



San Lorenzo Valley Water District

F&L Proposal

Foreman Pressure Break Structure Replacement

Civil Engineers
Surveyors
Construction Managers

May 23, 2023

May 23, 2023

Josh Wolff, District Engineer
San Lorenzo Valley Water District
13060 Highway 9
Boulder Creek, CA 95006

Dear Mr. Wolff,

Freyer & Laureta, Inc. (F&L) is pleased to submit the following proposal to provide Design of the Foreman Pressure Break Structure to the San Lorenzo Valley Water District (SLVDW) in response to its Request for Proposals (RFP) dated April 18, 2023. We are excited to continue our partnership with SLVWD and implement improvements in its service areas affected by the CZU fires.

F&L is an established California Corporation (S-Corp) providing award-winning consulting engineering services for private and public agencies throughout the Bay Area. Since our inception more than 25 years ago, F&L has had the opportunity to successfully oversee many similar replacement and rehabilitation projects for numerous cities and special districts, including the San Lorenzo Valley Water District's 5-Mile Pipeline Study and Foreman Trail Rehab Design projects, NMWD, East Palo Alto, Town of Hillsborough, Coastside County Water District and the City of Menlo Park, among many others.

As Executive Vice President of F&L and professionally licensed in the State of California, I will serve as F&L's Principal-In-Charge and the primary point of contact for the District. I am committed to serving as the project manager for the duration of any agreement with NMWD and am authorized to bind F&L contractually. In my 23 years of professional experience, I have led numerous special district, city, county, state, and federal capital improvement projects of similar scope and size, emphasizing urban master planning, utility design, and construction planning. Leveraging my diverse experience and familiarity with the area in my current work with the District, I can offer SLVWD a unique perspective and understanding of the challenges faced by special districts in the San Francisco Bay Area.

- **Jeffrey Tarantino, P.E., Executive Vice President**
(415) 534-7070 (O) | (650) 619-3226 (M)
tarantino@freyerlaureta.com

For the project, F&L is teaming with Cal Engineering and Geology (CE&G) for the project geotechnical investigation. Our experienced team is excited to continue working with SLVWD on this project, offering a seamless transition that will allow us to streamline efforts and drive cost-efficient, timely project solutions for the District. We look forward to further discussions with SLVWD. Please call or email if you have any questions regarding this proposal.

Very truly yours,



Jeffrey Tarantino, P.E., Executive Vice President
Freyer & Laureta, Inc.

1 CONTRACTUAL SCOPE OF SERVICES

The following sections are intended to demonstrate compliance with the requirements outlined in Section V.1 of the RFP, specifically items V.1.i through V.1.iii, although we have added additional information related to the Project Team as well as Project Understanding and Requirements.

1.1 PROJECT TEAM

Freyer & Laureta, Inc. (F&L) is an award-winning civil engineering and surveying firm with offices in San Francisco, Oakland, and Novato, California. For over 25 years, F&L has provided survey, civil design, and construction management services for thousands of infrastructure improvement projects, specializing in water, sanitary sewer, storm drain rehabilitation, replacement, and installation. We will serve as the lead engineer for the Foreman Pressure Break Structure Replacement Project (Project).

Our key design partner, **Cal Engineering & Geology, Inc. (CE&G)**, has provided geotechnical and related civil engineering (geo-civil) consulting and design services to public agency and private industry clients throughout California since 1993. In that time, CE&G has worked together with local public agencies to complete more than 300 improvement projects, including water and wastewater pipelines, tanks, pump stations, dams and levees, flood control structures, roads, trails, parks, and buildings. Services for these projects have included geologic/seismic hazard evaluation; geotechnical investigations for foundations, retaining walls, pipelines, and dams; and geo-design for landslide repairs, retaining walls, flood walls, dams, and pedestrian bridges.

The key F&L and CE&G staff that will lead the project, including roles, are:

- Jeffrey J. Tarantino, P.E., is an Executive Vice President with F&L and will serve as the project manager.
- Rich Laureta, P.E., is the President of F&L and will serve as the QA/QC officer.
- Jason Feudale is a senior Staff Engineer with F&L and will serve as the design manager.
- Kevin Loeb, P.G., P.E. is an Engineering Geologist with CE&G and will serve as the geotechnical project manager.

Resumes for each of the key project leaders are included in Appendix A. The project leaders listed above will be supported by F&L staff in our Cupertino office and CE&G staff in the San Jose office.

1.2. PROJECT UNDERSTANDING AND REQUIREMENTS

F&L understands that the project goal is to reconstruct the Foreman Pressure Break Structure (FPBS) that was damaged during the August 2020 CZU Complex wildfire. The FPBS is a critical component of the District's raw water supply infrastructure. Raw water from Foreman Creek is blended with raw water from the Five-Mile Pipeline (5 Mile) and Peavine Pipeline (Peavine) systems. Due to varying influent pressure from each of the three raw water sources, the FPBS is necessary to reduce pressure from both the 5 Mile and Peavine systems to allow for blending with the Foreman Creek supply that is ultimately conveyed through common 12-inch diameter pipeline to the Lyon Water Treatment Plant (WTP).

