

**AMENDMENT NO. 3 TO LAKE BERRYESSA RESORT
IMPROVEMENT DISTRICT AGREEMENT NO. 240306B (LBRID)
PROFESSIONAL SERVICES AGREEMENT**

THIS AMENDMENT NO. 3 TO LAKE BERRYESSA RESORT IMPROVEMENT DISTRICT AGREEMENT NO. 240306B (LBRID) is made and entered into effective as of the 24th day of March, 2026, 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 complete the Plans and Specifications, splitting the project scope into two phases with Phase I scheduled for construction over winter/spring 2025 followed by bid and construction of Phase II in winter/spring 2026; and

WHEREAS, on November 12, 2024, DISTRICT’s Governing Board (Board) approved the construction contract for Phase I of the Project and Amendment No. 2 to the Agreement for CONTRACTOR to perform construction management and inspection services for Phase I of the Project; and

WHEREAS, the design drawings and specifications for Phase II of the Project were approved by the Board on August 5, 2025, and advertised for bids on November 10, 2025; and

WHEREAS, construction bids for Phase II of the Project were opened on January 22, 2026 and DISTRICT intends to award a contract for construction of the Project; and

WHEREAS, the DISTRICT requires construction management and inspection services to ensure Phase II 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 \$129,079 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 for construction of Phase I as further described in Exhibit "A-2" and its attachments, attached hereto and hereby incorporated by reference. CONTRACTOR shall also furnish additional construction inspection services for construction of Phase II as further described in Exhibit "A-3" 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." In consideration of Contractor's fulfillment of the scope of services in Exhibit "A-3," DISTRICT shall pay CONTRACTOR at the rates set forth in Attachment 2 to Exhibit "A-3."

(b) Expenses. No travel or other expenses will be reimbursed by DISTRICT.

(c) Maximum Amount. Notwithstanding subparagraphs (a) and (b), the maximum payments under this Agreement shall not exceed a total of Four Hundred Forty-One Thousand, Six Hundred Forty-Nine Dollars (\$441,649) 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-3” and its Attachments listed here are attached hereto and hereby incorporated by reference:

- Attachment 1 to Exhibit “A-3”: Proposal for LBRID Wastewater Ponds Rehabilitation Project Construction Management and Observation from GHD dated March 6, 2026.
- Attachment 2 to Exhibit “A-3”: Project Fee Estimating Sheet from GHD, including inspection fees for geotechnical subcontractor, dated January 6, 2026.

4. This Amendment No. 3 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. 3 shall remain in full force and effect.

5. This Amendment No. 3 may be executed in counterparts, which when taken together, shall constitute a single signed original as though all parties had executed the same page.

[remainder of page intentionally blank]

IN WITNESS WHEREOF, this Amendment No. 3 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.

GHD, INC.

By  18 Mar 2026
MATT WINKELMAN, Vice President

By 
ALEX CULICK, Vice President

LAKE BERRYESSA RESORT IMPROVEMENT DISTRICT, a Special District of the State of California

By: _____
AMBER MANFREE, Chair of the Governing Board of Lake Berryessa Resort Improvement District

<p>APPROVED AS TO FORM Office of County Counsel</p> <p>By: <u>Thomas C. Zeleny</u> Chief Deputy County Counsel</p> <p>Date: <u>March 17, 2026</u> FV 13112403</p>	<p>APPROVED BY THE BOARD OF SUPERVISORS, AS THE GOVERNING BOARD OF THE LAKE BERRYESSA RESORT IMPROVEMENT DISTRICT</p> <p>Date: _____</p> <p>Processed By: _____</p> <p>Deputy Secretary of the District</p>	<p>ATTEST: NEHA HOSKINS Secretary of the District</p> <p>By: _____</p>
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EXHIBIT “A-3”

SCOPE OF SERVICES AND COMPENSATION

I. SCOPE OF SERVICES

CONTRACTOR shall provide construction management and observation during construction of Phase II of the LBRID Groundwater Inflow Mitigation Project (also known as the LBRID Wastewater Ponds Rehabilitation Project). For itemization of the scope of services, refer to GHD, Inc. proposal dated March 6, 2026, 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 January 6, 2026, attached hereto and incorporated by reference as Attachment 2 to this Exhibit.



