Construction Management Services for the
Veterans Affairs Medical Facility
Off-Site Utilities Improvements Project
M20026/PUR 19-041

JULY 16, 2020
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## Fee Schedule

(Under Separate Cover/Sealed Envelope)

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City of Stockton Standard Agreement
PROPOSAL DOCUMENTS

A) RFP –
Construction Management Services for Veterans Affairs
Medical Facility Off-site Utilities Improvements Project

B) M20026/PUR 19-041

C) July 16, 2020

COMPANY NAME: TRC Engineers, Inc.

CONTACT NAME: Lincoln Leaman, PE, QSD/P

ADDRESS: 183 D’Arcy Parkway, Lathrop, CA 95330

TELEPHONE NUMBER: (916) 995-6572

EMAIL: LLeaman@trccompanies.com
NON-COLLUSION
STATE OF CALIFORNIA,
County of ________________ ss.

________________________, being first duly sworn, deposes and says: That on behalf of any person not named herein, that said Proponent has not colluded, conspired, combined or agreed, directly or indirectly with, or induced or solicited any other bid or person, firm or corporation to put in a sham bid, or that such other person, firm or corporation shall or should refrain from bidding; and has not in any manner sought by collusion to secure to themselves any advantage over or against the City, or any person interested in said improvement, or over any other Proponent.

(Signature Individual Proponent)

Subscribed and sworn to (or affirmed) before me on this ______ day of ______, 20____.

________________________

(proof of satisfactory evidence to be the person(s) who appeared before me)

No. 2
STATE OF CALIFORNIA,
County of ________________ ss.

Hank Doll, PE, QSDP | Vice President, Regional Manager - TRC Engineers, Inc. being first duly sworn, deposes and says: That they are the ________________ of a corporation, which corporation is the party making the foregoing bid; that such bid is genuine and not sham or collusive, or made in the interest or behalf of any person not named herein; that said Proponent has not colluded, conspired, combined or agreed, directly or indirectly with, or induced or solicited any other bid or person, firm or corporation to put in a sham bid, or that such other person, firm or corporation shall or should refrain from bidding; and has not in any manner sought by collusion to secure to themselves any advantage over or against the City, or any person interested in said improvement, or over any other Proponent.

(Signature Corporation Proponent)

Subscribed and sworn to (or affirmed) before me on this ______ day of ______, 20____.

________________________

(proof of satisfactory evidence to be the person(s) who appeared before me)

No. 3
STATE OF CALIFORNIA,
County of ________________ ss.

________________________, being first duly sworn, deposes and says: That they are a member of the firm, association or co-partnership, designated as ____________________________, who is the party making the foregoing bid; that the other person, or partners, are that such bid is genuine and not sham or collusive, or made in the interest or behalf of any person not named herein; that said Proponent has not colluded, conspired, combined or agreed, directly or indirectly with, or induced or solicited any other bid or person, firm or corporation shall or should refrain from proposing; and has not in any manner sought by collusion to secure to themselves any advantage over or against the City, or any person interested in said improvement, or over any other Proponent.

(Signature)

(Signature)

Subscribed and sworn to (or affirmed) before me on this ______ day of ______, 20____.

________________________

(proof of satisfactory evidence to be the person(s) who appeared before me)
CITY OF STOCKTON
REQUEST FOR PROPOSALS (RFP)
CONSTRUCTION MANAGEMENT SERVICES FOR THE VETERANS AFFAIRS MEDICAL FACILITY OFF-SITE UTILITIES IMPROVEMENTS PROJECT
PROJECT NO. M20026/PUR 19-041

PROPOSENT'S AGREEMENT

In submitting this proposal, as herein described, the proponent agrees that:

1. They have carefully examined the Scope of Work and all other provisions of this document and understand the meaning, intent and requirements of same.

2. They will enter into contract negotiations and furnish the services specified.

3. They have signed and notarized the attached Non-Collusion Affidavit form, whether individual, corporate or partnership. Must be 'A Jurat' notarization.

4. They have reviewed all clarifications/questions/answers on the City's website at www.stocktonca.gov/mudbid.

5. Confidentiality: Successful Proponent hereby acknowledges that information provided by the City of Stockton is personal and confidential and shall not be used for any purpose other than the original intent outlined in the Request for Proposal. Breach of confidentiality shall be just cause for immediate termination of contract agreement.

FIRM

TRC Engineers, Inc.

SIGNED BY

[Signature]

ADDRESS

1760 Creekside Oaks Drive, Suite 290
Sacramento, California 95833

TELEPHONE NO./FAX NO.

(916) 562-2053

E-MAIL ADDRESS

Hdoll@TRCcompanies.com

DATE

7/1/20

Hank Doll, PE, QSD/P
Vice President | Regional Manager

TITLE OR AGENCY
July 16, 2020

Office of the City Clerk
First Floor, City Hall
425 North El Dorado Street
Stockton, CA 95202-1997

Subject: Proposal to Provide Construction Management Services for the Veterans Affairs Medical Facility Off-Site Utilities Improvements Project, M20026/PUR 19-041

Dear Ms. Garza:

TRC is pleased to submit a proposal to provide construction management services for the Veteran Affairs Medical Facility Off-Site Utilities Improvements Project. As the City of Stockton (City) prepares to expand its sewer collection and water distribution infrastructure, it will require an experienced engineering team with the right combination of expertise and commitment to client service to seamlessly deliver technically sound, community-focused solutions. TRC is that team!

**Commitment of the Best People**

Our approach to meeting key project goals and delivering successful projects to you is largely based on the selection and commitment of the best people. Our team will be led by Construction Manager, Dustin Rath—a 22-year veteran engineer and construction manager with extensive experience with a wide-range of capital improvement and infrastructure projects, including water, wastewater, transportation, and public building (K-12, higher education, healthcare/hospital, and municipal). He is also a Civil Engineer Corps Officer in the US Navy Reserve and has in-depth experience working with federal agencies such as US Army Corps of Engineers, Veteran Affairs, and Naval Facilities Engineering Command (NAVFAC). Dustin will be supported in the field by Lead Construction Inspector Justin Wehling and Backup Construction Inspector Garrett Davis — experienced CM professionals knowledgeable of the complexities of large diameter, deep sewer and potable water pipeline construction. Our in-house capabilities will be supplemented by AIM Consulting, who will provide public outreach services; Contract Administrative Services, Inc. (CASI) who will provide labor compliance services; ENGEIO, who will provide materials testing and specialty inspection support; and O’Dell Engineering, who will provide quality assurance surveying services.

Each individual on our team can tout a long list of successfully completed water and transportation infrastructure improvement projects, including several that involve multiple regulatory, funding, and permitting agencies and in city streets, open space, and water crossings. Based on our review of the RFP, we understand we may be asked to include City staff as part of our team; however, as directed we did not build our staffing plan to account for this possibility.

**Our Qualifications are Solid**

The TRC team has the capabilities and experience to creatively bring your needed infrastructure improvements to realization. From pre-construction to construction, and through closeout, TRC delivers soundly engineered, well-constructed, and context-sensitive solutions to enhance safety and functional efficiency. We have successfully worked on 80 Caltrans contracts since the late 1980’s, as well as countless City and County public works improvement contracts. In addition, TRC has provided construction management services to the California Department of Water Resources (DWR) Division of Engineering since 2008. These statewide environmental enhancement projects have ranged from levees, dams, and canals to treatment facilities, large pipelines, access roads, pumping and power generation plants, and flood control facilities. Whether large or small, planned or emergency response projects—TRC has been there, and will continue to be there—to leverage our experience in construction management and inspection techniques to improve quality and efficiency of our client’s critical infrastructure.

**A Value-Added Approach**

While we demonstrate this combination of expertise and technical know-how throughout this proposal, you will see the distinction in our ability to foresee obstacles, work in a collaborative fashion, and provide creative solutions. These skills, learned from our previous work experience, will directly translate into cost-effective solutions and minimized risk to you. Our team’s experience is a perfect fit for the City’s project to install new sewer and water utilities to serve the proposed Veteran Affairs Community Based Outreach Clinic and Community Living Center currently under construction.

Our value-added approach meets a variety of project challenges and demonstrates our understanding of what is needed to successfully deliver projects that minimize public inconvenience, meet construction and materials standards, and achieves the City’s overall goals. Our entire team is committed to the Veterans Affairs Medical Facility project and looks forward to partnering with you.
Requirements and Contact Information

TRC has reviewed the RFP in its entirety and understands the terms of the City’s Standard Agreement including the insurance requirements noted in Exhibit B of the Standard Agreement (Pages 30-33 of this RFP), and have provided further comments regarding the Standard Agreement at the end of our proposal. Our Cost Proposal is provided in a separate, sealed envelope. We acknowledge receipt of Addendum Nos. 1 and 2, dated June 23, 2020 and July 9, 2020, respectively. This proposal is a binding offer to contract with the City of Stockton according to the requirements of this RFP for a period of one hundred and twenty (120) calendar days from the proposal due date.

As Vice President and Firm Principal, I am authorized to represent TRC in contractual issues. Lincoln Leaman will serve as Contract Manager and will also be TRC’s point of contact with the City of Stockton during the consultant selection process and the duration of the contract. Lincoln can be reached at: 183 D'Arcy Parkway, Lathrop, CA 95330; via phone at (916) 995-6572 or via email at LLeaman@trccompanies.com.

Respectfully submitted,

TRC ENGINEERS, INC.

Hank Doll, PE, QSD/P
Vice President and Regional Manager

Lincoln Leaman, PE, QSD/P
Vice President and Contract Manager
REQUEST FOR PROPOSAL
CONSTRUCTION MANAGEMENT SERVICES FOR THE VETERANS AFFAIRS
MEDICAL FACILITY OFF-SITE UTILITIES IMPROVEMENTS PROJECT
FOR THE CITY OF STOCKTON, CALIFORNIA
(PUR 19-041)

ADDENDUM No. 1
DATE: 6/23/20

To All Potential Bidders:

A. This Addendum shall be considered part of the proposal documents for the above-mentioned project as though it had been issued at the same time and shall be incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original bid documents, this Amendment shall govern and take precedence. PROONENTS MUST SIGN THE ADDENDUM AND SUBMIT IT WITH THEIR PROPOSALS.

B. Proponents are hereby notified that they shall make any necessary adjustments in their estimates as a result of this Addendum. It will be construed that each proponent's proposal is submitted with full knowledge of all modifications and supplemental data specified herein.

Item Number 1
Specifications, Page 11, Section 1.29 – Mandatory Pre-Proposal Conference

Please note the following changes and additions to Section 1.29 of the RFP for Construction Management Services for the VA Medical Facility Off-site Utilities Improvements Project (PUR19-041).

MANDATORY PRE-PROPOSAL CONFERENCE

A mandatory pre-proposal conference will be held on Friday, June 26, 2020, at 10:00 a.m. promptly at Room 166, SEB Building, 22 E. Weber Avenue, Stockton, CA 95202. Interested proponents arriving at 10:01 a.m. or later will not be admitted. Failure to attend will result in your proposal being rejected.

All proponents are encouraged to visit the project site prior to the pre-proposal conference.

In addition, the following health safety and social distancing protocols will be strictly adhered before and during the pre-proposal conference:

1. All attendees must wear face coverings or masks at all times during the pre-proposal conference.
2. All attendees must arrive at least 30 minutes prior to the start of the pre-proposal conference to allow for sign-in, and symptoms check.
3. All attendees will be asked to sanitize their hands before entering the room.
4. Limited seating is available. Thus, only one representative per engineering or construction management firm will be allowed. Seating will be arranged at least 6 feet between attendees.
Public parking at the building's parking garage will not be available. Please allow additional time to find parking in the street.

** END OF ADDENDUM 1**

BIDDER MUST ACKNOWLEDGE THIS AMENDMENT BY SIGNING BELOW AND ATTACHING THE SIGNED AMENDMENT TO THE BID FORM:

Company Name  TRC Engineers, Inc.

Contact Person  Hank Doll, PE, QSD/P

Signature  

Date  July 16, 2020

Bids Due – Promptly by 2:00 p.m., Thursday, July 16, 2020, City Clerk’s Office.

---------------------------------------------City of Stockton Use Only below this line---------------------------------------------

Addendum acknowledged and signed?  _______ (Procurement Specialist's initials)
REQUEST FOR PROPOSAL
CONSTRUCTION MANAGEMENT SERVICES FOR THE VETERANS AFFAIRS
MEDICAL FACILITY OFF-SITE UTILITIES IMPROVEMENTS PROJECT
FOR THE CITY OF STOCKTON, CALIFORNIA
(PUR 19-041)

ADDENDUM No. 2
DATE: 7/9/20

To All Potential Bidders:

A. This Addendum shall be considered part of the proposal documents for the above-mentioned project as though it had been issued at the same time and shall be incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original bid documents, this Amendment shall govern and take precedence. PROPONENTS MUST SIGN THE ADDENDUM AND SUBMIT IT WITH THEIR PROPOSALS.

B. Proponents are hereby notified that they shall make any necessary adjustments in their estimates as a result of this Addendum. It will be construed that each proponent's proposal is submitted with full knowledge of all modifications and supplemental data specified herein.

THE CITY’S RESPONSES TO QUESTIONS SUBMITTED ARE IN BLUE

Questions:

1. On Page 2 and 3 of the RFP, one (1) original and three (3) copies are requested. However, on Page 18 of the RFP, one (1) original and four (4) copies are requested. Please confirm the number of copies required.
   Submit one (1) ORIGINAL (unbound, no staples) and four (4) COPIES of the proposal documents. Additionally, submit one (1) thumb drive with an electronic version of the proposal.

2. What is the approximate advertise/bid date for construction?
   The City currently anticipates posting the construction advertisement/bid by the end of July or the first week of August. However, the schedule is dependent on the right-of-way/easement acquisition schedule.

3. Is the design engineer eligible to do construction management?
   Yes, the design engineer is eligible to do construction management so long as they conform with the licensing and registration requirements, and all the other requirements of the RFP.

4. Was a constructability review done?
   No. The design engineers had informal reviews with local contractors as to the constructability of the project.

5. Will Wolfe Road be closed during construction?
   Yes, Wolfe Road will be closed. There are detailed staging and traffic control plans for the project.
6. What are the soil conditions like?
   The Geotechnical Report is posted/added as Attachment 5 to the RFP.

7. Is the sewer RCP?
   The 42" sanitary sewer pipe is RCP, and the smaller diameter pipes are PVC.

8. Section 3.0: The proposal shall not exceed 20 double-sided pages using a
   minimum text font size of 10. Please clarify the number of sheets.
   The proposal shall be 20 double-sided pages of content on ten (10) sheets.

9. The Proponent's Checklist indicates that there is a Proponent's Fee Schedule
   form. However, it is not provided in the RFP or on the website. How can we
   obtain the form? Can you please provide the form?
   There is no prescribed form for the Proponent's Fee proposal. Please refer to
   Section 3.0.7 of the RFP.