The Project design is anticipated to include the following:

- System Control and Data Acquisition (SCADA) connections to the WTP, including turbidity levels, water levels, pressures, and flow rates at the FPBS with the specific SCADA equipment coordinated with District during design. F&L understands that our design will integrate the necessary monitoring equipment within the design, but District staff will perform the SCADA integration and programming necessary to incorporate the monitoring equipment into the District's overall SCADA system.
- PG&E power supply to the FPBS and fiber-optic communication conductors connecting the FPBS to the WTP utilizing the two 4-inch conduits to be installed by the District as part of a separate project. The District has confirmed that sufficient power is available at the WTP, and only electrical design between the WTP and the FPBS is required. Interfacing and coordination with PG&E are not required.
- The FBS will have multiple chambers with drain valves, and stainless steel screening to provide the District operations team to utilize any combination of raw water sources to meet potable water demands.
- Separate turbidity reduction and monitoring capability for the FPBS and for Foreman Creek;
- Motorized valves at Peavine inlet to FPBS, 5-mile inlet to FPBS, at outlet from FPBS to the existing 12-in pipeline to WTP, and at Foreman intake side of 12-in tee with magnetic flow meters for each raw water supply;
- CCTV with a four-camera system at FPBS with monitor at WTP, including cameras for Foreman Intake water level monitoring and general site security;
- Humidity controls for both structures;
- Debris settling and removal provisions through the use of a new maintenance bypass line that can convey flows from the FPBS to the existing settling pond;
- Calculations demonstrating:
 - Proper sizing of all components, conductors, and fiberoptic lines;
 - Detention time sufficient to prevent the conveyance of entrained air into the WTP;
 - Structural calculations as required for all structures; and
 - Site grading and erosion control measures.

F&L has developed a detailed scope of services presented in the following section that will help our team meet all of the requirements outlined above and engage the District staff collaboratively throughout design. As the Engineer of Record, we understand that we are responsible for all critical design elements, but we know from experience that a critical component like the FPBS must have review and input from District operations staff throughout the project development.

1.3. DETAILED SCOPE OF SERVICES

As requested in the RFP, F&L has developed a detailed scope of services, including identifying the anticipated deliverables and key assumptions. The scope of services is the basis for our team's estimated professional services fee.

TASK 1: PROJECT MANAGEMENT

F&L will provide overall project management for the team, including coordination with the District. We will coordinate review meetings to discuss the review comments and receive feedback on the deliverables. This task includes preparing and submitting progress reports with each monthly invoice summarizing the work accomplished during the billing period, the work to be accomplished in the upcoming billing period, critical issues requiring resolution, and budget status.

We also propose to hold bi-weekly 30-minute conference calls to allow our project manager to provide real-time updates to the District's project manager. The goal of the bi-weekly call is to offer the opportunity to review in-progress deliverables, provide schedule updates, and identify potential supplemental information needs that may be identified during the course of the project.

Deliverables

1. Monthly progress reports
2. Monthly invoices, including a summary of work completed
3. Meeting agendas and minutes

TASK 2: PRELIMINARY DESIGN

The F&L Team will develop a Basis of Design (BOD) Report for the proposed Project. The purpose of the BOD Report is to document key information, including:

- Project goals and objectives;
- Document key design criteria for the FPBS, including all water quality and system pressure monitoring equipment;
- Present results of geotechnical site investigations;
- Document necessary instrumentation and controls;
- Develop preliminary opinions of probable construction cost; and
- Other key information that was considered during preliminary design.

To support development of the BOD, the F&L team will provide the following tasks;

- Perform supplemental topographic survey of the FBPS site to confirm existing conditions that may vary from the September 2020 topographic survey that will be provided by the District.
- Perform geotechnical investigation including:
 - One half day of field investigation, including drilling between up to two borings to a depth between 10-feet below ground surface (ft bgs) and 20-ft bgs unless drill rig refusal is encountered. Drill cuttings may be scattered unobtrusively onsite.
 - All borings will be performed using conventional truck-mounted drilling equipment, and the District will provide site access.
 - Soil samples from the borings will be collected utilizing the Standard Penetration Test Split Spoon Sampler and/or California Modified Sampler methods, with samples collected at 2.5 to

- 5-foot intervals. Blow counts will also be recorded. Groundwater levels will be measured in the borings.
- Laboratory testing of all soil samples will include but not limited to moisture content, dry soil, density, sieve analyses, and Atterberg Limits.
- A geotechnical report will be prepared to present the results of the field and laboratory investigations, including geotechnical design.
- Prepare preliminary design, including
 - Site evaluation and plans;
 - Structural design criteria;
 - Preliminary Process and Instrumentation Diagrams;
 - Standard details; and
 - Develop Opinions of Probable Construction Cost (OPC).
- Prepare brief summary of potential future integration of an inline hydropower system that could be constructed when the 5 Mile and/or Peavine segments are reconstructed. The purpose of the hydropower evaluation is not to determine the final feasibility of the potential technology but rather not preclude the District from future addition of the hydropower system.