Our ref: 11183685

March 06, 2026

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 Wastewater Ponds Rehabilitation 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 LBRID Wastewater Ponds Rehabilitation 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 throughout the construction period of the project.

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, GHD, GHD's onsite observation and testing team (Crawford) contractor, and any subcontractors. GHD's Construction Manager (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 utilize a subcontractor (Crawford) to provide an on-site construction inspector / observer to monitor the contractor's work for compliance with the contract documents including soils testing. GHD's CM will provide review of submittals, RFIs and change orders. Per LBRID request, Crawford will provide on site construction observation full time for excavation and installation of the incoming sewer main and construction of the wastewater ponds drain for an estimated **six week period of construction**. In addition, GHD's CM will visit the-site construction an estimated one day per week when the contractor is on site and will overlap during the day as necessary to coordinate with LBRID staff. On site Observation and materials testing 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. Based on the scope of the project it is assumed that there will be 6 weeks of required construction observation over the life of the project construction. An estimated 30 site visits will be made as required and generally for inspection of the pond earthwork, tie in to the gravity system and installation of piping, manholes and appurtenances.**

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. The daily reports will have photographs and material tags as applicable and necessary.

Task 3.2 – 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 3.3 – 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 3.4 – 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 3.5 – Prepare Final Pay Estimates

Prepare the final pay estimate, balancing change orders, and coordinate retention release at the conclusion of construction.

Assumptions:

The scope of work is based on the following assumptions:

1. **Means and Methods.** The Contractor is responsible for the means and methods on the project.
2. **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. 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 \$129,079. 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

