ 175.00
Group 3 - Soils/Asphalt Technician - OT	\$ 200.00
Group 4 - Concrete Technician	\$ 165.00
Group 4 - Concrete Technician - OT	\$ 185.00
WORKING HOURS AND PREMIUM TIME	RATE
A Regular Workday is the first 8 hours between Monday through Friday.	n 6:00am to 6:00pm,
Overtime: Weekdays & Saturdays (first 8 hour	1.5 x Hourly Rate
Overtime: Saturdays (over 8 hours) and Sundays (first 8 hours)	2 x Hourly Rate
Overtime: Sundays (over 8 hours) and Holiday	3 x Hourly Rate
Night Shift: Work performed between 2:00 am and 4:00 am	1
REIMBURSABLES	RATE
Mileage	\$ 0.74 / Mile
Vehicle Charge	\$ 25.00 / Day
•	•
Outside Costs Permit Foos (City/County)	15% Markup
Permit Fees (City/County) Per Diam (Lodging & Mools)	15% Markup
Per Diem (Lodging & Meals)	\$ 350 / Day
Rush Testing ** Indicates Prevailing Wage Classifications/We	50% Markup

NDARD FEE SCHEDULE		DATE	DETAIL
CONSTRUCTION/EQUIPMENT	_	RATE	DETAIL
Traffic Control - Major (Non-DBE, Prevailing Wage) *	\$	2,500.00	DAY
Traffic Control - Major (Non-DBE, Prevailing Wage) *	\$	1,500.00	HALF DAY
Traffic Control - Major (Non-DBE, Non-Prevailing Wa	—	1,700.00	DAY
Traffic Control - Major (Non-DBE, Non-Prevailing Wa	\$	1,020.00	HALF DAY
Traffic Control Sign Board	\$	650.00	DAY
Traffic Control Equipment (Shoulder signs, cones, etc.	\$	200.00	DAY
Seismic Refraction (12 Channel)	\$	1,300.00	DAY
Core Machine with Generator **	\$	2,600.00	DAY
Core Machine Bit	\$	3.00	INCH
Core Box	\$	17.25	EACH
Hot Mix Asphalt Patching (1st Core) **	\$	1,000.00	FIRST
Hot Mix Asphalt Patching (2 or More) **	\$	500.00	EACH AFTER
Wildcat DCP Equipment **	\$	750.00	DAY
Wildcat DCP Tip	\$	20.00	EACH
Survey Equipment (Tripod, Level, Rod)	\$	150.00	DAY
Survey Equipment (Liquid Level)	\$	150.00	DAY
Infiltration / Percolation Testing Equipment	\$	200.00	DAY
Hand Auger **	\$	200.00	DAY
Backfill	\$	8.00	BAG
Steel Liners (MCAL)	\$	10.00	EACH
Nuclear Density Test **	\$	10.00	EACH
·	_		CT539/ASTMC172, CT556/ASTMC14
Concrete Equipment	\$	65.00	CT540/ASTMC31, CT551/ASTMC106
CLASSIFICATION TESTING			
#200 Wash	\$	120.00	ASTM D1140
Grain Size Analysis to #200 (Sieve Analysis)	\$	160.00	ASTM D6913
Mass Grain Size (Scour)	\$	2,200.00	ASTM D6913
Grain Size with Hydrometer	\$	245.00	ASTM D6913, D7928
Grain Size Analysis	\$	210.00	CT 202
Hydrometer Analysis	\$	210.00	ASTM D7928
Moisture & Density	\$	80.00	ASTM D2216, D7263
Moisture Content	\$	55.00	ASTM D2216, CT 226
Non-Plastic Index Result	\$	125.00	ASTM D4318
Plasticity Index	\$	260.00	ASTM D4318
Landscape Suitability	\$	125.00	
STRENGTH TESTING			
California Impact	\$	350.00	CT 216
Compaction Curve (4" Mold)	\$	455.00	ASTM D698/D1557
Compaction Curve (6" Mold)	\$	510.00	ASTM D698/D1557
Compaction Curve Checkpoint (4" Mold)	\$	125.00	ASTM D698/D1557
Compaction Curve Checkpoint (6" Mold)	\$	125.00	ASTM D698/D1557
Compression (Rock)	\$	275.00	ASTM 7012
Compressive Strength of Cylinders (6x12)	\$	40.00	CT 39, CT 521
Compressive Strength of Cylinders (4x8)	\$	37.00	CT 39, CT 521
Direct Shear (CD 3pt) Peak Only	\$	500.00	
, , , ,	_		ASTM D3080
Point Load (Rock)	\$	65.00	ASTM D5731
R-Value	\$	450.00	ASTM D2844, CAL 301
Triaxial Shear-UU	\$	175.00	ASTM D2850
Triaxial Staged-UU	\$	290.00	ASTM D2850
Unconfined Compression (Rock)	\$	230.00	ASTM D7012
Unconfined Compression (Soil)	\$	180.00	ASTM D2166
CONSOLIDATION & EXPANSION			
1-D Consolidation	\$	400.00	ASTM D2435
1-D Consolidation (Time Rate) / Per Point	\$	100.00	ASTM D2435
Expansion Index	\$	275.00	ASTM D4829
CORROSIVITY TESTING			
pH, Resistivity, Sulfate, Chloride Content	\$	240.00	CT 417,422,643
	\$	350.00	CT 417,422,643, ASTM G2
pH, Resistivity, Sulfate, Chloride, Redox Potential			
pH, Resistivity, Sulfate, Chloride, Redox Potential PAVEMENT TESTING		460.00	CT 382
PAVEMENT TESTING	\$		
PAVEMENT TESTING Asphalt Ignition Calibration	Ė		CT 382
PAVEMENT TESTING Asphalt Ignition Calibration Percent Asphalt Ignition Oven	\$	225.00	CT 382 CT 217
PAVEMENT TESTING Asphalt Ignition Calibration Percent Asphalt Ignition Oven Sand Equivalent	\$	225.00 135.00	CT 217
PAVEMENT TESTING Asphalt Ignition Calibration Percent Asphalt Ignition Oven Sand Equivalent Stabilometer Value	\$ \$ \$	225.00 135.00 225.00	CT 217 CT 366
PAVEMENT TESTING Asphalt Ignition Calibration Percent Asphalt Ignition Oven Sand Equivalent	\$	225.00 135.00	CT 217