The F&L team will prepare the draft BOD Report as well as prepare for and facilitate a technical review workshop with the District to review the draft BOD Report. The workshop will allow the F&L team to confirm with the District the final design criteria, site layout and accessibility, water quality monitoring requirements, and other key project aspects. The F&L team will prepare response to District comments and issue a final BOD report.

Deliverables

1. Draft BOD Report
2. Technical Review Workshop Agenda and Minutes
3. Response to Comments
4. Final BOD Report

TASK 3: FINAL DESIGN

The F&L Team will prepare Construction Documents (CDs) to document the proposed new FPBS improvements. The CDs will be developed to allow the District to choose to either combine the pipeline and FPBS improvements as a single bid package or split into two separate bid packages.

The F&L Team will prepare drawings and technical specifications for the District's use in soliciting bids. We will assist the District in preparing bid documents using the District's standard general specifications. F&L will provide the following tasks:

- Prepare Construction drawings, including;
 - Cover Sheet
 - General Notes, Legend, and Abbreviations
 - Erosion Control Plan

- Site Plan
- FPBS Plan and Elevations
- Electrical Site Plan
- Process and Instrumentation Diagrams
- Standard Details

- Prepare technical specifications, including;
 - Division 1 – General Requirements
 - Division 2 – Existing conditions
 - Division 3 – Concrete
 - Division 5 – Metals
 - Division 9 – Finishes
 - Division 26 – Electrical
 - Division 27 – Communications
 - Division 31 – Earthwork
 - Division 33 – Utilities

- Prepare OPC Updates

The F&L Team will prepare CD submittal at the 90% and Final design levels. Following the 90% design submittal, the F&L Team will facilitate a design review workshop to present the 90% design submittal to District staff and solicit feedback. F&L will prepare a meeting agenda and provide meeting minutes that will include written response to comments.

Following the 90% design submittal workshop, the F&L team will prepare the Final design submittal for the District's use in soliciting construction bids. The Final design submittal will include plans and specifications signed and stamped by a California Professional Engineer for each discipline. The F&L team will utilize the District provided front end documents for Division 0 to prepare the final bid documents.

Deliverables

1. 90% design submittal, including Plans, Specifications, and OPC in PDF format
2. 90% design workshop agenda and minutes in PDF format
3. Final Design Submittal in PDF format

1.4. DETAILED SCHEDULE

The F&L team has developed a project schedule to implement the study, including highlighting key points for engaging the District. The project schedule also provides suggested milestones for potential public meetings and District Board updates. The proposed project schedule is included in Section 6 of this proposal.

2 CONTRACTOR'S EXPECTATIONS OF OWNER

The F&L team has developed our proposal based on the following understanding of the information to be provided by the District:

- Topographic survey from September 2020 will be provided in ACAD format.
- Written list of all water quality criteria and operational conditions that will be monitored listed by raw water source, including (if available) historical operation information from the original FPBS before the August 2020 CZU fire.
- List of District preferred equipment for turbidimeters, pressure monitors, flow meters, and other critical equipment that will be integrated into the final design.
- Site access for the geotechnical field investigations.
- Editable copies of the District front end documents for the F&L team's use in developing the final bid documents.
- The District will complete its review of submittals within 10 business days.
- As-built drawings for the Lyon WTP electrical equipment to facilitate the F&L team's development of the electrical design.
- District will install two 4-inch conduits between the FPBS and the Lyon WTP, with one conduit for power and one for communication.
- District will provide all SCADA integration design and services.
- District will confirm that sufficient power is available from the existing PG&E service, and no interaction with PG&E by the F&L team will be required.

3 IDENTIFICATION OF EXTRA SERVICES

F&L did not identify any potential extra services beyond the information presented in Section 1.3.

4 EXCEPTIONS

F&L has thoroughly read the RFP and does not take any exceptions to the project goals, but we have developed our Scope of Services presented in Section 1 based on the following key assumptions:

- The existing PG&E electrical service to the Lyon WTP is adequate, and no upgrades will be required;
- Boundary survey is not included;
- Permit fees are not included;
- Bid support services are not included;
- Engineering services during construction are not included;
- Existing utility potholing is not included, and
- The District will complete its review of submittals within 10 business days.

5 INSURANCE

F&L can meet all of the insurance requirements identified in the RFP.