PROJECT FEE ESTIMATING SHEET

ATTACHMENT 2

SHT # 1 of 1

PROJECT NAME: LBRID GW Inflow Mitigation Project

PROJECT # 11183685

On-Site Inspector Crawford

PREPARED BY: AJC

Date 1/6/2026

CLIENT: LBRID

Project Director/CM Alex Culick

Final Opinion of Probable Construction Cost
\$ 850,000

LABOR CATEGORY> TASK	RATE>					FEE COMPUTATION			120 Working Days 4 month Construction period 6 week Inspection period	Sub M/U: 15%
		Const Manager \$350 /HR	Proj Coord \$130 /HR	Engineering Support \$225 /HR	TOTAL HOURS/ GHD fee	Subconsultant Services	Subconsultant MU & Other Direct Costs* \$6.5/hr office \$11.5/hr field	TOTAL FEE		
Task 1 Project Management										
Task 1.0 Preconstruction Assistance Project Initiation		8 \$ 2,800	2 \$ 260	- \$ -	10 \$ 3,060		65 \$ 65	3,125 \$ 3,125		
Sub-Total		8 \$ 2,800	2 \$ 260	- \$ -	10 \$ 3,060		65 \$ 65	3,125 \$ 3,125		
Task 2 Contract Management										
Task 2.1 Provide Project Coordination		16 \$ 3,600	- \$ -	- \$ -	16 \$ 3,600		104 \$ 104	3,704 \$ 3,704	16 weekly 1 hrs CM	
Task 2.2 Prepare and Conduct Preconstruction Meeting		4 \$ 1,400	- \$ -	- \$ -	4 \$ 1,400		26 \$ 26	1,426 \$ 1,426		
Task 2.3 Conduct and Document Project Meetings		32 \$ 11,200	- \$ -	- \$ -	32 \$ 11,200		208 \$ 208	11,408 \$ 11,408	24 weekly contractor & other meetings, Prep, Minutes	
Task 2.4 Review Contractors Construction Schedule		- \$ -	- \$ -	- \$ -	- \$ -		- \$ -	- \$ -	2 monthly update 1 hrs each CM	
Task 2.5 Maintain Project Records		- \$ -	4 \$ 520	- \$ -	4 \$ 520		26 \$ 26	546 \$ 546	24 weekly hrs PC	
Task 2.6 Review and Evaluate Monthly Progress Payments		2 \$ 700	- \$ -	- \$ -	2 \$ 700		13 \$ 13	713 \$ 713	4 pay requests, including final 0.5 hrs each	
Task 2.7 Respond to RFI's		8 \$ 2,800	- \$ -	16 \$ 3,600	24 \$ 6,400		156 \$ 156	6,556 \$ 6,556	16 Assumed Number of RFI's/RFC's 0.5 hrs CM	
Task 2.8 Prepare PCO's and Change Orders		- \$ -	- \$ -	- \$ -	- \$ -		- \$ -	- \$ -	2 Assumed Number of PCO's 1 hrs each CM	
Task 2.9 Coordinate Submittal and Shop Drawing Review		6 \$ 2,100	- \$ -	- \$ -	6 \$ 2,100		39 \$ 39	2,139 \$ 2,139	8 Assumed Number of shop drawings/submittals 0.8 hrs CM	
Task 2.10 Perform Claims Management		- \$ -	- \$ -	- \$ -	- \$ -		- \$ -	- \$ -	Assumes no formal claims. Time is for meetings & communication to resolve field issues	
Sub-Total		68 \$ 21,800	4 \$ 520	16 \$ 3,600	88 \$ 25,920		572 \$ 572	26,492 \$ 26,492		
Task 3: Field Inspection/Observation										
Task 3.1 Site Visits		72 \$ 25,200	- \$ -	- \$ -	72 \$ 25,200		828 \$ 828	26,028 \$ 26,028	6.0 avg hrs per day per site visit 12 Site Visits(12 over 24 week schedule)	
Task 3.2 Prepare Photograph and Video Documentation		- \$ -	- \$ -	- \$ -	- \$ -		- \$ -	- \$ -	Prior to Pre-construction and at Completion	
Task 3.3 Testing		- \$ -	- \$ -	- \$ -	- \$ -	\$58,585	8,788 \$ 8,788	67,373 \$ 67,373	Material testing/Full Time while constructing the dikes	
Task 3.4 Develop Punchlists/review		2 \$ 700	- \$ -	8 \$ 1,800	10 \$ 2,500		115 \$ 115	2,615 \$ 2,615		
Task 3.5 Compile Final Documents/Close-out		4 \$ 1,400	- \$ -	- \$ -	4 \$ 1,400		46 \$ 46	1,446 \$ 1,446	Record Drawings, warranty items Documentation ready for audit	
Task 3.6 Prepare Final Pay Estimate		- \$ -	- \$ -	- \$ -	- \$ -		- \$ -	- \$ -	Final pay request, coordinate retention release Notice of Completion	
Sub-Total		78 \$ 27,300	- \$ -	8 \$ 1,800	86 \$ 29,100	\$ 58,585	9,777 \$ 9,777	97,462 \$ 97,462	97462 check	
Project Vehicle, Travel & Misc Expenses								\$2,000	\$ 2,000	\$ 100 estimated travel expense for site visits
Project Totals		154 \$ 51,900	6 \$ 780	24 \$ 5,400	184 \$ 58,080	\$ 58,585	10,414 \$ 10,414	129,079 \$ 129,079		

* Associated Project Costs (APC) - consumables and technology not included in wage or overhead calculations



Main:
(916) 455-4225

conformance with the approved project plans, specifications, and the recommendations of the Geotechnical Investigation Report.

Laboratory testing of construction materials, in conjunction with the above-described field inspections and testing, will be performed in accordance with the project plans, specifications, and applicable jurisdictional requirements, as well as relevant standards established by ASTM International, AASHTO, and Caltrans, to evaluate whether the materials are in compliance with project requirements

DELIVERABLES

- Daily Field Reports with any applicable test data will be reviewed by a Crawford project manager and provided to the project team at a minimum on a weekly basis.
- When requested, at the completion of the project Crawford & Associates will provide one (1) final summery letter of our services.

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

FEES

Based on our construction experience and the project size, visits for testing and observation will likely vary between half-day to a full-day. 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 contractor's actual scheduling, size of 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.

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 for the estimated fee of \$58,585.00, in accordance with the attached rate schedule. A detailed fee estimate is attached.

ASSUMPTIONS

- This project will be subject to the California Prevailing Wage Law (determination no. NC-63-3-9-2025-1).
- 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.
- Non-standard equipment such as ladders, man lifts, et will be provided by others.

AUTHORIZATION

Crawford & Associates, Inc. will provide services in accordance with the terms and conditions outlined in our standard professional services agreement. If the client requires the use of an alternate form of contract or agreement, please note that additional time may be needed for internal and legal review prior to authorization and commencement of services.

SCHEDULING AND AVAILABILITY

All materials testing and special inspection services will be provided on an as-needed, as-scheduled basis. Scheduling field services is subject to availability and must be coordinated in advance through our dispatch team.