10. The City's Procurement Division requests that proponents not include any
    valuation or cost with the $ sign on the body of the proposal. The only cost to be
    provided should be on the Fee Proposal, which will be in a separate cover as
    specified.

** END OF ADDENDUM 2**

BIDDER MUST ACKNOWLEDGE THIS AMENDMENT BY SIGNING BELOW AND
ATTACHING THE SIGNED AMENDMENT TO THE BID FORM:

Company Name  TRC Engineers, Inc.               
Contact Person  Hank Doll, PE, QSD/P             
Signature    
Date  July 16, 2020

Bids Due – Promptly by 2:00 p.m., Thursday, July 16, 2020, City Clerk's Office.

-----------------------------------------------------------------------------
Addendum acknowledged and signed? _______ (Procurement Specialist's initials)
Executive Summary

City of Stockton is embarking on an exciting journey to improve the offsite utilities extension to serve the Veterans Affairs Medical Facility. This project will require a “best in management” approach coupled with an integrated and experienced team to seamlessly deliver a technically sound, community-focused asset. The TRC Team stands ready to provide the City with a peace of mind in meeting budget, schedule, scope, and quality objectives for the Veterans Affairs Medical Facility Improvements Project.

If you remember just five key points from our proposal...

1. **COMMITMENT OF THE BEST PEOPLE**
The TRC Team offers federally funded experience on infrastructure improvement projects that is unmatched.

   **Contract Manager Lincoln Leaman, PE, QSD/P** has more than 28 years of experience in the planning, construction, and management of a broad range of capital improvement projects, including master planned developments, water-related (sewer lift stations and plant commissioning and decommissioning), transportation (bridges, highways, local streets, and streetscapes), recreation (parks), and underground utilities projects. His experience coupled with the leadership of our CM team will ensure the success of this project.

   22-year veteran engineer, **Dustin Rath, PE, GE, QSD/P**, has extensive experience with a wide-range of public improvement projects, including water/sewer, bridge and retaining structures, roadway/highway and infrastructure improvements. Dustin recently completed the a SMG tank and distribution pipeline project for the City of Lincoln. As **Project Manager/Resident Engineer**, he will be there to answer the critical questions and make sure that key issues don’t slip through the cracks.

   **Lead Construction Inspector Justin Wehling** brings 21 years of inspection and construction management experience. He has extensive experience with infrastructure projects including sewers, storm drains, potable water, reclaimed water, curbs & gutters, sidewalk and AC roadways, ADA compliance, and similar items on city capital improvement projects.

2. **SOLID REAL-WORLD EXPERIENCE**
The TRC Team is well-versed in the successful delivery of water distribution and sewer collection projects with similar scopes of work involving deep excavations, large diameter pipe, environmental compliance and restrictions, public relations, and staged construction. Our in-depth knowledge of open-cut, pipe jacking, and microtunnelling methodologies means that we can meet all of the Veterans Affairs Medical Facility Off-Site Utilities Improvements project’s needs.

3. **A VALUE-ADDED APPROACH**
Each team member can list numerous years of working on water and wastewater infrastructure improvement projects and is cross-trained to provide backup assistance to one another—affording the City economies of scale when it comes to staff redundancy. We will add value to each document we handle, and with each potential challenge we identify and mitigate.

4. **ADHERENCE TO PROJECT SCHEDULE**
Schedule and cost control are critical to any construction contract. By being proactive with constructability reviews; utility and stakeholder coordination; and the resolution of project issues—TRC keeps projects on schedule and budget.

5. **TECHNICAL KNOW-HOW**
We believe that the best risk control is early identification. We add value based on best practices learned from previous projects of similar scope and complexity. We turn project risks into opportunities.
Experience Qualifications Summary

River Islands Master Planned Development & Infrastructure Projects
City of Lathrop, California

Since 2008, TRC has been a trusted advisor, providing quality on-call construction support and staff augmentation services to the City of Lathrop on various contracts, including sewer line installations, utilities, pipe jacking, cathodic protection, lift stations, force mains, roadway/interchange work, and oversight of private developer site improvements.

The River Islands Master Planned Development project was initiated as Stage 1 (Stewart Road Extension), a backbone infrastructure project to serve the River Islands Technology School (opened fall 2013). The Stewart Road Extension and infrastructure project included 2 miles of arterial roadway extension and associated utility installations, including six jack and bore utility extensions under the UPRR, connection to a regional 30-inch-diameter domestic water transmission main, and large-scale site dewatering to install underground utilities.

Subsequently, Stages 1A and 1B were initiated to provide infrastructure for 1,498 single-family residential lots (sewer, domestic water, reclaimed water, storm drain, dry utilities, and landscaping). Relevant projects in this stage included:

- 1.5 MGD sewer lift station with SCADA controls and flushing station
- 2,500 feet of 30 – 36-inch sewer trunk line at a depth of 18 to 25 feet deep
- Over 2 miles of regional arterial roads with 8-inch gas transmission main through a 500-foot bridge
- 1.3 miles of overhead transmission line and substation
- Several hundred acres of commercial/retail sites
- Construction of seven new lakes

Stage 2A infrastructure, which is expected to be completed in 2020, installs wet and dry utilities for more than 1,100 single family dwelling residential lots and associated public amenities, including a variety of parks and a school site, and construction of 5 miles of 200-year certified levee construction. Mass grading, which was completed this spring, included over 3.5 million cubic yards of cut and the construction of two lakes. Relevant infrastructure in Stage 2A includes:

- 35,000 feet of new mainline sewer and water
- 15,000 feet of local drainage pipeline and inlet structures
- 10,000 feet of trunk sewer and storm drain lines
- 20,000 feet of domestic and reclaimed water distribution lines
- 10,000 feet of lake interconnect pipeline, lake fill line, and lake aeration line

Stage 2B infrastructure, which is expected to be completed in 2020, installs wet and dry utilities for more than 1,100 single family dwelling residential lots and associated public amenities, including a variety of parks and a school site, and construction of 5 miles of 200-year certified levee construction. Mass grading, which was completed this spring, included over 3.5 million cubic yards of cut and the construction of two lakes. Relevant infrastructure in Stage 2B includes:

- 35,000 feet of new mainline sewer and water
- 15,000 feet of local drainage pipeline and inlet structures
- 10,000 feet of trunk sewer and storm drain lines
- 20,000 feet of domestic and reclaimed water distribution lines
- 10,000 feet of lake interconnect pipeline, lake fill line, and lake aeration line

For nearly two decades, TRC has remained a reliable consultant to the City of Lathrop and has delivered services in a professional and a timely manner. Project Team Members include:

- Lincoln Leaman, Construction Manager, 50%
- Justin Wehling, Lead Construction Inspector, 75%
- Garret Davis, Construction Inspector, 50%

Project Highlights:

- Deep Sewer Trunk Line
- Lift Stations
- Dewatering
- Large Diameter Pipeline
- Utility Coordination
- Bypass Pumping
- El&C/SCADA
Aqueduct Energy Efficient Project (AEEP) - Reaches A-D/MSN B3
North Marin Water District (NMWD), California

TRC provided full construction management, administration and inspection services on the aqueduct pipeline expansion and relocation project. The Project relocated approximately 3 miles of 36-inch-diameter welded steel pipe aqueduct that serves over 80 percent of NMWD’s customers in Novato and other areas of Marin County, and relocated approximately 1,800 feet of 8-inch distribution line.

The existing 36-inch pipe was upsized to a 42-inch welded steel pipe, and relocated to accommodate the widening of US-101 through the Marin/Sonoma Narrows. This critical relocation project, which is a result of the Caltrans’ Marin Sonoma Narrows (MSN) project included:

- Two jack and bore crossings of Highway 101 and another of San Antonio Creek
- Four horizontal directional drilled crossings off of Highway 101
- Three connections with the existing aqueduct that required extensive coordination with District staff
- Extensive coordination with local businesses and residences, Caltrans, and environmental consultants

Tank #3 at Catta Verdera North
City of Lincoln, California

As part of the City of Lincoln’s existing on-call contract, TRC provided construction management and inspection services for this capital improvement project (CIP 377). The Tank #3 at Catta Verdera North provides an additional 5-million gallons (MG) of treated water storage to meet anticipated water demands. Construction included a 163-ft diameter by 39-ft tall pre-stressed concrete water reservoir to store treated water delivered to the City from Placer County Water Agency.

The overall project included:
- 5 MG concrete domestic water storage tank
- 1,000 lf of 16-inch-diameter domestic water pipeline
- 5,500 lf of 36-inch-diameter domestic water pipeline
- Connecting to the existing system at the future 36-inch pipeline and metering station
- Electrical instrumentation and controls
- Trail realignment
- Fencing
- Dirt generated from the tank site was used to fill the old City Pond Site and create eight residential lots for the adjacent neighborhood
- Grading for future 5 MG tank
- Redevelopment of existing pond site to merchant builder lots

Type: Pipeline
Size: 6,500 lf / 16-36-in-diameter pipeline
Project Highlights:
- Contract and Project Management
- Resident Engineering
- Construction Inspection
- Office Engineering
- CPM Schedule Review
- SWPPP Compliance Monitoring
- Contract Administration

TRC has been the preferred consultant to the City for nearly 20 years, and has successfully delivered services in a professional and a timely manner. Project Team Members include:
- Lincoln Leaman, PE, Contract/Project Manager, 25%
- Dustin Rath, PE, GE, Resident Engineer, 100 %
Moore Road Intersection and Sewer Trunk Line Extension
City of Lincoln, California

TRC has been providing on-call construction management and support services to the City of Lincoln since 2008. Projects have included roads, bridges, lift stations, force mains, full underground and overhead utilities, signals, lighting, landscaping, irrigation, pipe jacking, cathodic protection, and SWPPP monitoring.

As part of the City’s on-call contract, TRC provided inspection services on the Moore Road Reconstruction and Sewer Trunk line Extension Project. The Moore Road project, located in the Southwest corner of Lincoln, roughly a half mile west of the intersection of Sorrento Parkway and Ferrari Ranch Road, includes the realignment and reconstruction of Moore Road, conversion of the Sorrento Parkway intersection to a standard Tee intersection and the extension of underground utilities (Storm Drain, Water Transmission, and Sewer Trunk line).

The 3,400 linear feet of the 36-inch sewer trunk line extension was part of a regional project that reduced lift stations and provided a recycled water distribution line from the treatment plant. Installation methods included dewatering, deep shoring, and Controlled Low Strength material (CLSM) backfill to the greater of 2.5 times the pipe diameter or top of vertical trench, whichever was greater.

Chambers Drive Sewer/Nicolaus Road Pump Station Force Main Improvements
City of Lincoln, California

As part of the City of Lincoln’s on-call contract, TRC provided resident engineering and inspection services on this pump station improvements project that was part of a regional sewer and reclaimed water master plan for the City. Work involved the completion of a north to south sewer trunk line, decommissioning of two sewer lift stations, construction of a new force main connection, new and reconstructed manholes, upgrades to an existing sewer lift station, and roadway reconstruction. The project included:

- Installation of 600 lf of 30-inch vitrified clay pipe (VCP) gravity sewer line
- Installation of 40 lf of 36-inch Ductile Iron Pipe (DIP)
- Bypass and decommissioning of the Moore Road sewer lift station
- Bypass of the Waverly lift station and retrofit of the Nicolaus Road sewer lift station
- Construction of a new 18-inch-diameter force main on Waverly
- Diversion of 18-inch-diameter DIP force main in Chambers Drive

Type: Sewer Trunk Line
Size: 3,400 lf / 36-inch-diameter pipeline
Project Highlights:
- Sewer Trunk Line
- Dewatering
- Utility Coordination

For nearly two decades, TRC has been a reputable consultant to the City and has delivered services in a professional and a timely manner. Project Team Members include:
- Lincoln Leaman, Construction Manager, 100%

Type: Sewer Trunk Line, Force Mains, and Lift Stations
Size: 18-36-inch-diameter pipeline
Project Highlights:
- Lift Stations
- Force Mains
- Bypassing Pumping

TRC has been a long-time, reliable consultant to the City of Lincoln and completed this project well within the original 150-day contract duration. Project Team Members include:
- Lincoln Leaman, Resident Engineer, 100%
Management/Method of Operation

Project Understanding

The Veterans Affairs (VA) Medical Facility Off-Site Utilities Improvement Project will provide sanitary sewer and potable drinking water infrastructure to the proposed Veterans Affairs Medical Facility currently being constructed on Manthey Road near the intersection of Leo Giron Drive. Work includes extension of existing sanitary sewer by installation of a 42-inch pipe down Wolfe Road. This system continues through an adjacent walnut grove, along Yettner Road, and down Manthey Road by installation of 21-inch, 15-inch, and 12-inch pipes, respectively to the point of connection at the Medical Facility. Connection to the existing Weston Ranch Reservoir facility (water tanks) will be made by installation of 30-inch pipe to Yettner Road. This alignment continues along Yettner Road to Manthey Road in a 16-inch pipe until reaching the point of connection.

Additionally, a section of the 18-inch waterline will be installed on Wolfe Road near the intersection with French Camp Road to provide clearance for installation of new sanitary sewer manholes. The contractor has the option of installing portions of the new utilities by traditional open-cut, microtunnel, or jack-and-bore techniques. Restoration of streets will include reconstructing the pavement section and new striping.

Because this project involves a significant amount of impact to the public, the coordination component of the project is paramount. This coordination requires accurate planning and implementation on the part of the Contractor in order to minimize both the impact to the San Joaquin County General Hospital operations and public inconvenience.

Challenges and Approach to Solutions

The management of this work will require an experienced team that has worked on sewer collection and water distribution system infrastructure projects of similar size and complexity in the past. Our Project Manager/Resident Engineer, Dustin Rath, has experience and lessons learned from previous projects that will keep construction progressing smoothly, on time, and within budget.

We have identified potential construction challenges for this project, as well as approaches to mitigate their impact. Throughout each of the activities identified, we will have a full-time presence on-site that will monitor and document a daily report on the activities of the contractor relative to these and other issues that may arise during the course of construction.

Project Safety

Safety on a project can never be emphasized enough. We understand that every project has safety concerns, and items that stand out on this project include:

- Identifying and protecting existing utilities
- Trenching and shoring safety
- Traffic control and detours
- Traffic control and detours

At TRC, we are committed to providing superior safety performance and are confident that our safety culture, management, and oversight will allow for a working environment that identifies and eliminates unsafe conditions and allows each employee to return home safely every day.

Although the contractor is ultimately responsible for jobsite safety, TRC feels that safety is everyone’s responsibility to monitor the project for adherence to the safety requirements. This commitment to health and safety is a large part of our culture, which is why TRC’s Safety Division assigns a Safety Manager to periodically conduct safety inspections on our projects, at no additional cost to the City.