6 TOTAL PROFESSIONAL FEE AND FEE SCHEDULES

6.1. PROPOSED FEE

The F&L team's proposed level of effort, hourly rates, and not-to-exceed budget are presented in Table 6-1 per the RFP requirements.

6.2. PROJECT SCHEDULE

The F&L team has developed a project schedule to deliver the bid documents, highlighting key points for engaging the District. As with the fee proposal, the proposed project schedule is included as a separate attachment.

TABLE 6-1
BUDGET ESTIMATE FOR PROFESSIONAL DESIGN SERVICES FOR
FOREMAN PRESSURE BREAK STRUCTURE

San Lorenzo Valley Water District

TASKS	ESTIMATED LABOR (Hours) (1)							TOTAL LABOR COST (\$)	OTHER DIRECT COSTS				ESTIMATED COST (2)		
	F&L				CE&G				UNIT	QNTY	UNIT COST (\$)	10% MARKUP (\$)	TOTAL COST PER ITEM (\$)	SUB TOTALS (\$)	
	Clerical	Staff Engineer II	Staff Engineer IV	Principal	Senior Principal Engineer	Senior Geologist	Project Assistant								Senior GIS/CADD Specialist
	100	150	170	250	330	359	121	171							
Task 1: Project Management and Coordination															
General management including invoicing	8			4	1	5	2		\$4,165					\$4,165	
Bi-weekly Progress Meetings with District				8					\$2,000					\$2,000	
Coordination with District				4					\$1,000					\$1,000	
Subtotal Labor Hours - Task 1	8			16	1	5	2		\$7,165	Estimated Cost - Task 1				\$7,200	
Task 2: Preliminary Design Phase															
Supplemental Topographic Survey (Allowance)		2							\$300	ls	1	\$2,000	\$200	\$2,500	
Geotechnical Investigation															
Prepare for field work						6			\$2,152	Uti/TCP	1	\$1,200	\$120	\$3,472	
0.5 Days of Field work (inc. drill and traffic control subs)						11			\$3,945	Subs	1	\$3,245	\$325	\$7,514	
Lab analysis						2			\$717	Lab	1	\$750	\$75	\$1,542	
Report				4	24		6		\$10,949					\$10,949	
Site Visit (One Day) inc. field report	8	8							\$2,560	Day	1	\$600	\$60	\$3,220	
Draft Basis of Design Report															
Prepare Structural Design Criteria Summary		8	4						\$1,880					\$1,880	
Prepare Hydraulic Design Criteria Summary		8	4						\$1,880					\$1,880	
Develop site plan		20	4						\$3,680					\$3,680	
Develop Instrumentation and Controls Strategy		20	4						\$3,680					\$3,680	
Prepare opinion of probable cost		8	4						\$1,880					\$1,880	
Prepare preliminary project schedule			4						\$680					\$680	
Internal Review				4					\$1,000					\$1,000	
Prepare submittal	8	8	2						\$2,340					\$2,340	
Technical Review Workshop			2	2					\$840					\$840	
Prepare Response to Comments	4	4	2						\$1,340					\$1,340	
Prepare Final Basis of Design	2	4	4	8					\$3,480					\$3,480	
Subtotal Labor Hours - Task 2	14	90	42	14	4	43		6	\$43,303	Estimated Cost - Task 2				\$51,900	