Scheduling requests are accepted Monday through Friday, between the hours of 7:00 AM and 4:30 PM, excluding observed holidays. Requests received during these hours will be processed for the following business day, unless otherwise confirmed.

We recommend submitting requests as early as possible to ensure availability and adequate planning for your project needs, with a minimum of 24 hours' advanced notice. To ensure requests are received and processed in a timely manner, please include the following on all email requests.

Scheduling email contacts:

- Dispatch Team: dispatch@crawford-inc.com
- Dispatch Main Line: 916-455-4225
- Project Manager, John Hyslop, j.hyslop@crawford-inc.com

CLOSING

Crawford & Associates appreciates the opportunity to present this proposal to provide materials testing and special inspection services for this project. We are fully committed to delivering exceptional results and building a partnership that will continue to add value far into the future.

Sincerely,



Robert Hill
Director of Construction Services – Materials Testing

Attachments: Fee Itemization

Project Name: **LBRID - Bond Basin**
 County/City: **Pope Valley, CA**
 Services: **Construction Materials Testing and Special Inspection Services**

Date: **1/6/2026**



Crawford & Associates, Inc. Tasks and Descriptions

	Principal *	Senior Project Manager *	Construction Services Director *	Project Manager II	Project Manager I	Senior Engineer II	Senior Engineer I	Senior Geologist	Project Engineer III / Geologist III	Project Engineer II / Geologist II	Project Engineer I / Geologist I	Senior Engineer / Geologist	Drafter	Project Coordinator	Administrative Assistant	Construction Services Supervisor	Construction Services Project Administrator	NDT II/III/IV/CWI Inspector	Special Inspector	Technician	Special Inspector (Masonry) **	Special Inspector II (Welding) **	Soils/Asphalt Technician **	Concrete Technician **	Laborer/Technician **	HOURS PER TASK	LABOR COST PER TASK	OTHER DIRECT COSTS	LABORATORY TESTING	TOTAL COST PER TASK
Crawford Staff	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD					
Hourly Rate	\$275.00	\$255.00	\$255.00	\$245.00	\$210.00	\$225.00	\$205.00	\$180.00	\$180.00	\$160.00	\$150.00	\$140.00	\$125.00	\$135.00	\$115.00	\$175.00	\$155.00	\$185.00	\$140.00	\$110.00	\$170.00	\$160.00	\$150.00	\$140.00	\$115.00					
TASK NO. 1																														
Project Management / Coordination / Report Review	1.00		4.00		10.00									8.00			10.00									33.00	\$ 5,495.00	\$ 100.00	\$ -	\$ 5,595.00
Project Meetings					30.00														30.00							60.00	\$ 10,500.00			\$ 10,500.00
Task 1 - Hours	1.00	0.00	4.00	0.00	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	10.00	0.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00	93.00	\$ 5,495.00	\$ 100.00	\$ -	\$ 5,595.00
TASK NO. 2																														
Earthwork																														
Observation and Testing																										240.00	\$ 36,000.00	\$ 2,970.00	\$ 4,120.00	\$ 38,970.00
Travel Time & Sample Transport																				90.00						90.00	\$ 9,900.00			\$ 9,900.00
Task 2 - Hours	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	0.00	240.00	0.00	0.00	330.00	\$ 45,900.00	\$ 2,970.00	\$ 4,120.00	\$ 48,870.00	
Subtotal- Hours/Tasks	1.00	0.00	4.00	0.00	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	10.00	0.00	30.00	90.00	0.00	0.00	240.00	0.00	0.00	423.00				
Overtime and Graveyard Charges May Apply																														
(*) Indicates Key Staff																														
(**) Indicates Prevailing Wage Classifications																														
																									TOTAL LABOR COST:		\$ 51,395.00			
																									OTHER DIRECT COSTS:		\$ 3,070.00			
																									LABORATORY TESTING:		\$ 4,120.00			
																									TOTAL ESTIMATED FEE:		\$ 58,585.00			

Crawford & Associates - Other Direct Costs

1/6/2026

Task 1 Project Management / Coordination / Report Review

DESCRIPTION	QUANTITY	UNIT	UNIT COST	MULT	TOTAL
Mileage	100	Mile	\$ 0.75	1	\$ 75.00
Vehicle Charge	1	Day	\$ 25.00	1	\$ 25.00