We believe maintaining safety is integral to performing the work correctly, not a separate activity that conflicts with production. We accomplish this by requiring daily pre-task planning meetings with all contractor and inspection staff. This provides an opportunity for all stakeholders to participate in proper planning, creating buy-in throughout the team. It also fosters “what-if” discussions that lead to contingency plans and anticipated communication moments in the day. The result of these
meetings is that all personnel are aware of the day’s hazards, goals, required/recommended PPE, safety or operational protocol to minimize hazards and triggers for communication or plan revision.

Utilities Coordination

Utility coordination is a key component to the success of any underground reconstruction project. The project team will need to maintain close and constant coordinate with PG&E gas and power groups. Since there is a gas line crossing the project alignment on Manthey Road just south of Yettner Road, the system will need to be accurately marked in order to prevent an accidental dig-in.

Because Underground Service Alert (USA) tickets expire after 3 weeks, TRC includes USA as an agenda item for weekly progress meetings and verifies that the contractor and any subcontractors excavating on the project have a unique and active USA ticket number(s). This promotes active monitoring of adjacent utilities and provides consistent protection for the Contractor and the City from an unmarked dig-in or expired ticket.

Existing PG&E overhead electrical lines present a significant hazard as they are located throughout the project alignment. The contractor will need to develop work plans that account for the required offset to prevent arcing and protocols to ensure they are followed. Some protocols that may be required are:

• Flagging overhead lines
• Barricading or bracing poles
• Relocating guy wires
• Shielding overhead lines that minimum offsets cannot be achieved
• Temporary shooflies or relocations of overhead lines
• Temporary shutdowns

We will work corroboratively with the contractor and PG&E to find the solutions that provide the least impact to residents, while progressing the work.

Coordination of Contractors

Our team will include a dedicated scheduler that will review each contractor’s baseline schedule and updates to verify that it meets the contract requirements and has all the appropriate logic for order of work, submittal review requirements, permit compliance and public notice. Our scheduler will also build and maintain an independent schedule that identifies and monitors the major activities of the Medical Facility project that could impact the City’s project. In particular, it will include logic that describes points of coordination between contractors and shows prerequisite activity and priority.

This combined schedule will provide security to the City and other project stakeholders in the form of a proactive approach to coordination issues and scheduling constraints between contractors. We will use this combined schedule in the weekly coordination meeting to communicate the status of the project and provide a launch point for discussions on how to avoid conflict and incompatible operations. One example is the coordinating of traffic control on Manthney Road, adjacent to the VA facility currently under construction. It is possible that both contractors could end up working in the same area at the same time. If not monitored and managed properly, this can create an undesirable situation.

Excavation, Shoring and Dewatering

Our team has extensive experience with deep excavation, shored trenches and large-scale dewatering projects, including recently completed 25’ deep trunk line sewer in sand with dewatering 15’ below natural groundwater elevation. Although water was not encountered during the geotechnical investigation, our experience with subsurface conditions and soils in this area indicate a good chance that groundwater is encountered during deep excavation activities. This project requires a team that has a strong understanding of soil mechanics, construction techniques, available equipment and safety regulations to verify that the contractor has developed a complete and workable plan for the excavation, pipe installation, backfill, and removal of shoring and dewatering wells.

Our team provides more than just the experience and expertise to review and verify that the contractor meets the contract requirements for material submittals, work plans, and safety protocol for the staff and the public. Our unique combination of field experience, geotechnical and civil engineering expertise and understanding of how the work is constructed allows us to better evaluate work plans beyond specification requirements. We are able to collaborate with the contractor to identify pinch points, constructability issues, and safety risks and find the optimum solution to those risks to schedule, budget and safety.
Traffic Control
Since a majority of the work will be located within the public right-of-way, traffic control can become a significant issue on this project.

TRC has extensive experience working in and around roadways and is very knowledgeable of traffic control measures. We are familiar with traffic management and will coordinate with the City of Stockton, San Joaquin County, and San Joaquin County General Hospital, as required, for the safe and convenient travel through the streets impacted by this construction. Once the traffic control has been set up as planned, we will walk/drive the alignment and detours to confirm that the signage is clear and easy to follow. If modifications are required, we will promptly work with the contractor to improve the traffic control measures. Throughout each shift, we will frequently confirm that all traffic control measures remain in place and that nothing has changed with regard to regulatory/safety measures. Effective long-term traffic control will be one of the most significant issues for this project.

Work along Wolfe Road will require full closure during installation of the new 42-inch trunk line. This will create a significant impact to local access and emergency services. The contractor’s plan and procedures will require 100% plating of open trenches within the public right-of-way when not actively working in them, protective fencing around open excavations, temporary fencing in areas that existing fencing is damaged or removed for access, and a plan to create immediate access for emergency services personnel and equipment.

Traffic control may create access and operations impacts to the San Joaquin County General Hospital and emergency service providers (fire, police, EMS). It is imperative that work does not preclude access to the Emergency Room driveway or first responder access to local streets. Our construction management team and AIM, our public outreach subconsultant, will work proactively with the hospital staff and other emergency service providers to provide advanced notice of construction activities, verify directional signage is installed and maintained correctly, and provide weekly updates on construction progress, as applicable.

Being a good neighbor means minimizing the impacts and surprises to neighbors during construction and operations. This is accomplished through outreach and coordination during project design, finding ways to minimize traffic impacts, and following through during construction to make the project as invisible as possible to neighbors.

Our Public Outreach Specialists from AIM Consulting will implement a stakeholder outreach plan before and during construction that sets expectations about what to expect during construction; keeps stakeholders informed on the construction progress; and provides a point of contact.

Impacts to the Public
TRC and AIM have partnered on many projects throughout the Sacramento and Central Valley, including an award-winning project with many of the same elements as the City’s VA Medical Facility Off-Site Utilities Improvements Project. AIM will be an active participant in our weekly coordination meetings, so they have a complete understanding of the status of the project, critical activities, and impact to the public. AIM’s strong understanding of the work and highly skilled staff will produce a variety of outreach tools, in multiple languages, in order to deliver concise and targeted information to residents and businesses. These touch points will keep the local residents informed on traffic control impacts, temporary shutdowns, safety protocols and a general understanding of what we are doing and why. Maintaining a consistent level of communication with appropriate level of detail across multiple delivery channels and languages creates an inclusive relationship with our neighbors, builds trust and minimizes negative interactions.
Detailed Approach & Construction Management (CM) Plan

TRC has a tried and true approach to successful project delivery that defines the process for project development, project financing, environmental approval, contracting for design, standards for design, and for project bidding and construction. We understand the ins and outs of tracking work and separating information needed for auditing, pay estimates, and materials testing. With our clients in mind, our CM policies and procedures meet the requirements of multiple federal agencies, ensuring that your funding is never at risk.

CONSTRUCTION MANAGEMENT/PROJECT MANAGEMENT PLAN (CMP/PMP)

Dustin Rath will prepare the Construction Management Plan/Project Management Plan (CMP/PMP) to communicate understanding of each task as the team begins work, and to set the course for monitoring project progress. The CMP/PMP is our roadmap for proactive and responsive scope, risk and cost control. Lincoln will use these procedures and modify them according to the City’s project needs in order to deliver a successful project.

Key elements of our management approach include the following:

Communication. Our plan to meet your expectations of good communications between the City, San Joaquin County, Veteran Affairs, USACE, San Joaquin County General Hospital, the public, Contractor, permitting agencies, and the TRC team is straightforward: communicate frequently and with purpose. We promote this by employing status emails and progress reports.

Cost Control. As your CM team, one of our primary functions is to track project costs versus construction progress. We will also perform “look-aheads” for potential cost overruns. Our team will review the contractor’s schedule of values, progress payment requests, change order cost proposals, and claim requests and submit progress reports to apprise the City of the project cost to-date.

QA/QC. TRC’s commitment to quality is one of our core values. It is ingrained in our company culture. Our Quality Management Program is based on the ISO 9001:2015 set of standards and its seven management principles, including utilizing Standard Operating Procedures (SOPs), mandatory peer reviews, internal auditing protocols, and other ongoing process improvement strategies to improve the efficiency and effectiveness of our work. While our primary goal is to do it right the first time, our QA/QC plan helps make sure that any non-conformances and deficiencies are identified, documented, corrected, and do not reoccur.

Cost Reporting. We routinely manage projects for both state and local agencies with multiple funding sources and have developed systems that not only manage these multiple funding sources, but do so in full compliance with the Federal Acquisition Regulations (FAR) guidelines. We are aware there are different protocols for managing and reporting disbursements and expenditures of these sources, and our systems can segregate and track the funds all the way down to the item level.

Schedule Control. Our team will proactively monitor and manage project schedules. The contractor’s initial construction schedule is the City’s most important tool for monitoring work, preventing delays, developing workaround solutions when problems arise, and determining progress payments. At the start of the project, we will review the contractor’s initial schedule for conformance with contract requirements, logic of construction, phasing sequence, milestone achievement, and ability to avoid conflicts. Once approved, the schedule will be used to monitor the progress of work.

Risk Mitigation. Construction projects are risk-filled ventures influenced by many factors, including competency of the successful bidder, geotechnical unknowns and unforeseen conditions, safety performance, and potential claims and conflicts to name a few. Although risk cannot be totally eliminated, it can be managed and mitigated. Our team brings experience, procedures, tools and knowledge together to proactively manage the City’s risks during construction.

Claims Management. A partnering relationship with the contractor is critical to minimizing change orders and potential claims. Our team uses a comprehensive process to track and negotiate all changes with the contractor, including making sure the change order complies with the contract documents, and that the cost to the owner is minimized. All unresolved issues will go through the dispute resolution process.

Good Neighbor Plan. TRC employs a proactive strategy of educating the adjacent schools and neighborhoods surrounding the project sites on the planned and ongoing construction activity, including work hours, and traffic patterns for construction. Part of this strategy includes coordinating with buses, trash, police, fire, and other utilities. Our plan also includes deployment methods for mitigating dust, noise, odor, and light impacts during and post construction.
FIELD MANAGEMENT APPROACH

The TRC Team consists of engineers, inspectors, and specialists who have the experience and expertise to deliver your projects as a direct extension to your Department of Public Works team. They are all very familiar with working in a full-time agency environment, delivering civil and structural infrastructure projects and monitoring/directing contractors in conformance with the contract. They are adept at promptly addressing worker and public safety, SWPPP and stakeholder concerns, while using Caltrans, City, and County Standards and the project contract, to enforce schedule and control cost.

Our approach includes providing pre-construction support and advice to the City and its designer, to assist in identification of potential construction alternatives that can reduce schedule and cost. “Project First” Partnering following Caltrans’ LAPM methods and procedures will be used to facilitate a team approach to the construction of improvements. The TRC Team coordinates directly between the City, designer, special inspectors, QA/QC laboratories, contractors, private utility companies, and public stakeholders during construction of each project. This allows for rapid and clear responses that conform to the approved contract documents and/or designer’s approval, reducing and eliminating contractor delays and claims.

Safety: Safety is the first and highest priority to our approach at TRC. We are committed to providing superior safety performance, management, and oversight that allows for a working environment that identifies and eliminates unsafe conditions, and allows each employee to return home safely every day. This includes conducting pre-task meetings that include a Job Hazard Analysis (JHA). This commitment to health and safety is why TRC’s Safety Division assigns a Safety Manager to periodically conduct Safety Inspections on our projects, at no additional cost to the City of Stockton.

Meetings and Reports: We will administer initial pre-construction and weekly project meetings, providing weekly summary reports for each project. These summaries will be delivered to the City on Monday mornings before 8am and include the prior week’s construction activities; key items of work or concern; and a projection of the following week’s scheduled activities. Our team is committed to provide a monthly summary report, highlighting key or outstanding issues, schedule status, budget, payments, claims, RFI/ Submittal status, and change orders. We will review and approve contractor payment applications.

_procore:_ Procore is a cloud-based construction management software that TRC utilizes to manage our projects. With this web-based platform, TRC can manage our projects in real time, while providing full accessibility to all project team members, including designers, contractors, and subconsultants. This allows for increased project efficiency and accountability while streamlining and mobilizing project communications and documentation. TRC utilizes the program to track and manage all aspects of a project from RFIs and submittals to progress payments and change orders. This allows our clients to have full access to all aspects of a project providing real time information on project status both from a time and financial perspective. One of the key features of Procore is the mobility aspect. Procore users can access project data through any web-enabled device. This allows our inspectors to input daily reports and project photographs in real time, allowing all team members to see each day’s progress as it is happening.

In addition, there are a variety of collaborative features within the program that allow us, as construction and program administrators, the ability to manage project oversight to keep the project on-time and budget all while providing a centralized location for all project information.

Inspector Daily Reports (IDR): Prior to leaving each project site, IDRs are prepared for each visit. These IDRs document field conditions, safety and weather conditions, contractor activities, equipment, and workforce; materials deliveries/quantities, etc. IDRs are provided to the engineer for initial review, with key issues brought to the resident engineer’s attention for review, distribution, and response. Utilizing Procore, reports are completed in real time throughout the day and are available at any time.

Construction Logs: Logs are maintained as living documents throughout each project to document and track status and disposition of RFIs, submittals, and materials QA/ QC sampling, testing, and data, throughout construction for each project. These logs document item designation, description, receipt date, actions to be performed and by whom, progress, and final acceptance or rejection. All items are reviewed for conformance to the contract documents and/or City standards. will use the City’s preferred construction filing structure or, Caltrans structure if the City does not have a standard to maintain sets of these and other crucial project documentation/records. This system will be maintained by our resident engineer.

CPM Scheduling Reports: Our reports will describe the critical path methodologies such as the critical submittals, deliveries— as well as the permitting and safety standards required in the projects. The work structure will be outline in the CPM as well as work acceptance of the projects per RFP. Monthly updates will be stipulated in the contract and requirement of a 3-week look-ahead schedule submitted weekly to the Owner. This will analyze/evaluate the overall project as job moves towards approved completion.

Delays: Once the project shows a delay, we at TRC will evaluate cause impacts and require the contractor to submit a TIA – Time Impact Analysis for review and evaluation with the project team. TRC may also require the contractor to submit a resource-loading activities report to ensure that the labor resources are consistent with overall planned workforce stipulated in their Schedule of Value by bid item.
Change Orders: Our team will analyze potential change orders for validity, cost, and schedule impacts. We will then review and provide information supported suggestions to the City Engineer, regarding our change order analysis, to allow for the City Engineer’s negotiations. Using the City’s existing formats, we will draft and distribute change orders for City processing, if requested.

PUBLIC OUTREACH APPROACH
AIM Consulting will develop and maintain a consistent level of public communication with the goal of establishing public awareness and understanding of the project. AIM will use multiple methods of communication to build awareness and provide accessible project information throughout the project’s duration. In addition to providing up-to-date information, AIM will answer all public questions in a timely manner.

AIM will establish several communication methods for building and maintaining public awareness including:
• Signage
• Traditional Media Relations
• Electronic and Social media – project webpage, e-blasts, Facebook, Twitter
• Outreach to and partnering with key stakeholders

AIM will closely coordinate with the City’s Public Information Officer to assure accurate, timely information is distributed in an efficient and effective manner.