TABLE 6-1
BUDGET ESTIMATE FOR PROFESSIONAL DESIGN SERVICES FOR
FOREMAN PRESSURE BREAK STRUCTURE

San Lorenzo Valley Water District

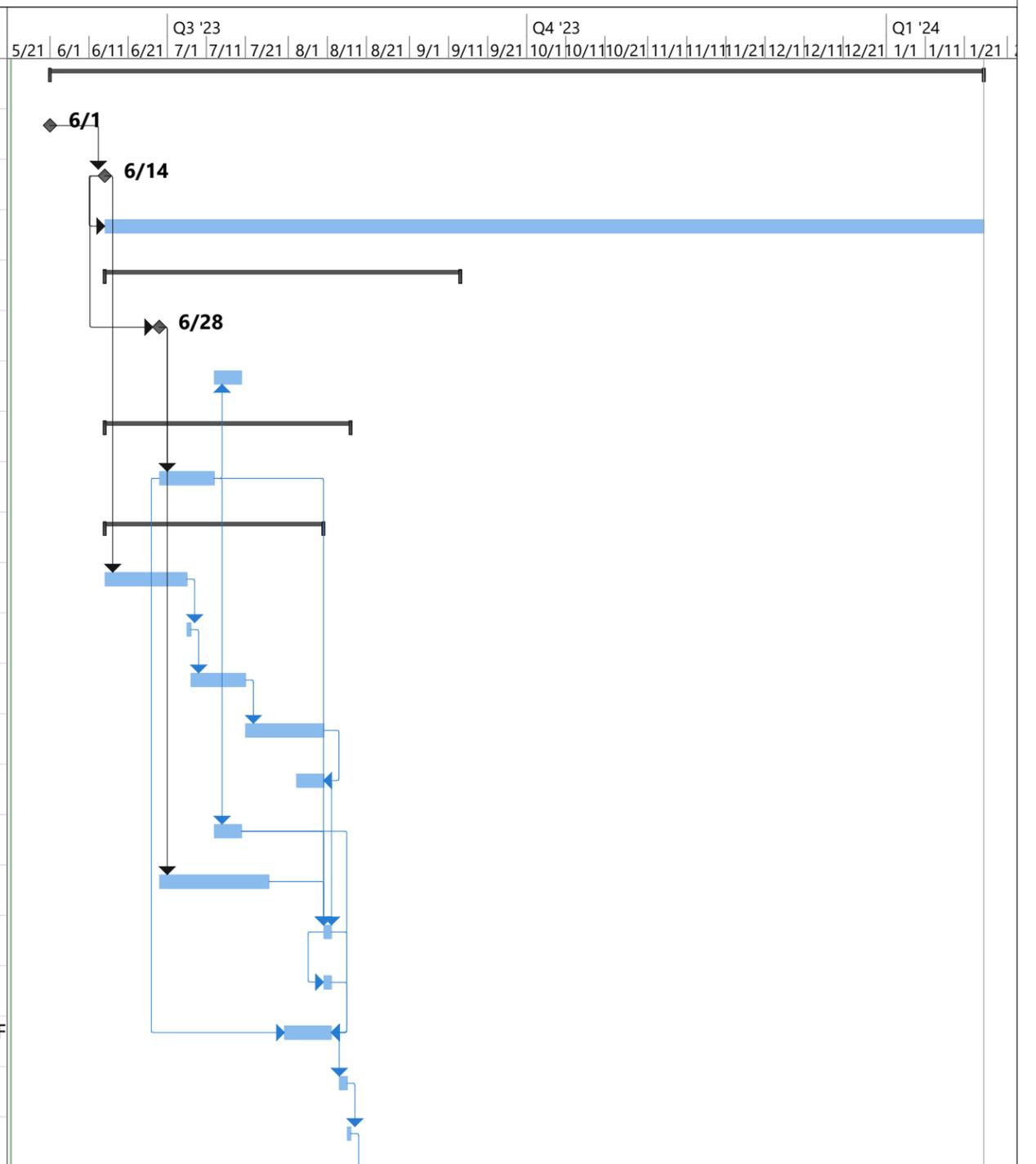
TASKS	ESTIMATED LABOR (Hours) (1)								TOTAL LABOR COST (\$)	OTHER DIRECT COSTS				ESTIMATED COST (2)	
	F&L				CE&G					UNIT	QNTY	UNIT COST (\$)	10% MARKUP (\$)	TOTAL COST PER ITEM (\$)	SUB TOTALS (\$)
	Clerical	Staff Engineer II	Staff Engineer IV	Principal	Senior Principal Engineer	Senior Geologist	Project Assistant	Senior GIS/CADD Specialist							
Task 3: Final Design Phase	100	150	170	250	330	359	121	171							
90% CDs															
Drawing Preparation Specifications		120	16	2					\$21,220					\$21,220	
Opinion of Probable Cost	40		40	1					\$11,050					\$11,050	
Internal Review			4	1					\$8,663					\$8,663	
Prepare Submittal Package				8					\$2,000					\$2,000	
Design Review Workshop	16	16	4						\$4,680					\$4,680	
Response to Comments		8	4	1					\$1,680					\$1,680	
Response to Comments									\$2,130					\$2,130	
Bid Package															
Drawing Preparation		4	2						\$940					\$940	
Specifications			4						\$680					\$680	
Opinion of Probable Cost		1	1						\$320					\$320	
Internal Review				1					\$250					\$250	
Prepare Submittal Package	4	2							\$700					\$700	
Coordination Allowance				24					\$6,000					\$6,000	
Subtotal Labor Hours - Task 3	60	151	79	42					\$60,313					Estimated Cost - Task 3	\$60,300
Total Labor Hours	82	241	121	72	5	48	2	6	\$110,781					Total Estimated Cost	\$119,400

Notes to Table:

- (1) Billing rates for subconsultants includes 10% markup.
- (2) Estimated costs are rounded to the nearest \$100.