Task 1 ODC Total: \$ 100.00

Task 2 Earthwork

DESCRIPTION	QUANTITY	UNIT	UNIT COST	MULT	TOTAL
Mileage	3000	Mile	\$ 0.74	1	\$ 2,220.00
Vehicle Charge	30	Day	\$ 25.00	1	\$ 750.00
Per Diem (Lodging & Meals)		Day	\$ 350.00	1	\$ -

Task 2 ODC Total: \$ 2,970.00

TOTAL OTHER DIRECT COSTS	\$ 3,070.00
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Task 1 Project Management / Coordination / Report Review

DESCRIPTION	QUANTITY	UNIT	UNIT COST	MULT	TOTAL
No Labs				1	\$ -

Task 1 ODC Total: \$ -

Task 2 Observation and Testing

DESCRIPTION	QUANTITY	UNIT	UNIT COST	MULT	TOTAL
Atterberg Limits Multipoint	2	Each	\$ 290.00	1	\$ 580.00
4" Proctor	4	Each	\$ 490.00	1	\$ 1,960.00
6" Proctor	2	Each	\$ 550.00	1	\$ 1,100.00
Sieve Analysis w/#200 Wash	2	Each	\$ 240.00	1	\$ 480.00

Task 2 ODC Total: \$ 4,120.00

TOTAL LABORATORY TESTS	\$ 4,120.00
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CRAWFORD & ASSOCIATES - 2026 FEE SCHEDULE

EXPIRES DECEMBER 31, 2026

PROJECT MANAGEMENT	HOURLY RATE
Principal	\$ 275.00
Senior Project Manager	\$ 255.00
Project Manager II	\$ 245.00
Project Manager I	\$ 210.00

ENGINEER / GEOLOGIST	HOURLY RATE
Senior Engineer II	\$ 225.00
Senior Engineer I	\$ 205.00
Senior Geologist	\$ 180.00
Project Engineer III / Geologist III	\$ 180.00
Project Engineer II / Geologist II	\$ 160.00
Project Engineer I / Geologist I	\$ 150.00
Staff Engineer / Geologist	\$ 140.00
Drafter	\$ 125.00

PROJECT SUPPORT	HOURLY RATE
Project Coordinator	\$ 135.00
Administrative Assistant	\$ 120.00

MATERIALS TESTING & CONSTRUCTION SERVICES	HOURLY RATE
Construction Services Director	\$ 255.00
Construction Services Supervisor (John D, ...)	\$ 175.00
Construction Services Project Administrator (Mike...)	\$ 155.00
NDT II/Gluta/CWI Inspector	\$ 185.00
Special Inspector	\$ 140.00
Technician	\$ 120.00

PREVAILING WAGE	HOURLY RATE
Group 1 - Special Inspector I (Masonry)	\$ 170.00
Group 2 - Special Inspector II (Welding)	\$ 160.00
Group 3 - Soils/Asphalt Technician	\$ 150.00
Group 4 - Concrete Technician	\$ 140.00
Group 2 and 3 - Laborer Technician	\$ 115.00

WORKING HOURS AND PREMIUM TIME	RATE
A Regular Workday is defined as the first 8 hours between 6am and 6pm, Monday through Friday.	
Standard Overtime: Weekdays & Saturdays (first 8 hours)	150% Above Hourly Rate
Overtime: Saturdays (over 8 hours); Sunday (first 8 hours)	200% Above Hourly Rate
Overtime: Sundays (over 8 hours) and Holidays	300% Above Hourly Rate
Night Shift is defined as a shift starting after 2pm and before 4am	115% Above Hourly Rate

REIMBURSABLES	RATE
Mileage	\$ 0.75
Vehicle Charge	\$ 25.00
Outside Costs	15% Markup
Permit Fees (City/County)	15% Markup
Per Diem (Lodging & Meals)	\$ 350 / Day
Rush Lab Testing	50% Markup