Outreach Management and Coordination: AIM will attend a project kick-off meeting and regular construction contract coordination meetings with the project team as necessary. Other project management tasks may include providing strategic advice and counsel, attending other project-related meetings, coordinating with the City Project Manager and the City’s PIO, monitoring team communications, and reviewing project materials and reports.

Project Brand/Logo: In coordination with the City and project team, AIM will develop a project brand and logo to be used on all project materials, such as the project website, social media platforms, flyers, and all other print and digital collateral used throughout the project.

Stakeholder Database Development: AIM will develop and maintain a stakeholder database throughout the project’s duration. This database will include: stakeholder name, contact information as well as the preferred method of contact and potential key concerns and/or areas of project interest. AIM will work with the City and the Construction Manager to identify targeted audiences and will use experience from past projects to identify key contacts.

Monthly Email Newsletters: AIM will utilize the project stakeholder database to send monthly project update emails and construction notices throughout the project’s duration.

Social Media Updates & Coordination: AIM will work with the City to post project-specific information and traffic alerts to existing social media channels (City Twitter and Facebook pages). These posts can include infographics and short video clips, which can help communicate timely construction information to a broad audience. AIM will partner with key stakeholders to send information through social media channels.

Community Workshop: AIM will coordinate logistics for and facilitate one community workshop at the start of the project and will serve as an introduction to the project. The workshop is intended to notify the community about the project, its purpose and need, and schedule. The workshop can be held virtually through Zoom or another browser-based online meeting platform if needed. Number of community workshops: 1

Stakeholder Presentations/Updates: Based upon the potential impacts to residents and businesses in the nearby vicinity, AIM and members of the project team will meet with key stakeholders to discuss the upcoming construction schedule and answer any questions. At these meetings, we will provide an overview of the project, including the construction schedule and potential construction methods, discuss project benefits, and identify potential impacts to property owners. It is important to engage and collaborate early in the process with the impacted property owners and keep them informed at key milestones throughout the process. These meetings may take place at regularly scheduled community association meetings, or may be held one-on-one with affected property owners. Anticipated number of meetings: 4

Media Coordination: Working with the City’s PIO, AIM will develop and distribute media kits, news releases, and traffic advisories for all local and regional media outlets to publicize the construction process. In addition, AIM will follow up with specific local media to assure traffic advisories and special events are publicized and will respond to any media requests for further information.

Project Webpage Content: AIM will develop content for a project webpage, to be hosted on the City’s website, and will prepare accurate and timely updates to inform users of important project information and events throughout the project. Users will be able to access project information, such as fact sheets, FAQ’s, project map, and schedule, as well as notifications of upcoming delays, detours and/or road closures. Users of the site can provide their contact information to receive electronic project updates and e-mail traffic alerts. In addition, a dedicated “contact us” e-mail address will be created for users to provide their input, comments, and questions. All inquiries will be documented, logged, and responded to within 24 hours.
**Collateral Materials:** Brochures, Fact Sheets, Fliers, and/or Door Hanger Notifications can be issued to educate the community about the project, advertise all activities and meetings, and provide notification of upcoming construction events. AIM will develop all materials utilizing a template consistent with the project brand, which can be easily updated, printed and/or distributed through electronic means, and placed on the project webpage.

**Direct Mail Piece:** AIM will design and develop one direct mail piece to notify key stakeholders, property owners, business owners and residents about the upcoming community workshop and construction activities. The direct mail pieces will include information about the project, date, time and location of the workshop. AIM will provide a map of the area where the mailer will be sent, and the City will provide a list of addresses. AIM will coordinate the printing and mailing of the direct mail piece. The City will be responsible for all fees related to printing, postage, and obtaining mailing addresses for direct mail notifications.

**Number of direct mail pieces: 1**

**Work Plan**

*The following scope of work/work plan details for all construction activities. This scope is based on lessons learned from past water and transportation infrastructure projects we’ve managed and will be specifically tailored to meet the needs of the VA Medical Facility Off-Site Utilities Improvements Project.*

**TASK 1. PRE-CONSTRUCTION**

**Task 1.1 – Plan Preparation and Constructability Review**

Our experienced project team will review the construction documents for constructability, continuity, and completeness prior to issue for construction bid in order to reduce possible safety hazards, potential claims, cost and schedule overages, and unnecessary RFIs. Our findings will be provided to the City and designer. To provide a “road map” for our team, we will develop a construction management plan for review and approval by the City prior to the start of work. This plan will provide direction on deliverables and timelines for reports and will include administrative and inspection/regulatory/QA tasks throughout the duration of the project. Additionally, we will review the City’s quality assurance plan and make recommendations for updates/changes specific to the project.

**Task 1.2 – Pre-Construction Conference**

Dustin will schedule, coordinate, and conduct one pre-construction conference that outlines project specifics, establishes roles and responsibilities, and informs the team of overall project administrative procedures. An agenda will be prepared in advance to notify attendees of key items for discussion. We will prepare and distribute meeting notes to attendees within 10 days of the conference.

**Task 1.3 – Document Control**

We will utilize Procore, the documentation system for organizing, tracking, filing, and managing paper/electronic correspondence in accordance with the City of Stockton requirements. Project documents will be created, stored and maintained in Procore for the duration of the project.

**Deliverables:**

- Procore System
- Agenda/Meeting Minutes

**TASK 2. CONSTRUCTION PHASE**

**Task 2.1 – Construction Manager/Resident Engineer**

Construction Manager Dustin will be responsible for the overall performance of the CM team, while Lead Inspector CM Justin Wehling will manage the activities of the field inspection. Justin will also manage and enforce that the project is being constructed properly and in accordance with the Contract Plans, Special Provisions, Caltrans Standards, City Standards, and County Standards. This will minimize the City’s exposure and ensures that the City is reimbursed for federal funds.

**Task 2.2 – On-Site Quality Assurance/Control Inspection**

We will inspect and check the contractor’s quality control procedures against the contract documents to confirm that the work performed is in compliance, and of acceptable quality. Observations will be documented in a daily report that is sufficiently detailed to document project conditions and actual production rates. Photographs will be obtained to document existing conditions, work activities and progress. We will work with contractor to address all non-conformance issues will be logged and tracked automatically in Procore, with tagging to specification or plans sheet pages and a resolution report. Dustin will provide internal quality control reviews to verify we are following our approved procedures and support our team.

**Task 2.3 – Communications/Public Relations**

Public Outreach Specialists Gladys Cornell and Nicole Porter will prepare a project-specific public information plan to establish project protocols, communications, and procedures for the project team. In addition, Gladys and Nicole, serving on an administrative level, and Dustin and Justin in the field role will serve as focal points for communication and coordination between all stakeholders including City of Stockton, Contractor, Designer, the public, Veteran Affairs, USAEC, San Joaquin County, PG&E, San Joaquin County General Hospital, other permitting and regulatory agencies, as well as any other party involved with the project. AIM Consulting will field questions, provide progress updates, perform outreach, deal with any crisis communications, and escalate concerns to the City of Stockton accordingly.
Task 2.4 – Meetings
Dustin and Justin will conduct weekly meetings to discuss schedule, current, and past issues, and maintain open communications between team members. In addition, we will conduct environmental coordination and safety meetings to ensure compliance and prevent violations and fines.

Task 2.5 – Safety Management
Dustin and Justin will review and monitor the contractor’s safety program to verify implementation in accordance with the submitted contractor safety program and industry standards. Any deficiencies identified on the site will be immediately brought to the attention of the contractor’s safety representative. In situations of imminent danger, we will immediately take steps to correct the situation.

Task 2.6 – Traffic Management
Dustin and Justin will coordinate, process, and obtain approval for lane closure requests through the City, and monitor the contractor’s traffic plan to ensure there are no conflicts with other adjacent projects.

Task 2.7 – Special Provisions Compliance/Storm Water Pollution Prevention
Dustin and Justin will monitor contractor compliance with Division 1 and Special Provision specifications including mitigation commitments, wildlife protection and environmental permits, discharge permits, Storm Water Pollution Prevention (SWPPP) requirements, and erosion and sedimentation control requirements. Compliance monitoring includes contractor’s noise, traffic, and other mitigation plans.

Task 2.8 – Materials Testing/Source Inspection/
Geotechnical Support/QA Surveying
We will schedule and manage work with the team from ENGEO—our materials testing laboratory. We will coordinate timely testing and reporting, and prepare a project-specific Materials Sampling, Acceptance, and Independent Assurance (IA) Testing Plan in accordance with the City’s Quality Assurance Plan (QAP), the project’s plans, special provisions, and the Caltrans Standard Specifications. In addition, we will provide plant inspection, sampling and acceptance testing at the required frequency in accordance with the applicable California Test Method (CTM), and provide test results/reports in a timely manner. In addition, TRC’s QA/QC and Geotechnical Specialist, Dustin Rath PE, GE is available to provide as-needed geotechnical support and submittal review.

O’Dell Engineering will perform QA surveying to ensure proper field staking and for as-built location of major underground components such as valves and fittings.

Task 2.9 – Labor Compliance
CASl will monitor project records and verify adherence to labor compliance and EEO provisions. In addition, we will monitor and document that DBE commitments are being met in accordance with Federal-Aid procedures. Any non-compliance with labor requirements will be discussed with the City and sent back to the contractor for correction.

Task 2.10 – Progress Payments
Dustin will evaluate the contractor’s monthly progress payment requests and recommend payment by the City if requirements are met. We will compare requested quantities to the actual quantities completed and negotiate the appropriate progress payment request with the contractor.

Task 2.11 – Construction Schedule
Dustin and Scheduling Analyst George Escano will monitor the construction schedule weekly, including updates and revisions, in accordance with the contract documents. He will notify parties of actual or potential deviations from schedule, and work with the project team to get back on track.

Task 2.12 – Change Orders
Dustin will review potential change orders for contractual and technical merit, and prepare independent cost estimate and schedule analysis of work. His review will include input from appropriate support staff for schedule, technical review and material testing results. He will negotiate and prepare change orders for execution, and keep the City apprised of impact of cumulative change orders.

Task 2.13 – Cost Control
Dustin will monitor project funding and project budgets. He will review contract item payments, material quantities, and change order payments, and serve as an early warning system of potential funding problems.

Task 2.14 – Potential Claims/Dispute Resolution
Dustin and Justin will assist in the resolution of disputes by identifying potential claims issues, reviewing claims for merit, making recommendations, and implementing procedures to reduce the likelihood of disputes and claims.

Task 2.15 – Monthly Status Reports
Dustin will prepare monthly reports highlighting project progress, CCOs, cost issues, and schedule to keep all parties informed on project status.

**Deliverables:**
- Agenda/Meeting Minutes
- Construction Management Plan (CMP)
- Daily Inspection Reports/Photography/Documentation Files
- Lab Testing Results/Reports
- Safety Reports
- Certified Payroll/DBE Utilization Forms
- Progress Reports
  (schedule, cost, claims, change orders, etc.)
TASK 3. POST-CONSTRUCTION

Task 3.1 – As-Built Drawings
We will collect, review, and transmit contractor’s data to engineer. We will make sure that all changes are incorporated into the record drawings.

Task 3.2 – Final Walkthrough
Dustin and Justin will make final inspections, prepare punch list, and verify the required certificates of compliance and as-built drawings have been delivered.

Task 3.3 – Project Completion Reports and Closeout
Dustin and Justin will process final progress payment to contractor, and file Notice of Completion. Lincoln will prepare the final report; deliver project records to the City; and prepare reports in accordance with the Local Assistance Procedures Manual. Additionally, Lincoln will compile a compliance report of the project design, construction, and operations with the avoidance, minimization, and mitigation measures, and certify that the results of the tests on acceptance samples indicate that the materials incorporated in the work were in conformity with the approved plans and specifications.

COVID-19 SAFETY PROCEDURES
The safety and health of our employees and their families, clients, subcontractors, and the public is of paramount importance to TRC. Due to the COVID-19 virus and its associated unprecedented challenges to our nation and the City of Modesto, TRC has initiated elevated safety guidelines for our employees while they perform their essential services. These measures are consistent with COVID-19 Guidance: Phased in Process for Restarting Construction Projects (March 30, 2020) and TRC’s own Health and Safety Management System which details a compliance program on Pandemic Preparedness with associated field guidance for project teams (available upon request).

These TRC guidance documents are consistent with best practices of the CDC, W.H.O., US Department of State, and various local sources. With COVID-19 expected to return during the fall/winter of 2020, the TRC’s CM team is ready to implement strategies to limit risk and exposure. TRC’s COVID-19 Safety Plan elements built in:

- Symptoms and warning signs for self-diagnosis
- Managing employee’s return to work
- Materials delivery best practices
- Hygiene and social distancing procedures
- Exposure response plan

Deliverables:
- Data for Record Drawings
- Punchlist
- Final Progress Payment
- Notice of Completion Final Report
- Environmental Commitment Final Report
- Material Certification Report

Industry-leading sanitization compliance certification
Comprehensive job-site hygiene
Social distancing planning & verification
PPE requirements and robust supply chain
Communications, job-site training and logistics coordination (e.g. deliveries)
COVID-19 Exposure Response Plan
## References and Experience Summary

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<th>CLIENT/AGENCY’S CONTACT PERSON</th>
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| City of Lathrop                | River Islands Master Planned Development and Infrastructure Projects                             | Construction Management | • Lincoln Leaman, *Construction Manager*  
• Justin Wehling, *Lead Construction Inspector*  
• Garrett Davis, *Construction Inspector*  
• Zachary Crawford, *Project Manager - Materials Testing*  
• Trenton Hayes, *Construction Services Manager - Materials Testing* | 2012 to Current         |
| Glenn Gebhardt                 | Services Provided:  
• Construction Management  
• Inspection                                                          |                         |                                                                                                                                                                                                                                                                                         |                  |
| ggebhardt@ci.lathrop.ca.us     |                                                                                                 |                         |                                                                                                                                                                                                                                                                                         |                  |
| (209) 941-7292                 |                                                                                                 |                         |                                                                                                                                                                                                                                                                                         |                  |
| City of Lincoln                | AEEP - Reaches A-D/MSN B3                                                                       | Construction Management | • Dustin Rath, *Project Manager*                                                                                                  | 2015 to 2016     |
| Ray Leftwich                   | Services Provided:  
• Construction Management                                                          |                         |                                                                                                                                                                                                                                                                                         |                  |
| rleftwich@lincolnca.gov        |                                                                                                 |                         |                                                                                                                                                                                                                                                                                         |                  |
| (916) 434-2457                 |                                                                                                 |                         |                                                                                                                                                                                                                                                                                         |                  |
| North Marin Water District     | Tank #3 at Catta Verdera North                                                                 | Construction Management | • Lincoln Leaman, *Contract/Project Manager*  
• Dustin Rath, *Resident Engineer*  
• Lincoln Leaman, *Construction Manager*  
• Lincoln Leaman, *Resident Engineer*  
• Gladys Cornell, *Public Outreach Specialist*  
• Nicole Porter, *Public Outreach Specialist* | 2019 to 2020         |
| Drew McIntyre                  | Moore Road Intersection and Sewer Trunk Line Extension                                           | Construction Management |                                                                                                                                                                                                                                                                                         | 2014 to 2015     |
| dm McIntyre@nmwd.com           | Services Provided:  
• Construction Management  
• Inspection                                                          |                         |                                                                                                                                                                                                                                                                                         | 5/2015 to 9/2015 |
| (415) 897-4133                 |                                                                                                 |                         |                                                                                                                                                                                                                                                                                         |                  |
| City of Lincoln                | Chambers Drive Sewer/Nicolaus Road Pump Station Force Main Improvements                         | Construction Management |                                                                                                                                                                                                                                                                                         |                  |
| Ray Leftwich                   | Services Provided:  
• Resident Engineering  
• Inspection                                                          |                         |                                                                                                                                                                                                                                                                                         |                  |
| rleftwich@lincolnca.gov        |                                                                                                 |                         |                                                                                                                                                                                                                                                                                         |                  |
| (916) 434-2457                 |                                                                                                 |                         |                                                                                                                                                                                                                                                                                         |                  |
Corporate Structure, Organization

The TRC team is well-versed in the successful delivery of public works infrastructure construction and reconstruction projects with similar scopes of work as the VA Medical Facility Off-Site Utilities Improvement Project. Our team brings the ideal combination of local presence and knowledge, expertise, and practical experience implementing proven best practices. We have summarized the qualifications, experience, and the roles and responsibilities of our proposed team. Representative experience, including resumes for all staff, are provided in the subsequent sections.