Proposed Project Schedule
Bracken Brae and Forest Springs Mutal Water Companies Consolidation Project
 San Lorenzo Valley Water District

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Q3 '23												Q4 '23												Q1 '24					
							5/21	6/1	6/11	6/21	7/1	7/11	7/21	8/1	8/11	8/21	9/1	9/11	9/21	10/1	10/11	10/21	11/1	11/11	11/21	12/1	12/11	12/21	1/1	1/11	1/21					
1		Foreman Pressure Break Structure Project	171 days	Thu 6/1/23	Thu 1/25/24																															
2		Board Approval	0 days	Thu 6/1/23	Thu 6/1/23																															
3		Notice to Proceed	0 days	Wed 6/14/23	Wed 6/14/23	2FS+10 days																														
4		Task 1: Project Management	161 days	Thu 6/15/23	Thu 1/25/24	3SS																														
5		Task 2: Preliminary Design	65 days	Thu 6/15/23	Wed 9/13/23																															
6		Site Visit	0 days	Wed 6/28/23	Wed 6/28/23	3SS+10 days																														
7		Topographic Survey	5 days	Thu 7/13/23	Wed 7/19/23	9																														
8		Basis of Design Report	45 days	Thu 6/15/23	Wed 8/16/23																															
9		Prepare site plan	10 days	Thu 6/29/23	Wed 7/12/23	6																														
10		Geotechnical Investigation	40 days	Thu 6/15/23	Wed 8/9/23																															
11		Prepare for field work	15 days	Thu 6/15/23	Wed 7/5/23	3																														
12		Perform field work	1 day	Thu 7/6/23	Thu 7/6/23	11																														
13		Laboratory analysis	10 days	Fri 7/7/23	Thu 7/20/23	12																														
14		Prepare report	14 days	Fri 7/21/23	Wed 8/9/23	13																														
15		Develop structural design criteria	5 days	Thu 8/3/23	Wed 8/9/23	14FF																														
16		Develop hydraulic design criteria	5 days	Thu 7/13/23	Wed 7/19/23	9																														
17		Develop Instrumentation and Controls Strategy	20 days	Thu 6/29/23	Wed 7/26/23	6																														
18		Prepare opinion of probable cost	2 days	Thu 8/10/23	Fri 8/11/23	9,16,15,17																														
19		Prepare preliminary construction schedule	2 days	Thu 8/10/23	Fri 8/11/23	18SS																														
20		Prepare internal draft report	10 days	Mon 7/31/23	Fri 8/11/23	9SS+10 days,18FF																														
21		Internal Review	2 days	Mon 8/14/23	Tue 8/15/23	20																														
22		Prepare final draft report	1 day	Wed 8/16/23	Wed 8/16/23	21																														



Project: Schedule_2021CIPPipel Date: Mon 5/22/23	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			



APPENDIX



Jeffrey J. Tarantino, P.E.

EXECUTIVE VICE PRESIDENT

Jeff Tarantino has an extensive civil engineering design and construction background developed during his 23 years of civil and environmental work experience. He has served as project manager on numerous program management, planning, design, permitting, and construction management projects, with a focus on civil site development, water supply treatment and distribution, wastewater treatment and collection, water reuse treatment and distribution, flood control, groundwater extraction and treatment systems, and water quality.

Jeff serves as the primary point of contact with permitting and environmental resources agencies on behalf of clients to facilitate open dialogue with the agencies. Jeff has demonstrated a unique ability to assist clients in bridging technical and non-technical challenges to deliver multi-beneficial projects within budget and on schedule.

PROJECTS

Infrastructure Design Projects

5-Mile Study, Foreman Trail Rehab Design, San Lorenzo Valley Water District; Water Distribution for the City of Burlingame, Town of Hillsborough, Valley of the Moon Water District, & Menlo Park; Water Treatment, City of Calistoga; Wastewater Collection for the City of Pacifica, City of San Mateo, City of Los Altos, & Town of Los Altos.

Infrastructure Construction Management Projects

City of Burlingame, Water Storage; Coastside County Water District & City of Calistoga, Water Treatment; Sewer Authority Mid-Coastside, Wastewater Storage; Town of Los Altos Hills, Wastewater Collection; City of East Palo Alto Groundwater Treatment

Program & Project Management

Monterey County Water Resources Agency, Water Supply; City of Lathrop, Water Reuse; City of Burlingame, Stormwater; City of East Palo Alto, Water Distribution; Santa Clara Valley Water District, Flood Control; City of Tracy, Water Supply; City of San Mateo, Street Rehabilitation

Development & Campus Projects

UCSF: Minnesota Street Student House; Campus Wide Technical Criteria Development; Weill Institute for Neuroscience, Zuckerberg San Francisco General Hospital's UCSF Research & Academic Building; UC Berkeley, Berkeley Way Project; 100 Channel Street (SF) Owner, One Mission Bay; Uber Headquarters, 1455 & 1515 Third Street; TNDC Candlestick Block 10A; Mission Bay: Park P2-P8; Park P3; TNDC, 681 Florida Street



EDUCATION

- Bachelor of Science in Civil Engineering
- Santa Clara University, Santa Clara, CA

CONTACT

650-619-3226
tarantino@freyerlaureta.com

20863 Stevens Creek Blvd.,
Suite 400
Cupertino, CA 95014

KEY EXPERIENCE

- Project manager for over \$100 million in potable water distribution, storage, and treatment system projects.
- Led multiple engineering assessments and studies to develop alternative evaluations to select preferred pump station, treatment system, and water conveyance improvements.
- District Engineer for both the Los Altos Hills County Fire District and Great Oaks Water District



Richard J. Laureta, P.E.