ENGINEERING FIELD EQUIPMENT	RATE	DETAIL
Core Box	\$ 18.00	Each
Core Machine with Generator & Hand Auger	\$ 2,700.00	Day
Hand Auger	\$ 210.00	Day
Hot Mix Asphalt Patching (1st Core)	\$ 1,050.00	First
Hot Mix Asphalt Patching (2 or More)	\$ 500.00	Each After
Percolation/Infiltration Testing Equipment	\$ 210.00	Day
Steel Liners (MCAL)	\$ 12.00	Each
Survey Equipment (Liquid Level)	\$ 155.00	Day
Survey Equipment (Tripod, Level, Rod)	\$ 155.00	Day
Traffic Control - Minor (Non-DBE, Non-PW)	\$ 500.00	Day
Wildcat DCP Equipment	\$ 785.00	Day
Wildcat DCP Tip	\$ 21.00	Each

CONSULTANT FEES	RATE	Detail
Drilling	Cost + 15%	
Drilling Including DPT	Cost + 15%	
Traffic Control - Major	Cost + 15%	

SEISMIC ANALYSIS	RATE	DETAIL
EZ Frisk Software Use	\$ 2,350.00	Per Location
Seismic Survey Equipment (24 channel)	\$ 1,835.00	Day
Seismic Data Processing	Cost + 15%	

MATERIALS TESTING EQUIPMENT	RATE	Detail
Concrete Testing Equipment (Slump, Unit Wt, Air)	\$ 65.00	Day
Torque Wrench	\$ 25.00	Day
Bolt tensioning Device - Skidmore	\$ 65.00	Day
4x8 Cylinder Mold	\$ 10.00	Ea
6x12 Cylinder Mold	\$ 12.00	Ea
Proof Load Ram and Pump	\$ 55.00	Day
Sand Cone Equipment	\$ 7.00	Ea
Moisture Emission Test Kit	\$ 75.00	Ea
NDT Weld Testing Equipment UT/MT/PT	\$ 75.00	Day
Nuclear Density Guage	\$ 30.00	Day

Annual Rate Increase Crawford & Associates, Inc. anticipates an hourly rate increase 5% effective Jan 1st of each new year without prior notice. For projects that span multiple years, an updated rate schedule will be sent with the first invoice that reflects the annual increase.

2026 Laboratory Fees

Soils - Characteristics

	ASTM	AASHTO	Caltrans	2026 Rate
Sieve Analysis w/#200 Wash	D6913	T11/T88	CT202	\$ 240.00
Sieve Analysis w/out #200 Wash	D6913	T88	CT202	\$ 180.00
Sieve Analysis with Hydrometer	D6913/D7928	T88	-	\$ 490.00
#200 Wash Only	D1140	T11	202	\$ 135.00
Hydrometer Analysis	D7928	T88	-	\$ 310.00
Seive Analysis - Mass Grain Size (Scour)	D6913	T88	202	\$ 2,500.00
Atterberg Limits Multipoint	4318	T89 & T90	204	\$ 290.00
Atterberg Limits Single Point	D4318	T89 & T90	204	\$ 245.00
Liquid Limit Only	D4318	T89	204	\$ 215.00
Plastic Limit Only	D4318	T90	204	\$ 150.00
Expansion Index	D4829	-	-	\$ 310.00
Moisture-Density	D2216			\$ 90.00
Soil Moisture Content	D2216	T265	CT226	\$ 40.00
Organic Content	D2974			\$ 145.00
USDA Soil Textural Analysis				\$ 110.00

Soils - Density

4" Proctor	D1557/D698	T180/T99	-	\$ 490.00
6" Proctor	D1557/D698	T180/T99	-	\$ 550.00
4" Proctor - Check Point	D1557/D698	T180/T99	-	\$ 135.00
6" Proctor - Check Point	D1557/D698	T180/T99	-	\$ 135.00
California Impact Test	-	-	216	\$ 375.00

Soils - Strength

Direct Shear - 3 Point Peak	D3080	T236	-	\$ 490.00
Triaxial Shear, Unconsolidated, Undrained	D2850	T296	-	\$ 195.00
Triaxial Staged, Unconsolidated, Undrained	D2850	T296	-	\$ 325.00
Triaxial Staged, Consolidated, Undrained	D4767	T297	-	\$ 595.00
Triaxial Staged, Consolidated, Drained	D7181	-	-	Ask for Quote
Unconfined Compression	D2166	T208		\$ 260.00
Resistance Value (R-Value) Soils	D2844	T190	301	\$ 435.00
Resistance Value (R-Value) Treated Soil/Aggregate Base	D2844	T190	301	\$ 540.00

Soils - Consolidation

1-D Consolidation	D2435	T216		\$ 455.00
1-D Consolidation (Time Rate)/Per Point	D2435	T216		\$ 115.00