Organizational Chart

The following organization chart outlines the structure of our proposed team, and their roles and respective responsibilities. TRC will not substitute team members without City approval.
Representative Experience

**TRC ENGINEERS — YOUR VALUE-ADDED CONSULTANT**

TRC’s value to the City of Stockton stems from our ability to bring the best people, practices, and lessons learned from more than 50 years of experience providing engineering, construction management, environmental review and compliance, community engagement and outreach, and funding administration and grant writing services for a wide range of infrastructure improvements. Our professional staff has been responsible for some of the largest public works improvement projects in California. We bring the right resources to provide the services and qualified staff to meet the City’s needs and offer value-added services to be a true partner to the agency.

With a team of more than 6,000 employees in 140 offices worldwide, TRC provides full services throughout the project life cycle—planning, designing, and building infrastructure for the communities in which we live and work. From planning and design through pre-construction and construction closeout, TRC delivers soundly engineered, well-constructed, and context-sensitive solutions to enhance safety and functional efficiency. Our team is well-versed in the successful delivery of water/wastewater, bridges and roadways, and stormwater projects that meet stringent contract requirements and tight timetables.

**Services We Provide**

TRC has played a major role in the building of critical infrastructure, providing turnkey services for transportation, water, power, flood control, storm drainage, and facilities projects with a total construction value in the billions. Our services span multiple categories, all under one roof, including the following:

- Planning
- CM and Inspection
- Field Services
- Engineering/Owner’s Engineering
- Procurement and Operations
- Program Management and Specialized Consulting
- Environmental, Health & Safety Management
- Regulatory and Environmental Compliance
- Remediation & Materials Management
- Emergency Management and Response
- Staff Augmentation
- Storm Water Programs/Planning/Training

**Markets We Serve**

- Power & Utilities
- Oil, Gas & Industrials
- Transportation
- Real Estate
- Government
- Water

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**TRC AT-A-GLANCE**

**Legal Name:** TRC Engineers, Inc.

**Type of Organization:** C-Corporation

**Firm Established:** 1969 (51 Years in Business)

**Firm Headquarters:** 650 Suffolk Street
Lowell, MA 01854

**Number of Employees:** 6,382

**Parent Company Name:** TRC Companies, Inc.

**Number of Offices:** 140
(throughout U.S., Canada, United Kingdom, and China)

**California Office Locations:** 21 office Locations

**Primary Contact:** Lincoln Leaman, PE, QSD/P - Vice President Tel: 916-562-2033 | Cell: 916-995-6572
Email: LLeaman@trccompanies.com

**Facilities and Workforce of Offices Performing Work:** 47*

*With the support of more than 400+ California registered engineers, inspectors, technicians and administrative support in 21 offices throughout the state.

**Office Performing Work:** 183 D’Arcy Parkway,
Lathorp, CA 95207

**Firm Officers/Principals:**

- Chris Vincze - CEO/Chairman
- Hank Doll, PE - Vice President/Regional Manager, Northern California and Colorado
- Rany Chek, PE - Vice President/Regional Manager, Bay Area/Central Coast
- Ed Durazo, CCM - Vice President/Regional Manager, Southern California
SUPPLEMENTING OUR TEAM

TRC’s reputation for superior engineering services has been built on a legacy of excellence, quality, and client satisfaction. To better meet your needs, we have supplemented our team with technical experts in the fields of public outreach, labor compliance and office engineering, materials testing and sampling, and surveying services.

**AIM Consulting, Inc. — Public Outreach**

Founded in 2005, AIM Consulting is a communications and public outreach firm that specializes in transportation, transit, water, wastewater, and land use projects to public and private clients throughout Northern California. With strong partnerships with public agencies, private businesses, community-based organizations, and advocacy groups, AIM has in-depth experience in the development and implementation of communication strategies. AIM Consulting is a California Certified SBE/DBE firm.

**CASI, Inc. — Labor Compliance**

Founded in 2016, Contract Administrative Services, Inc. (CASI) specializes in assisting local agencies, state agencies, and consultants with verifying labor compliance requirements and providing construction administration support services, including labor compliance verification with State and Federal requirements. CASI’s goal is to provide thorough and accurate labor compliance services, including conducting regular on-site EEO employee interviews, verification of minimum base rate and fringe benefits requirements, overtime policies and rules, and apprenticeship requirements and rates. CASI is a California Certified DBE firm.

**ENGEIO, Inc. — Materials Testing and Sampling**

ENGEIO is an award-winning, employee-owned California Corporation of more than 300 geotechnical and civil engineers, geologists, environmental scientists, water resources experts, field representatives, laboratory testing specialists, and supporting staff, serving clients in California and abroad for nearly 50 years. ENGEIO has served many iconic and highly visible projects with complex engineering and geologic challenges such as compressible soil, expansive soil, unstable terrain, landslides, and seismic hazards.

**O’Dell Engineering, Inc. — Surveying**

O’Dell Engineering is a multi-discipline design firm located in Northern California. With offices in Modesto, Fresno, Palo Alto, and Pleasanton, we are able to efficiently serve our clients throughout the Central Valley, San Joaquin Valley, San Francisco Bay Area, and Greater Sacramento Area. Established in 1994 by Randall O’Dell, the firm provides an array of professional design and planning services including civil engineering, land surveying, landscape architecture, and land use entitlement & land planning. We consistently satisfy our customers by providing high quality deliverables, superior coordination, and timely project completion. Repeat clients are testimonies to the high value we place on client satisfaction.
Project Team Summary & Resumes

HANK DOLL, PE, QSD/P  
Principal-In-Charge
Hank has 34 years of experience in the construction industry. Mr. Doll served in the U.S. Navy for eight years during which time he was involved with the Submarine QA/QC program responsible for writing QA packages. His portfolio includes construction management services for a wide range of transportation improvements, including bridges, highways and roadways, buildings, rail and rail platforms, tunnels, drainage system, and other appurtenant structures and facilities. Dustin has provided engineering and construction management services for a broad range of public works improvements, including pipeline projects; expertise in dewatering, deep excavation, in-street sewer/water rehabilitation, SWPPP expertise, and in-depth knowledge of the Construction General Permit. As a Geotechnical Engineer, Dustin has extensive experience providing geotechnical oversight and expertise for ground-related work, including horizontal directional drilling (HDD), trenching, compaction, groundwater intrusion, Dustin has provided engineering and construction management services for a broad range of public works improvements, including water distribution and sewer collection pipeline projects. He brings first-hand knowledge of the latest technologies, processes, and methods used to construct pipeline projects; expertise in dewatering, deep excavation, in-street sewer/water rehabilitation, SWPPP expertise, and in-depth knowledge of the Construction General Permit. As a Geotechnical Engineer, Dustin has extensive experience providing geotechnical oversight and expertise for ground-related work, including horizontal directional drilling (HDD), trenching, compaction, groundwater intrusion, and deep foundations. Dustin will be the resident engineer, responsible for all pre-construction, construction and postconstruction activities. He will supervise the planning, coordination, and implementation of construction work; enforcing that construction complies with the project plans, specifications, and permits; monitoring safety compliance; and supporting field personnel. Additionally, Dustin will be responsible for submittal and RFI review, progress payment processing for the contractor, materials testing coordination, writing and processing project change orders, evaluation of extra work and coordination, performing quality control audits and reviews, as well as serve as a technical resource for the team particularly on any subsurface and geotechnical engineering matters.

DUSTIN RATH, PE, GE, QSD/P  
Project Manager/Resident Engineer
Dustin has provided engineering and construction management services for a broad range of public works improvements, including pipe rehabilitation and replacement projects. He brings first-hand knowledge of the latest technologies, processes, and methods used to construct pipeline projects; expertise in dewatering, deep excavation, in-street sewer/water rehabilitation, SWPPP expertise, and in-depth knowledge of the Construction General Permit. As a Geotechnical Engineer, Dustin has extensive experience providing geotechnical oversight and expertise for ground-related work, including horizontal directional drilling (HDD), trenching, compaction, groundwater intrusion, Dustin has provided engineering and construction management services for a broad range of public works improvements, including water distribution and sewer collection pipeline projects. He brings first-hand knowledge of the latest technologies, processes, and methods used to construct pipeline projects; expertise in dewatering, deep excavation, in-street sewer/water rehabilitation, SWPPP expertise, and in-depth knowledge of the Construction General Permit. As a Geotechnical Engineer, Dustin has extensive experience providing geotechnical oversight and expertise for ground-related work, including horizontal directional drilling (HDD), trenching, compaction, groundwater intrusion, and deep foundations.

LINCOLN LEAMAN, PE, QSD/P  
Contract Manager
Lincoln will serve as contract manager responsible for the overall performance of the construction management team. He will be the primary contact with the City of Stockton, and will proactively and routinely meet with City staff on contract related issues; monitor the CM budget, manage TRC staff and subconsultants, and confirm that TRC provides quality service within the approved contract budget.

JUSTIN WEHLING
Lead Construction Inspector
Justin is an experienced supervising construction inspector with extensive experience performing and managing the inspection of high-profile projects in the City right-of-way. He has inspected and observed multiple crews on multiple sites for projects involving all aspects of city infrastructure, including sewers, storm drains, potable water, reclaimed water, curbs and gutters, sidewalk and AC roadways, ADA compliance, and similar items on city capital improvement projects, developer projects, and Caltrans projects. Justin will be responsible for day-to-day field construction activities; monitoring safety compliance; and enforcing that construction complies with the project plans, specifications, and permits, and City of Stockton and San Joaquin County standards.

HANK DOLL, PE, QSD/P  
Principal-In-Charge
Hank has 34 years of experience in the construction industry. Mr. Doll served in the U.S. Navy for eight years during which time he was involved with the Submarine QA/QC program responsible for writing QA packages. His portfolio includes construction management services for a wide range of transportation improvements, including bridges, highways and roadways, buildings, rail and rail platforms, tunnels, drainage system, and other appurtenant structures and facilities. Dustin will be responsible for submittal and RFI review, progress payment processing for the contractor, materials testing coordination, writing and processing project change orders, evaluation of extra work and coordination, performing quality control audits and reviews, as well as serve as a technical resource for the team particularly on any subsurface and geotechnical engineering matters.
Construction Management Services for the Veterans Affairs Medical Facility
Off-Site Utilities Improvements Project, M20026/PUR 19-041

GLADYS CORNELL
Public Outreach Specialist
Gladys is a veteran public information and outreach specialist that has provided public engagement and information, media relations, and strategic communications services with an emphasis on transportation and land-use projects. She has provided public information oversight and served as the public information manager for multiple construction management projects in Northern California, including the award-winning City of Lincoln - Chambers Drive and Nicolaus Road Sewer Improvements.

Gladys will be responsible for public information and notification oversight, outreach management and coordination, stakeholder identification, community meeting facilitation, review of communication collateral, and direct mail pieces.

NICOLE PORTER
Public Outreach Specialist
Nicole is an experienced public engagement specialist that specializes in strategic communication and community relations. She assists clients with creating content for project branding, collateral materials, social media content, and interactive online engagement tools for public information and community engagement. Nicole also manages and coordinates meetings with local businesses and other stakeholders near the construction area, pre-construction open houses, and informational videos at key construction milestones.

Nicole will assist Gladys with public outreach activities. She will be responsible for assisting with stakeholder identification, community meeting coordination and logistics, project website and social media content development, and public information and notification.

GARRETT DAVIS
Backup Construction Inspector
Garrett is an experienced construction inspector for public works and infrastructure projects. Prior to being an inspector, Garrett served as a foreman and project engineer for a large regional heavy civil contractor and has in-depth experience with roadway, pipeline, and development projects. Garrett has worked on several projects that include pavement restoration/rehabilitation, ADA ramp reconstruction, storm drain rehabilitation, and park construction. Recently, Garrett provided construction inspection for the City of Lathrop River Islands project that included the installation of wet and dry utilities for over 1,000 single family residential lots and a middle school.

Garrett will fill in as a backup inspector, but will be responsible for day-to-day field construction activities; monitoring safety compliance; and enforcing that construction complies with the project plans, specifications, and permits, and City of Stockton and San Joaquin County standards.

GEORGE ESCANO
Scheduling Analyst
George is an experienced project controls specialist specializing in CPM scheduling and management of a wide range of transportation and capital improvement projects. He is experienced in preparing baseline schedules with cost and resource loading schedules analysis; updated schedules and re-sequencing of work activities and conceptual schedules; and developing detailed work breakdown structure in Primavera/MS Project. His experience also includes claim preparation and time-impact analysis using Claim Digger, which he uses to compare baselines with updated schedules and provide equitable time and cost entitlement to the overall project. He has performed estimated quantity reporting using the Earned Value Methodology and Critical Path Method total float methodology. He is proficient in using Primavera P6, Microsoft Project, Schedule Analyzer Pro, and several other schedule analysis software to create cost and scheduling integration.

George will be responsible for the CPM scheduling aspects of the project.
Construction Management Services for the Veterans Affairs Medical Facility
Off-Site Utilities Improvements Project, M20026/PUR 19-041

MADELEINE SALABER
Labor Compliance Officer
Madeleine brings extensive experience in labor compliance and administrative services for local agency construction projects. She has a strong background in business, business management, contract administration and labor related issues. Her expertise includes labor verification, construction administration support, and document control. Madeleine has provided labor compliance and administrative services for several city and county clients throughout Northern California.