PRESIDENT

Rich Laureta has broad experience in civil engineering design and construction. In his 29 years of professional engineering experience, he has participated in the design, project management, and construction coordination of private sector engineering projects, as well as city, county, state and federal rehabilitation projects. His broad experience gives him the knowledge necessary to be an integral part of multi-disciplined teams in the planning, design and installation of challenging civil engineering projects. The combination of his design experience and his expertise in computer-aided drafting ensures accurate design drawings. His experience and dedication to the profession allows him to be a contributor to the success of diverse engineering projects.

PROJECTS

Infrastructure Master Planning & Design

Treasure Island, Stages 2 & 3; University of California, San Francisco; Mission Bay – Residential Area, Park NP 1-2, Park NP 3-5, & Park P16 projects; Mission Bay Drive & Circle Project; Blocks 29 - 32 & 33 - 34 Utility Master Plan, South of Channel (Chase Center); Long Range Development Plan

District Engineer/Public Works Projects

West Bay Sanitary District and East Palo Alto Sanitary District, District Engineer; Silicon Valley Clean Water, Conveyance System; City of Pacifica Wet Weather Flow Equalization Basin Project; University of California, San Francisco, Misc. Projects; City of San Leandro, Wastewater Collection Systems; City of Burlingame & City of San Bruno, Storm Drain Collection Systems

Office, Commercial & Residential Projects

Britannia Oyster Point, South San Francisco; Hercules Properties PUD, Hercules; McGrath Rentcorp Offices, Livermore; Children's Center, NAS North Island, San Diego; Marriott Courtyard & Bay West Cove, So. San Francisco; Channel Street (SF) Partners, One Mission Bay; BOSA, Arden, San Francisco

Roadway & Infrastructure Projects

Naval Training Center Drainage Design, San Diego; Rankin Pump Station Design, San Francisco; Ralston Avenue Grade Separation, Belmont; Special Weapons Area Pump Station, NAS North Island; Sutro Tower Improvements & Pier 45 Seismic Retrofit, San Francisco; Guadalupe River Retaining Walls, San Jose Bollman; Water Treatment Plant Expansion, Concord



EDUCATION

- Bachelor of Science in Civil Engineering
- California Polytechnic State University, San Luis Obispo

CONTACT

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Suite 400
Cupertino, CA 95014

KEY EXPERIENCE

- Decades' experience managing various infrastructure and Capital Improvement Program initiatives.
- Expertise in storm drain, striping/pavement, potable water, wastewater, and facilities
- Expertise in computer-aided drafting
- Design management and CEQA process work in highly sensitive areas



Jason Feudale

ENGINEER & CONSTRUCTION MANAGER

Mr. Feudale has over 20 years of experience in designing and constructing redevelopment and infrastructure replacement projects. His expertise in grading, drainage, erosion control, and utility design provides F&L with a high level of independent and efficient civil engineering construction document production. He has gained a great deal of experience in construction inspection that he applies to his design drawings to ensure a constructible project. In addition to his design experience, he has served as a construction inspector on multiple projects throughout the Bay Area.

A few engineering projects Jason has worked on for Freyer & Laureta, Inc., include:

PROJECTS

Infrastructure Planning & Design

Mission Bay Development, San Francisco; Britannia Oyster Point, So San Francisco; Village Square Pump Station, Cervantes Road Grinder Pump Force Main, Portola Valley; Stowe Lane Pump Station, San Mateo County; Sewer Pipe line Replacement, Wicks & Blue Dolphin Pump Stations, Sewer Point Repair, San Leandro; Foothills Park Maintenance and Parking Lot, Palo Alto; Neighborhood Storm Drain Project # 1 & # 2, Burlingame; East Palo Alto Capital Improvement Project 2007 & 2008, 2010 Sanitary Sewer Improvement Project, Illinois Pump Station, East Palo Alto; West Bay Sanitary District Offices Building, Capital Improvement Project 2005 - 2008, 2009 - 2010, 2010 - 2011, 2011 - 2012, Belle Haven Phases I - III, Sausal Vista Sanitary Sewer Pump Station, Menlo Park; Stanford San Hill Water Design, City of Palo Alto