Rock - Strength

Point Load	D5731			\$ 75.00
Unconfined Compression	D7012			\$ 250.00

Environmental Testing

pH, Resistivity, Sulfate, Chloride Content Suite			417422643	\$ 270.00
pH, Resistivity, Sulfate, Chloride Content, Redox Potential Suite	G200M		417422643	\$ 395.00
Landscape Suitability	LTP.4			\$ 140.00

Aggregates - HMA, Concrete

Seive Analysis - Course and Fine	C136 or D6913	T27	202	\$ 240.00
Seive Analysis - #200 Wash	C117	T11	202	\$ 135.00
Sieve Analysis - Coarse Aggregate	C136 or D6913	T27	202	\$ 190.00
Sieve Analysis- Fine Aggregate	C136 or D6913	T27	202	\$ 180.00
Specific Gravity - Coarse Aggregate	C128	T85	206	\$ 380.00
Specific Gravity - Fine Aggregate	C127	T84	207	\$ 215.00
Sand Equivalent - 3 Point	D2419	T176	217	\$ 180.00
Sand Equivalent - 1 Point	D2419	T176	217	\$ 135.00
Curshed Particals - Coarse Aggregate (One and two Face)	D5821	T335	205	\$ 265.00
Flat and Elongatd Particles	D4791	-	235	Ask for Quote
Clay Lums and Friable Particale	C142	T112		\$ 245.00
Fine Aggregate Angularity	C1252	T304	234	\$ 240.00
Organic Impurities	C40	T210	213	\$ 160.00
Abrasion Resistance LA Rattler	C131/535	T96	211	\$ 345.00
Bulk Density Unit Wiegth of Aggregate	C29	T19	212	\$ 170.00
Aggregate Moisture	C566	T255	226	\$ 60.00
Cleanness Value			227	\$ 270.00
Durability Index	D3744	T210	229	\$ 420.00

2026 Laboratory Fees (Cont.)

Hot Mix Asphalt

Asphalt Binder Content - Ignition Oven	D6307	T308	382	\$	250.00
Asphalt Binder Content - Ignition Oven Calibration	D6307	T308	382	\$	520.00
HMA Moisture Content		T329	226/370	\$	90.00
Maximum Specific Gravity (Rice)	D2041	T209	309	\$	255.00
Hveem Stability	1561/1560	T247/246	304/366	\$	525.00
Asphalt Binder Content by Extraction Method	D2172	T164		\$	440.00
Core Unit Weight - Field Speciman	D2726	T166	308	\$	70.00
Hamburg Wheel Track		T324	389	\$	1,600.00
Tensile Strength Ratio (TSR)	4867	T283	371	\$	1,500.00
Unit Wiegth, Gyrotory	D6925	T312		\$	380.00
VMA/VFA/Dust Proportion - MS2				\$	200.00

Concrete

Concrete Compressive Strength - 4x8 Cylinders	C39	T22	521	\$	45.00
Concrete Compressive Strength - 6x12 Cylinders	C39	T22	521	\$	55.00
Concrete Compressive Strength - Core	C42	T24		\$	105.00
Concrete Stength - Flexural Beam	C78/293	T97/T177	523	\$	135.00

Masonry

CMU Absorption/Unit Wt/Moisture	C140			\$	300.00
Masonry Grout Compression				\$	55.00
Masonry Mortar Compression				\$	45.00
Composite Prism Compression				\$	135.00
Masonry Core Shear				\$	300.00

Structural Steel

Reinforcing Steel - Tesile				\$	120.00
Reinforcing Steel - Bend				\$	120.00
Reinforcing Steel - Elongation (Up to #8)				\$	120.00
High Strength Bolt - Proof Load- Wedge Tension and Hardness Suite				\$	330.00
High Strength Nut - Proof Load and Hardness Suite				\$	220.00
High Strength Washer - Hardness				\$	110.00
Reinforcing 7 Wire Strand - Tensile				\$	380.00

Design

Soil Stabilization Mix Design (Lime or Cement)	D1633		373	\$	2,500.00
Full Depth Reclamation - Cement			373	\$	3,000.00

Miscellaneous

Sample Preparation by Hour				\$	115.00
Specimen cutting				\$	85.00
Sample Storage (Starting 90 days after final lab report)				\$	150.00