Madeleine will be responsible for the labor compliance aspects of the project.

ZACHARY CRAWFORD, CEG
Materials Testing & Sampling Specialist
Zac specializes in construction support, engineering geology, environmental consultation, hydrogeology and geomorphology. He has extensive knowledge of the Central Valley region and its complex geology and hydrogeology. His experience includes managing and supporting the City of Lathorp River Islands project. Zac has worked on many complex projects throughout Northern California including installation of groundwater monitoring well networks, review and analysis of groundwater level and water quality data, and providing geologic hazards analyses and defining mitigation measures for the treatment of potentially unstable soils.

Zac will be responsible for the materials testing and sampling aspects of the project.

DYLAN CRAWFORD, PLS
Surveyor
Dylan has 24 years of surveying experience in the public sector. His experience includes on-call surveying for public agencies, numerous design surveys, right-of-way engineering, surveying, and staking of large-scale construction projects, subdivision mapping, boundary retracement and establishment surveys, resolution of land title issues, and topographic surveying.

Dylan will be responsible for the QA surveying aspects of the project.

STEVEN HARRIS, GE, QSD
Materials Testing & Sampling Specialist
Steve brings extensive experience in geotechnical consultation, project management, SWPPP and construction management services for transportation projects, large mixed-use developments, commercial developments, flood control, water infrastructure, and educational facilities throughout Northern California. He has been the lead geotechnical consultant on hundreds of projects that have collectively included millions of cubic yards of earth work. Steve has performed various computer modeling analyses for slope stability, liquefaction, seepage, settlement, retaining walls, pavement, and deep foundations for projects in the Bay Area and Central Valley.

Steve will be responsible for the materials testing and sampling aspects of the project.

MADELEINE SALABER
Labor Compliance Officer
Madeleine brings extensive experience in labor compliance and administrative services for local agency construction projects. She has a strong background in business, business management, contract administration and labor related issues. Her expertise includes labor verification, construction administration support, and document control. Madeleine has provided labor compliance and administrative services for several city and county clients throughout Northern California.

Madeleine will be responsible for the labor compliance aspects of the project.

ZACHARY CRAWFORD, CEG
Materials Testing & Sampling Specialist
Zac specializes in construction support, engineering geology, environmental consultation, hydrogeology and geomorphology. He has extensive knowledge of the Central Valley region and its complex geology and hydrogeology. His experience includes managing and supporting the City of Lathorp River Islands project. Zac has worked on many complex projects throughout Northern California including installation of groundwater monitoring well networks, review and analysis of groundwater level and water quality data, and providing geologic hazards analyses and defining mitigation measures for the treatment of potentially unstable soils.

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STEVEN HARRIS, GE, QSD
Materials Testing & Sampling Specialist
Steve brings extensive experience in geotechnical consultation, project management, SWPPP and construction management services for transportation projects, large mixed-use developments, commercial developments, flood control, water infrastructure, and educational facilities throughout Northern California. He has been the lead geotechnical consultant on hundreds of projects that have collectively included millions of cubic yards of earth work. Steve has performed various computer modeling analyses for slope stability, liquefaction, seepage, settlement, retaining walls, pavement, and deep foundations for projects in the Bay Area and Central Valley.

Steve will be responsible for the materials testing and sampling aspects of the project.
Mr. Doll has 34 years of experience in the construction industry. As the former President of Vali Cooper & Associates, he now serves as Vice President, California Bridges, for TRC’s Construction Services West practice and the Colorado Region. He is a former resident engineer and structures representative with the California Department of Transportation (Caltrans). Mr. Doll served in the U.S. Navy for eight years during which time he was involved with the Submarine QA/QC program responsible for writing QA packages. His portfolio includes construction management services for a wide range of transportation improvements, including bridges, highways and roadways, buildings, rail and rail platforms, tunnels, sound and retaining walls, drainage system, and other appurtenant structures and facilities. He is an expert in constructability review at various levels of design completion and a technical specialist on the subject of falsework and prestressing. Mr. Doll is well versed in the construction practices of Caltrans and has an excellent command of the agency’s Standard Plans and Specifications, Construction Manual, Bridge and Structures Construction Manuals, and Local Assistance Procedures Manual; and local agency standards and requirements pertaining to highway safety standards.

Over the past 16 years, Mr. Doll has served as subconsultant contract manager for several multi-term on-call construction management and inspection services for Caltrans Districts 3, 9, 10 and 59. He has also served as the consultant contract manager for many local agencies, including the Counties of El Dorado, Placer, Sutter and Sacramento and the Cities of Stockton, Sacramento, Elk Grove and Chico, for multiple term contracts. He is experienced in coordinating services with Caltrans contract and project-related staff; monitoring and providing daily direction to construction management teams and inspectors; managing subconsultants; assigning staff to task orders; administering personnel actions; maintaining project files; developing, organizing, and facilitating scheduled coordination meetings and preparing and distributing meeting minutes; implementing and maintaining quality control procedures to manage conflicts, ensure product accuracy, and identify critical reviews and milestones; overseeing that all safety measures are in place, including project- specific safety plans; providing invoices in a timely manner; and providing monthly contract expenditures.

**REPRESENTATIVE EXPERIENCE**

**City of Sacramento, Sacramento Valley Station-Historic Sacramento Depot, Renovation Phase 2 – Sacramento, CA**

**Role: Construction Manager and Owner’s Representative | Duration 09/2014 – 11/2017**

Mr. Doll served as construction manager/owner’s representative for the $36.9M CMAR-GMP project, which involved the complex renovation of the historic American Renaissance-style train depot as a world-class transit hub with leasable office and retail space, a rooftop terrace, and patio space. Services included construction management, materials testing and special inspections, facilitation of GMP contractor proposal negotiations, and oversight and management of the executed construction contract. The project involved an extensive remodel of the historical building using Design Assist and GMP delivery method. Prior to construction, responsible for extensive review of project documents and consulting with the designers, the contractor, and City staff to optimize risk, schedule, scope and costs in the best interest of the City and its major tenant, Amtrak. During construction,
Hank Doll, PE, QSD/P

responsible for coordinating all aspects of the construction of the project; reviewing submittals and RFIs; processing the contractor's progress payments; coordinating materials testing and special inspection; writing and processing project change orders; evaluating extra work and coordinating with the contractor, City Departments, and Amtrak. All documentation followed City, state, and federal standards. The project was partially funded under a federal grant. **Project Award:** 2017 Construction Management Achievement Award, CMAA (Sacramento Chapter).

**San Joaquin Regional Rail Commission, Altamont Commuter Express Maintenance Facility – Stockton, CA**

*Role: Principal-In-Charge | Duration 01/2014 – 12/2016*

Mr. Doll served as principal-in-charge of construction of the 60M maintenance facility located on a 64-acre site in Stockton. The project included the installation of 19,000 feet of storage tracks and three 30-ton capacity overhead cranes all made possible via federal, state and local funding. The facility handles repair, maintenance, cleaning and overnight storage of passenger cars and locomotives used by the ACE service and future rail service expansions. The new maintenance facility will enable ACE to repair railcars faster, increase equipment availability, and decrease unproductive and time-consuming switching of equipment across UPRR tracks. Responsible for overseeing the provision of electrical and mechanical inspections.

**City of Lincoln, State Route 65 Gap Closure/Joiner Parkway Overcrossing – Lincoln, CA**

*Role: Contract Manager | Duration 04/2003 – 10/2005*

Mr. Doll served as contract manager for the $5.25M two-part, high profile Caltrans oversight project, which was funded by the City of Lincoln, Federal Highway Administration, Union Pacific Railroad (UPRR), and local developers. The project widened State Route 65 to four lanes, widened a T-intersection, added a southbound and two northbound lanes, provided several right and left turn lanes, constructed a new frontage road and median, added road shoulders and improved traffic signals. Work on the four-span, cast-in-place, pre-stressed box girder bridge Joiner Parkway Overcrossing involved extensive utility work, including a 42-inch water transmission main, two 12-inch water lines, and sanitary sewers and storm drains. Project challenges included coordinating work with adjacent projects and UPRR operations, managing traffic control, protecting existing utilities, jacking reinforced-concrete pipe beneath the roadway and railroad tracks, enforcing storm water pollution prevention requirements, monitoring 6-foot-diameter CIDH piles and the contractor's welding plan, and establishing and maintaining relationships with local residents and businesses. Responsible for participating in a formal partnering session; performing a constructability review; scheduling; contract administration; inspection oversight under Caltrans requirements; coordinating surveying and materials testing; approving the contractor's pay requests; maintaining project records and as-builts; performing project closeout services; and coordinating with UPRR/local developers. **Project Awards:** 2009 Tranny Interchange Project of the Year, California Transportation Foundation; 2009 Transportation Project of the Year, American Public Works Association, Sacramento Chapter.

**City of Elk Grove, Grant Line Road/State Route 99 Interchange Reconstruction – Elk Grove, CA**

*Role: Contract Manager | Duration 01/2009 – 12/2011*

Mr. Doll served as contract manager for the $27M replacement of the overcrossing with a two-span, cast-in-place, post-tensioned concrete box girder bridge constructed in two stages to maintain overpass traffic. The new structure carries eight lanes of vehicular traffic plus sidewalks, shoulders, and a concrete median. Work included the construction of six two-lane on/off ramps; various utility relocations and improvements; and significant coordination with multiple agencies, including Sacramento County Sewer and Water, Caltrans, the U.S. Army Corps of Engineers, Regional Water Quality Control Board, Sacramento Municipal Utility District, and various utilities. The project was constructed in accordance with Caltrans standard specifications and plans. Responsible for contract administration; scheduling, and construction activity oversight. **Project Awards:** 2009 Tranny Interchange Project of the Year, California Transportation Foundation; 2009 Transportation Project of the Year, American Public Works Association, Sacramento Chapter.
Lincoln Leaman, PE, QSD/P  
Contract Manager

Mr. Leaman has 28 years of experience in the planning, construction, and management of a broad range of capital improvement projects, including master planned developments, water-related (sewer lift stations and plant commissioning and decommissioning; transportation (bridges, highways, local streets, and streetscapes), recreation (parks), and underground utilities projects. Mr. Leaman has served as project manager, resident engineer, and structures representative responsible for leading teams of varying sizes. Many of his projects have included new or innovative uses of construction materials and techniques. He has demonstrated expertise in identifying critical elements to keep projects on schedule and constructed within budget. Mr. Leaman is an excellent relationship builder with strong negotiation skills in both public and private arenas. He is well versed in a variety of project management, accounting and estimating software applications.

Since 2012, Mr. Leaman has managed on-call construction management and inspection services contracts with the City of Modesto, City of Elk Grove, City of Folsom, City of Lathrop, City of Lincoln, El Dorado Irrigation District, County of Placer, County of Sacramento, Sacramento Municipal Utility District (SMUD), and private clients with a total construction value of over $575 million. As the project manager for those on-call contracts, Mr. Leaman successfully managed high profile projects, including bridges, roads (new and reconstructed), dams, levees, pipelines, parks, pump stations, electric and gas transmission systems and railroads, including three award-winning projects.

**REPRESENTATIVE PROJECT EXPERIENCE**

**City of Lathrop, River Islands Master Planned Development and Infrastructure Project – Lathrop, CA**

*Role: Construction Manager | Duration: 8/2012 – Current*

Mr. Leaman serves as construction manager for the $250 million River Islands master planned development project. He is responsible for QA for the City of Lathrop, verifying that the contractors use approved materials and methods for the work they are performing; and verifying that materials are installed to correct line and grade. The Procore application is being used for all field documentation and communication activities, including mobile entry of diaries, upload of photos, processing of and access to submittals, viewing and redlining plans, creating and maintaining punch-lists, email and document storage and documentation of issues.

The project was initiated as Stage 1 (Stewart Road Extension), a backbone infrastructure project to serve the River Islands Technology School (opened fall 2013). The Stewart Road extension and infrastructure project involved the construction of 2 miles of arterial roadway; and the installation of associated utilities, including six jack and bore utility extensions under the UPRR, connection to a regional 30-inch-diameter domestic water transmission main, and large-scale site dewatering for the installation of underground utilities. Subsequently,

- **Stage 1A** was initiated to provide infrastructure for 1,498 single-family residential units.
Stage 1B included a sewer lift station with SCADA controls and flushing station; 2,500 feet of 30-inch-diameter sewer trunk line; more than 2 miles of regional arterial roads; construction of seven new lakes; and infrastructure for 1,077 single family residential lots (sewer, domestic water, reclaimed water, storm drain, dry utilities, and landscaping).

Stage 2A infrastructure includes the installation of wet and dry utilities for 1,043 single family dwelling residential lots, including 30,000 feet of new mainline sewer and water; 10,000 feet of trunk sewer and storm drain lines; 20,000 feet of domestic and reclaimed water distribution lines; 10,000 feet of lake interconnect pipeline, lake fill line, and lake aeration line; and construction of 20,000 feet of local drainage pipeline and inlet structures.

Stage 2B infrastructure includes the installation of wet and dry utilities for 1,100 single family dwelling residential lots, a variety of parks and a school site, and 5 miles of 200-year certified levee construction. Additional utilities include: 35,000 feet of new mainline sewer and water; 15,000 feet of local drainage pipeline and inlet structures; 10,000 feet of trunk sewer and storm drain lines; 20,000 feet of domestic and reclaimed water distribution lines; and 10,000 feet of lake interconnect pipeline, lake fill line, and lake aeration lines.

City of Lincoln, Chambers Drive Sewer/Nicolaus Road Pump Station FM Improvements – Lincoln, CA
Role: Resident Engineer / Duration: 5/2015 – 9/2015
Mr. Leaman served as resident engineer for the $1.5 million construction of the pump station improvements, which was part of a regional sewer and reclaimed water master plan for the City of Lincoln. Responsible for developing several value engineering initiatives that resulted in fewer system shutdowns, eliminated on-grade diversion systems that had a high spill risk, and a simpler system at completion, and minimized public impacts. Work involved the completion of a north to south sewer trunk line, decommissioning of two sewer lift stations, construction of a new force main connection, and upgrades to an existing sewer lift station, and roadway reconstruction.