Construction Inspection

Kebcenell Residence Drive Way, Peak Lane Grinder Pump Force Main, Cervantes Road Grinder Pump Force Main, Westridge Drive Sewer Project, Portola Valley; Veterans Hospital Sewer, Royal Oak Sewer, Lane Woods Sewer, Heritage Oaks Sewer, Morgan Lane Sewer I & II, Pope Street Emergency Sewer Project, Menlo Park; Los Trancos Sewer Project, San Mateo County; 2016 Sanitary Sewer Capital Improvements, Town of Los Altos Hills; Delaware Trunk Sewer Rehabilitation, City of San Mateo



EDUCATION

- Bachelor of Science in Civil Engineering
- University of California, Davis

CONTACT

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KEY EXPERIENCE

- Construction inspector for West Bay Sanitary District, East Palo Alto Sanitary District, and erosion Control Inspector for the town of Portola Valley
- Areas of expertise include construction engineering, grading, drainage, erosion control, utility design, and construction inspection
- OSHA #7410 Managing Excavation Hazards; MUTCD Traffic Work Zone

RELEVANT EXPERIENCE

Coyote Percolation Dam

San Jose, CA

Conducted and managed geotechnical fieldwork and desktop studies to assist with design recommendations for the replacement of Santa Clara Valley Water District's Coyote Percolation Dam. Field investigations were performed under the oversight of the Division of Safety of Dams (DSOD) and consisted of logging soil borings and installing and monitoring one vibrating wire piezometer and one standpipe monitoring well within the dam abutments. The geological desktop review and field data were used for engineering analysis to provide design and construction recommendations for a new rubber inflatable dam for Santa Clara Valley Water District.

Water and Sewer Line Improvements

Hayward, CA

Conducted and managed geotechnical fieldwork and desktop studies to provide HydroScience Engineers with design and construction recommendations for the replacement of up to 41 sewer and water line segments throughout the City of Hayward. The fieldwork consisted of locating existing pipelines and drilling and logging exploratory borings in the areas of the planned improvements. Borings were primarily located near planned trenchless crossings beneath railroad tracks and box culverts as well as directly above the existing sewer lines in some areas to inspect existing overlying fill to determine whether pipe bursting methods were feasible. Provided recommendations for open trench methods as well as trenchless pipe installations for pipe bursting, auger bore and jacking, guided auger bore, and micro tunneling.

Brackney Landslide Area Pipeline Risk Reduction

Ben Lomond, CA

Directed the geotechnical field exploration and assisted with engineering design services for the replacement of a segment of the City of Santa Cruz's public water pipeline identified for replacement due to potential landslide impact per FEMA. Analyses included site characterization, rock and soil slope stability, and constructability assessment of design alternatives. Completed the field exploration and a geotechnical design study for the project. Field investigations included: Seismic P-wave survey line, utility location survey, potholing, rock core and soil borings, downhole televiewer survey, falling head tests; environmental & corrosion testing, geotechnical index test for soil materials, rock and soil strength testing, and VWP installation and monitoring.

Carmel Valley Sewer Extension

Carmel, CA

This project involved providing geotechnical design recommendations for a proposed 9,900-foot-long sewer pipeline. As part of the project team, Mr. Loeb reviewed available geologic and geotechnical information for the development of a geotechnical investigation work plan to identify locations for borings and laboratory testing. He then led the field operations, which consisted of 12 exploratory borings to gather subsurface information in order to assist in providing design recommendations for open trench and trenchless crossings.

SLVWD Water Pipeline

Santa Cruz County, CA

This project involved providing geotechnical recommendations for five new waterline segments, totaling 17,300 lineal feet for the San Lorenzo Valley Water District. Mr. Loeb was the lead engineering geologist for the project and ran the field exploration program, which consisted of drilling 16 exploratory borings in order to aid in the development of geotechnical recommendations for open trench excavations.

Geotechnical Investigations

SF Bay Area, CA

Project geologist for over 50 geotechnical investigations for various purposes, including: shallow and deep foundations, levee improvements, embankment dam studies, roadway design, trail alignments, retaining wall design, housing developments, liquefaction and slope stability studies, landslide repair, and pipeline projects.



CERTIFICATIONS

CA Professional Geologist
No. 9665
CA Engineering Geologist
No. 2763
OSHA 40 Hour HAZWOPER

YEARS OF EXPERIENCE

7 (5 with CE&G)

EDUCATION

M.S., Geology, San José State University, San José, pending
B.S., Geology, California State University, Fresno, 2014

ACCOMPLISHMENTS

- Geologic and geotechnical investigations for public and private agencies
- Geologic mapping projects for landslide repairs
- Former project manager and field geologist for subsurface investigations for characterizing and analyzing soil, soil vapor, and groundwater at environmentally impacted sites
- OSHA Confined Space Safety Training
- OSHA Excavation Safety Training
- RCRA Hazardous Waste Training
- Former Geology Lab Instructor



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