City of Lincoln, Moore Road Reconstruction and Trunk Line Sewer Extension – Lincoln, CA
Role: Construction Manager / Duration: 5/2014 – 5/2015
Mr. Leaman served as construction manager for the $3 million realignment and reconstruction of Moore Road, which is located in the southwest corner of the City of Lincoln roughly 0.5 miles west of the intersection of Sorrento Parkway and Ferrari Ranch Road. The project included conversion of the Sorrento Parkway intersection to a standard Tee intersection and the extension of underground utilities (storm drain, water transmission, and sewer trunk line). The 3,400 LF of 36-inch-diameter sewer trunk line extension was part of a regional project that reduced lift stations and provided a recycled water distribution line from the treatment plant. Installation methods include dewatering, deep shoring and controlled low strength material (CLSM) backfill to the greater of 2.5 x the pipe diameter or top of vertical trench, whichever was greater.
Mr. Rath has 22 years of providing engineering and construction management services for a wide range of public works projects, including roadway improvements and utilities upgrades. As a Geotechnical Engineer, Mr. Rath has extensive experience providing geotechnical oversight and input for ground conditions, including horizontal directional drilling (HDD), trenching, settlement, groundwater intrusion, deep foundations, landslide mitigation, and compaction. He has a strong understanding of the Caltrans Standard Plans and Standard Specifications and contract administration in accordance with the Caltrans Construction Manual and Local Assistance Procedures Manual.

Mr. Rath is experienced in all aspects of field and office construction engineering work, including inspection of non-structural construction operations, traffic control system compliance, contract change order preparation, and SWPPP compliance monitoring and enforcement. He is capable of reviewing, inspecting, and approving traffic control systems, including lane closures. Mr. Rath is knowledgeable and experienced in equipment used in construction inspection, surveying, field testing of construction materials, and construction office engineering. He has a good working knowledge of computer software programs; critical path method (CPM) software; and the Storm Water Pollution Prevention Program and the Construction General Permit.

**REPRESENTATIVE EXPERIENCE**

**Ross Valley Sanitation District, Magnolia Trunk line Rehabilitation – Larkspur, CA**

*Role: Project Representative | Duration: 11/2014 – 06/2015*

Mr. Rath served as the City of Larkspur’s owner’s representative during the rehabilitation of existing gravity sanitary sewer pipeline serving the community of Larkspur. Rehabilitation methods included open-cut removal and replacement, pipe bursting, and cured-in-place-pipe (CIPP). The project also involved sanitary sewer manhole rehabilitation and replacement, lateral replacements, pavement restoration, traffic control, and public outreach.

**North Marin Water District, Aqueduct Energy Efficiency Project Reaches A-D/MSN B3 – Sonoma and Marin Counties, CA**

*Role: Project Manager | Duration: 11/2014 – 06/2015*

Mr. Rath served as project manager for the $12.5 million pipeline expansion and relocation project, which includes the installation of 3 miles of 42-inch-diameter welded steel water pipe and 2,000 feet of 36-inch-diameter welded steel water pipe along Highway 101 between Novato and Petaluma. The project includes four horizontal directional drilled (HDD) crossings of Highway 101 for service lines; two jack and bore crossings of Highway 101 for the crossing of the 42-inch-diameter pipe; and a jack and bore crossing under San Antonio Creek.
City of Lincoln, Tank #3 at Catta Verdera North – Lincoln, CA  
**Role: Resident Engineer | Duration: 03/2019 – 12/2019**

Mr. Rath served as resident engineer for the $10 million Tank #3 at Catta Verdera North project that provides the City with an additional 5-million gallons of treated water storage to meet anticipated water demands. Funding for the tank project is from the Water PFE Fund #715, the 12 Bridges AD 95-1 and Fund 711, Water Capital Replacement. Project work includes: construction of a 120-ft diameter by 35-ft tall pre-stressed concrete water reservoir; connecting to the existing system at the 30-inch pipeline and metering station; 1,000-foot 16-inch diameter pipeline; 5,500-ft 36-inch diameter pipeline; electrical instrumentation and controls; fencing and trail restoration; and 18” stub for future connection to Bickford Ranch.

City of Orinda, Miner Road Emergency Sinkhole Repair – Orinda, CA  
**Role: Resident Engineer | Duration: 01/2017 – 08/2017**

Mr. Rath served as resident engineer on the $1.3M project. Project involved emergency removal and replacement of a failed 84-inch-diameter CMP culvert, rubble head and end walls with CIP concrete walls, and a 7-foot-high by 16-foot-wide concrete box culvert. The project also involved the installation of a creek diversion, including an upstream sandbag cofferdam and two 48-inch-diameter temporary culverts to maintain flow around the project site. Multiple utilities within Miner Road required restoration and/or support during construction, including a 16-inch-diameter EBMUD waterline, 6-inch-diameter PG&E gas line, and two CCCSD sewer lines. Ancillary improvements included new hot mix asphalt roadway, rock slope protection along the creek banks, cut-off walls, channel grading, new drainage inlets, roadway barriers, and mitigation planting. The project required extensive coordination with permitting agencies, utility providers, and adjacent property owners.

Ross Valley Sanitation District, FY 2014/2015 Pipeline Replacement – Larkspur, CA  
**Role: Project Manager | Duration: 05/2015 – 11/2017**

Mr. Rath served as project manager for construction management support for rehabilitation of 20,000 feet of existing sanitary sewer pipeline. Rehabilitation methods included open-cut removal and replacement, pipe bursting, and cured-in-place-pipe (CIPP) methods. The project also involved sanitary sewer manhole rehabilitation and replacement, lateral replacements, pavement restoration, and traffic control.

City of Larkspur, Rose Garden Infill Development – Larkspur, CA  
**Role: Project Coordinator | Duration: 11/2014 – 08/2015**

Mr. Rath served as Project Coordinator on the project. Dustin provided oversight and inspection of the Rose Garden Development in the City of Larkspur. The project consisted of development of 85 residential units and six secondary units on an approximately 17-acre site. As part of the development agreement, an approximately 2.5-acre community site was sheet graded and deeded to the City. Duties included serving as the City’s liaison with the developer (project facilitator), inspecting underground utilities, grading, flatwork, paving, micro-surfacing, striping, final inspection, and recommendation for acceptance of the project. Off-site work for the project included a new signalized intersection and approximately 4,000 LF sewer upgrades to increase capacity. Upgrade work consisted of CIPP lining, pipe bursting, and open cut replacement.
Justin Wehling
Lead Construction Inspector

Mr. Wehling has 21 years of experience working as an accomplished construction inspector and manager. He has strong communication skills (both written and oral), works well independently and in a team atmosphere. Justin can effectively manage multiple projects at any given time. He has inspected and observed multiple crews on multiple sites for projects involving all aspects of city infrastructure, such as sewers, storm drains, potable water, reclaimed water, curbs & gutters, sidewalk and AC roadways, ADA compliance, and similar items on city capital improvement projects, developer projects, and Caltrans projects. Mr. Wehling has extensive experience communicating with State inspectors, Caltrans inspectors, City inspectors and project superintendents/management. His peers rate him highly for his technical knowledge and communication skills.

REPRESENTATIVE EXPERIENCE

City of Lathrop, River Islands Master Planned Development and Infrastructure Project – Lathrop, CA

Role: Lead Construction Inspector | Duration: 11/2015 – Current

Mr. Wehling serves as lead construction inspector responsible for the day-to-day oversight of field operations and inspection for Phases 1B, 2A, 2B, and the completion of Bradshaw’s Crossing Bridge as part of the $350 million River Islands Master Planned Development Project. Responsible for field inspection, managing contract change orders, coordinating with utilities owners, reviewing contract submittals and RFIs, and generating monthly progress quantities.

- **Stage 1B** included a sewer lift station with SCADA controls and flushing station; 2,500 feet of 30-inch-diameter sewer trunk line; more than 2 miles of regional arterial roads; construction of seven new lakes; and infrastructure for 1,077 single family residential lots (sewer, domestic water, reclaimed water, storm drain, dry utilities, and landscaping).

- **Stage 2A** infrastructure includes the installation of wet and dry utilities for 1,043 single family dwelling residential lots, including 30,000 feet of new mainline sewer and water; 10,000 feet of trunk sewer and storm drain lines; 20,000 feet of domestic and reclaimed water distribution lines; 10,000 feet of lake interconnect pipeline, lake fill line, and lake aeration line; and construction of 20,000 feet of local drainage pipeline and inlet structures.

- **Stage 2B** infrastructure includes the installation of wet and dry utilities for 1,100 single family dwelling residential lots, a variety of parks and a school site, and 5 miles of 200-year certified levee construction. Additional utilities include: 35,000 feet of new mainline sewer and water; 15,000 feet of local drainage pipeline and inlet structures; 10,000 feet of trunk sewer and storm drain lines; 20,000 feet of domestic and reclaimed water distribution lines; and 10,000 feet of lake interconnect pipeline, lake fill line, and lake aeration lines.
City of Modesto, Standiford Avenue Pavement Rehabilitation – Modesto, CA

Role: Construction Inspector | Duration: 06/2018 – 08/2019

Mr. Wehling served as construction inspector on this $2.68 million pavement rehabilitation which starts at Dale Road proceeding east to Sherwood Avenue which is approximately 3-miles. Project includes roadway resurfacing/reconstruction, new signage and striping, ADA upgrades, storm drainage system improvements, and signal upgrades. Mr. Wehling was responsible for monitoring the contractor’s work for conformance to plans and specifications, documenting the progress of the work with daily reports and photographs, coordinating and scheduling materials testing services, submitting regular progress reports, attending construction meetings, monitoring contract change order work in the field, reviewing and logging material test results and addressing nonconforming tests, and coordinating and conducting final inspections.

City of Modesto, Lakewood Neighborhood Street Improvements – Modesto, CA

Role: Supervising Construction Inspector | Duration: 06/2018 – 08/2019

Mr. Wehling served as a supervising construction inspector on this $2.3 million roadway improvement project that rehabilitated deteriorated pavement with an asphalt rubber cape seal within the Lakewood Neighborhood (area bordering Scenic Drive, Eastridge Drive, Laramie Drive and Lillian Drive). This project also included 89 curb ramp improvements to bring area into ADA compliance and safety improvements around Lakewood Elementary School. Responsibilities included QC inspection, preparation of daily reports, equipment/material tracking, field documentation, coordination of material testing and sampling, verifying the contractor’s work schedule, schedule monitoring for contractor, oversight of contractor’s safety measures, and traffic control.

City of Lincoln, Development and Capital Improvements Inspection – Lincoln, CA

Role: Construction Inspector | Duration: 06/2013 – 07/2020

Mr. Wehling served as construction inspector responsible for monitoring the contractor’s work for conformance to plans and specifications, documenting the progress of the work with daily reports and photographs, coordinating and scheduling materials testing services, submitting regular progress reports, attending construction meetings, monitoring contract change order work in the field, reviewing and logging material test results and addressing nonconforming tests, and coordinating and conducting final inspections. Projects included the following: Twelve Bridges Middle School, Middle School Park, and High School; Safeway Fuel Station; Lowes Commercial; AT&T Installation of Communication and Video Cable; Gateway Highway 65 Widening; Del Webb Development Infrastructure; Lincoln Crossing Development Infrastructure; Sterling Point Commercial; Lincoln Gateway Commercial; and Lincoln Village Commercial.

Various Agencies, On-Call Construction Management for Capital Improvements – Northern California


Mr. Wehling served as construction inspector responsible for monitoring the contractor’s work for conformance to plans and specifications; documenting the progress of the work with daily reports and photographs; coordinating and scheduling materials testing services; submitting regular progress reports; attending construction meetings; monitoring contract change order work in the field; reviewing and logging material test results and addressing nonconforming tests; and coordinating and conducting final inspections. Representative agencies include contracts with the City of Modesto, City of Lathrop, City of Elk Grove, City of Lincoln, Calaveras County, Nevada County, and Caltrans.
Garrett Davis
Backup Construction Inspector

Mr. Davis has 17 years of industry experience. Mr. Davis was a foreman and project engineer prior to becoming a construction inspector. He has experience with pipeline and development projects. He’s currently working on the River Islands project as a construction inspector on the installation of wet and dry utilities over residential lots and a school site. Additionally, Garrett has experience working with various public agencies. Mr. Davis has extensive experience in submittals, RFIs, daily diaries, ADA compliance, weekly progress reports, scheduling.

REPRESENTATIVE EXPERIENCE

City of Lathrop, River Islands Master Planned Development and Infrastructure Project – Lathrop, CA
Role: Construction Inspector | Duration: 06/2018 – Current
Mr. Davis serves as construction inspector responsible for the day-to-day oversight of field operations and inspection for Phases 2A and 2B as part of the $350 million River Islands Master Planned Development Project. Responsible for field inspection, coordinating with utilities owners, reviewing contract submittals and RFIs, and making sure that all construction is following the contract plans and specifications.

- **Stage 2A** infrastructure includes the installation of wet and dry utilities for 1,043 single family dwelling residential lots, including 30,000 feet of new mainline sewer and water; 10,000 feet of trunk sewer and storm drain lines; 20,000 feet of domestic and reclaimed water distribution lines; 10,000 feet of lake interconnect pipeline, lake fill line, and lake aeration line; and construction of 20,000 feet of local drainage pipeline and inlet structures.

- **Stage 2B** infrastructure includes the installation of wet and dry utilities for 1,100 single family dwelling residential lots, a variety of parks and a school site, and 5 miles of 200-year certified levee construction. Additional utilities include: 35,000 feet of new mainline sewer and water; 15,000 feet of local drainage pipeline and inlet structures; 10,000 feet of trunk sewer and storm drain lines; 20,000 feet of domestic and reclaimed water distribution lines; and 10,000 feet of lake interconnect pipeline, lake fill line, and lake aeration lines.

City of Modesto, On-Call Construction Management and Inspection – Modesto, CA
Role: Construction Inspector | Duration: 1/2017 - Current
Mr. Davis serves as construction inspection on TRC’s on-call construction and inspection services contract with the City of Modesto. Work encompasses a variety of projects, including storm drain inlets and storm drain systems; sewers; roadway resurfacing; grind and overlay; cape seal; double chip; micro surfacing and slurry; construction of handicap ramps for ADA compliance; driveway approaches, sidewalks, and walking paths; and underground utilities; and a water well pump station.

- **Standiford Avenue Pavement Rehabilitation**: Pavement rehabilitation of approximately 3 miles. Project includes roadway resurfacing/reconstruction, new signage and striping, handicap ramps for ADA compliance upgrade, storm drainage system improvements, and signal upgrades.
**Lakewood Neighborhood Street Improvements**: Pavement rehabilitation of deteriorated pavement with an asphalt rubber cape seal within the Lakewood Neighborhood (area bordering Scenic Dr., Eastridge Dr., Laramie Dr. and Lillian Dr.). This project also included 89 handicap ramps for ADA compliance upgrade, storm drainage system improvements, and safety improvements around Lakewood Elementary School.

**Village 1 Slurry Seal**: Pavement rehabilitation of deteriorated neighborhood streets with a slurry seal. This project also included replacement of handicap ramps for ADA compliance throughout these neighborhoods.

**Wylie, Floyd, Carver Street Improvements**: Pavement rehabilitation of deteriorated pavement with an asphalt rubber chip seal, cape seal, and type II slurry seal. This project also included the replacement of 37 handicap ramps for ADA compliance, storm drainage system rehabilitation, and safety improvements around Rose Elementary and Somerset Middle Schools.

**Marques Pipeline, Inc., Various Projects – Sacramento, CA**

**Role**: Foreman/Field Inspector | **Duration**: 2010 - 2018

Mr. Davis served as foreman and field inspector on several new, replaced, or rehabilitated pipeline projects. Experienced in pipes ranging in size from 4-inch water mains to 60-inch transmission and Trunk lines utilized open-cut and trenchless technologies, including HDD and Bore and Jack.

**City of Galt, Live Oak Pump Station and Force Main Replacement – Galt, CA**

**Role**: Construction Field Inspector | **Duration**: 2012 - 2013

Mr. Davis served as field inspector for the project, which involved replacement of 12,960 linear feet of 24-inch C905 force main from the pump station site on Live Oak Avenue through a 100-linear-foot jack and bore under Deadman Gulch down the alignment of Midway Avenue and Twin Cities Road and the entry road to the City’s Wastewater Treatment Plant; replacement of 1,850 linear feet 30-inch gravity connecting the old Live Oak lift station (demolition took place at the time of connection) to the new pump station. The pump station was built within 8,800 square feet and was designed to handle 2030 build-out flows of 14.1 MGD but initially constructed to handle peak flows of 9.5 MGD. The station was built with four submersible pumps (two 2.4 MGD (standby) and two 4.7 MGD). Other station amenities included a flow meter to monitor volume, a biological odor control system, internal perimeter security system inside of the security fencing, 12,800 square feet of asphalt pavement, a bypass vault for maintenance, a vented masonry building with metal roof to house electrical equipment, an electrical boom and hoist system on top of the pump station to lift pumps in or out, and a diesel engine generator located in a soundproof enclosure for backup power.
George Escano  
Scheduling Analyst

Mr. Escano has 36 years of experience providing scheduling services for engineering and construction management projects. He is experienced in preparing baseline schedules with cost and resource loading schedules analysis; updated schedules and re-sequencing of work activities and conceptual schedules; and developing detailed work breakdown structure in Primavera/MS Project. His experience also includes claim preparation and time-impact analysis using Claim Digger, which he uses to compare baselines with updated schedules and provide equitable time and cost entitlement to the overall project. He has performed estimated quantity reporting using the Earned Value Methodology and Critical Path Method total float methodology. He is also familiar with using P6 via SAP to create cost and scheduling integration.

REPRESENTATIVE EXPERIENCE

Contra Costa Transportation Authority, I-680/State Route 4 Interchange – Contra Costa, CA  
Role: Project Scheduler | Duration: 10/2018 – 6/2019

Mr. Escano served as project scheduler for the $85 million construction of civil and structural infrastructure for six existing bridges along I-680/State Route 4. The retrofit includes work within the weather-restricted area at the Grayson and Walnut Creek bridges that involves the construction of flood diversion channels. Four bridges will be constructed simultaneously to achieve the project schedule. Work involves drilling of CIDH piles and pile driving; prestressing and construction of retaining walls; drainage system improvements; roadway widening, paving, and restoration work from Pacheco Boulevard to Port Chicago; erection of new road sign structures and traffic lights. Responsible for developing conceptual bid schedules and analyzing bid scheduling criticalities; monitoring construction activities of subcontractors; preparing time entitlement analysis for submittal to the owner for review and payment; reviewing the subcontractor’s daily work cost scheduling activities; and preparing schedule of values and cost estimates for the owner’s approval.

City of Portland, Senior Scheduler, West Side Combined Sewer Overflow Tunnel – Portland, OR  

Mr. Escano served as senior scheduler for the $700 million project. Work included the construction of two pairs of 60-foot-diameter concrete-lined tunnels driven underneath the Willamette River (towards the existing pumping station inlet/outlet) using Herrenknecht TBM technology; excavating for installation of the main deep shafts using secant piles as support; installation of CIDH piles; on-site fabrication of precast segments; compaction grouting for soil stabilization to prevent erosion; construction of tunnels under the main street with drilled shafts for access; drilling of micro tunnels (Herrenknecht) underneath streets as part of the outfall system to connect to the existing storm sewer line; utility work; and asphalt concrete paving and roadway restoration. Responsible for cost loading/estimating of work activities in the CPM baseline schedule; preparing monthly scheduling updates; preparing and presenting charts; utilizing linear scheduling methods; preparing and coordinating weekly schedules with the superintendents and subcontractors; resequencing the schedule due to project changes to project to meet completion dates; issuing monthly reports books to owner and City of Portland that depicts work progress; and providing Hi-Lo revenue projected earnings to the owner.
Alameda Corridor Transportation Authority, Depressed Open-Cut Structure, Bridges, and Pumping Station – Long Beach, CA

**Role:** Senior Scheduling Engineer | **Duration:** 6/1998 – 12/2000

Mr. Escano served as senior scheduling engineer for the $500 million construction of 15 miles of 50-foot-deep depressed trench using drilled soldier secant (CIDH) piles as support of excavation; installation of concrete struts and girders along the sides of the concrete structure; construction of 20 grade-separation cast-in-place precast concrete bridges; construction of 50,000 CIDH piles and retaining walls; relocation of existing advertising billboards prior to construction work; relocation of existing electrical utilities; and construction of a pumping station as a flood control measure for the trench. Responsible for reviewing and evaluating the project schedules of successful bidders; reviewing the 90-day submittal schedule and final project schedule; submitting cost loading, reviewing field verification, and recommending monthly payment billing applications. Also responsible for providing Hi-Lo revenue projected earnings to owner; developing CPM scheduling deliverables to be included in bid package preparation; analyzing time impact analysis of the contractors and defining scope of work that was involved to each of the work task in the schedule for billing.

LA Metro, Twin-Bore Tunnels, Shafts and Associated Infrastructure – Los Angeles, CA

**Role:** Scheduling Manager | **Duration:** 2/1994 – 5/1998

Mr. Escano served as scheduling manager for the $100 million construction of twin-bore tunnels using tunnel boring machine (TBM) and concrete shafts for stations and the HVAC system. Work included the installation of drilled soldier piles along the shafts perimeters; tiebacks to support retaining wall; excavation and disposal of soils; compaction and jet grouting; relocation of existing utilities and construction of new water, sewer and power; installation of temporary transformer for the TBM; installation of settlement markers/instruments to monitor the TBM’s direction survey and centerline; restoration and landscaping after backfilling was completed; and removal of the dewatering system. Responsible for preparing cost and scheduling updates; conceptual bid schedules; analyzing bid scheduling criticalities; submitting cost loading of work activities in the CPM baseline schedule for owner’s approval; and preparing documentation for RFI responses.

Washington Metropolitan Area Transit Authority, Green Line Station Tunnels – Washington, DC

**Role:** Cost and Scheduling Engineer | **Duration:** 2/1986 – 3/1992

Mr. Escano served as cost and scheduling engineer for the $30 million construction of twin-bore tunnels drilled with a Hitachi-Zozen TBM system. Work included the construction of concrete shafts for stations and the HVAC system; installation of the pre-fabricated concrete-lined tunnel segments; drilled soldier piles along the perimeter of the shaft located at the crossover structure, excavation work and disposal of soil; compaction/jet grouting; relocation of utilities and installation of new water, sewer and power utilities; installation of temporary transformer for exclusive use of TBM; installation of settlement markers and instruments to monitor the TBM’s direction survey and centerline; site restoration and landscaping, including planting of trees, after backfilling was completed. Responsible for repairing and updating daily quantity reports; preparing cash flow report and maintaining/updating cost and schedules; cost coding of timesheets and purchase orders; field verification of quantities installed; maintaining change order logs and preparing manhour report; setting up subcontractor change order work estimates and analysis of cost reports; coordinating subcontractors change order projects and coordinating with City agencies regarding work conflicts and cost and resource loading of scheduling task in PMMS Aldegraph.
GLADYS CORNELL, Public Outreach Specialist is public outreach and information specialist with more than 31 years of experience (14 with AIM Consulting) providing public engagement, media relations, and strategic communications services with an emphasis on transportation infrastructure plans and projects. As Principal & Project Manager of AIM Consulting, Ms. Cornell has served successfully as public information manager for multiple complex construction management projects that require an understanding of technical, fiscal and community issues and the ability to create a space for constructive dialogue.

REPRESENTATIVE PROJECT EXPERIENCE

PCTPA, I-80/SR65 Interchange Improvements Construction Management
AIM is providing public information services for PCTPA’s Interstate 80/Highway 65 Interchange Improvements construction project. The first phase of the project will provide a third lane on northbound Highway 65 from Interstate 80 to Pleasant Grove Boulevard and improvements to the Galleria Boulevard/Stanford Ranch Road interchange. Ms. Cornell developed and implement a public information campaign to keep the community informed about this substantial infrastructure project that serves as a thoroughfare in south Placer County. Ms. Cornell managed the website revamp at the beginning of the project before the start of construction and is reviewing regular website and social media updates, as well as quarterly comprehensive project updates. Ms. Cornell worked with local media outlets and handles all media relations about the project and its greater implications for economic development and quality of life in the Placer region. Other AIM responsibilities include coordination with the Caltrans PIO on upcoming construction activities including traffic detours and bike route detours, as well as informing local jurisdictions’ PIOs and local electeds of project construction status and reached milestones.

San Joaquin County, McHenry Avenue Corridor Improvements Project
AIM Consulting, Inc. is currently serving as the public outreach and information consultant for construction management on the McHenry Avenue Corridor Improvements Project, which will replace two bridges and make improvements to the corridor. Ms. Cornell developed and is implementing a robust community outreach and public information program to inform the local and regional community about the project, answer questions about upcoming construction activities, and provide updates throughout the 3-year project. Ms. Cornell provided outreach management and strategic counsel for the facilitation of a pre-construction open house and development of a project website. Ms. Cornell continues to manage social media updates, project update newsletters, and media relations.

City of Yuba City, Fifth Street Bridge Replacement Project
AIM Consulting is currently serving as the Public Information and Outreach consultant for the City of Yuba City’s Fifth Street Bridge Replacement Project. The project will include construction over the Feather River of a new 5th Street Bridge, which connects 5th Street in Marysville to Bridge Street in Yuba City, and construction of a new 2nd Street Bridge in Yuba City. The project also entails a series of other improvements to the nearby transportation infrastructure to enhance public safety and reduce travel delays in and around the project area. As Outreach Project Manager, Ms.
NICOLE PORTER, Public Outreach Specialist, has more than 7 years of strategic communication and community relations experience (6 years with AIM). As Senior Project Coordinator for AIM Consulting, Ms. Porter develops and implements public outreach plans to keep communities informed and engaged. She assists clients with creating content for on-going messaging, collateral materials, social media content, and interactive online engagement tools for public information and community engagement. Ms. Porter also manages and coordinates logistics for stakeholder interviews and focus groups, community meetings, traveling workshops, and special events.

REPRESENTATIVE PROJECT EXPERIENCE

San Joaquin County, Improve McHenry Avenue (San Joaquin County, CA)
The McHenry Avenue corridor serves as a direct link between the Cities of Modesto and Escalon and connects State Route 108 and 120. To accommodate future growth, the County must make improvements to the corridor. AIM developed and is implementing a robust community outreach and public information program to inform the local and regional community about the project which includes regular construction and traffic information through email notifications, text message alerts, website updates, a project hotline, and social media posts. As Senior Project Coordinator, Ms. Porter planned and coordinated a pre-construction open house which was attended by more than 110 community members. Additionally, Ms. Porter drafts and distributes monthly update newsletters and social media posts to keep people informed of ongoing construction activities.

Stanislaus County, Geer Road Intersection Improvements Project
Located in Hughson near the core of Stanislaus County, the Geer Road Intersection Projects include two projects located 1.5 miles apart: the Geer Road and Santa Fe Avenue Intersection Improvement Project and the Geer Road and Whitmore Avenue Intersection Improvement Project. The two projects will widen roadways for turn lanes, reconstruct roadways, install traffic signals at each intersection, and install new traffic signs, striping, and street lighting. Ms. Porter provides assistance to the Project Manager and the Construction Management team to proactively inform, educate and engage the directly impacted property/business owners as well as the larger community and traveling public about upcoming construction activities.

City of Lincoln, Chambers Drive and Nicolaus Road Sewer Improvements Project
AIM Consulting served as the public outreach and information consultant for the Chambers Drive and Nicolaus Road Sewer Improvement Project. The project reduced maintenance costs for sewer lift stations, enabling the City to comply with State mandated reductions in domestic water use, and preparing the old Water Treatment Plant for development. As Project Coordinator, Ms. Porter developed and distributed collateral materials to notify impacted neighborhoods of short-term closures and detours, night work activities, and required minimized flows. Ms. Porter also coordinated updates to the project-specific page on the City’s website. The project was recognized by the American Public Works Association Sacramento Chapter as a project of the year for demonstrating excellence in management, construction, and community relations.
Madeleine Salaber, Labor Compliance Officer

Ms. Salaber has been providing consultant labor compliance and administrative services for local agency construction projects since 2016. As the President of Contract Administrative Services, Inc. (CASI) and a graduate of California State University, Chico, in Business Administration, she has a strong background in business, business management, contract administration and labor related issues. She has provided labor compliance and administrative services, as a subconsultant, for the Cities of Patterson, Rancho Cordova, Lincoln, Folsom, Elk Grove and Loomis, CA, and Counties of Nevada and Placer. Her thorough documentation, assuring labor compliance requirements for projects with State and/or Federal funding and oversight has been impeccable. As a registered Disadvantaged Business Enterprise (DBE) firm, CASI can support both government agencies and construction management consultants in also meeting DBE goals. In addition, Ms. Salaber has outstanding writing skills and is fully capable to assist with proposal writing and proposal management. Ms. Salaber’s clients have recognized her added value by providing flexible, thorough and responsive services.

EDUCATION
BS Business Administration
California State University, Chico

RELEVANT WORK EXPERIENCE
Labor compliance verification in conformance with State and Federal requirements
Construction administration support and document control for Local Agency, State and Federal projects, including adherence to Caltrans Local Assistance Procedures Manual
Proposal writing and management support
Recording meeting minutes

RELEVANT PROJECT EXPERIENCE
City of Patterson Sperry Ave./Del Puerto Ave. Intersection Improvement (Labor Compliance Officer)
Ms. Salaber provided labor compliance services for this improvement project. The work accomplished includes the installation of curb and gutter, storm drainage facilities, irrigation facilities, A.C. pavement removal and replacement, asphalt overlay, traffic signal modification, pavement marking & striping, and other such items.

Rancho Cordova Elementary School Bicycle & Pedestrian Improvements (Labor Compliance Officer)
Ms. Salaber served as the Labor Compliance Officer for the bike and pedestrian improvements project. The project included installation of more than 1.5 miles of new sidewalk, ADA accessible crosswalks, and Class III bike routes in the Cordova Vineyards neighborhood. The project created safe routes for residents and students in the neighborhood to walk or bike to and from Rancho Cordova Elementary School and throughout the area.

Placer County Sign Replacement and Upgrade (Labor Compliance Officer)
Ms. Salaber provided labor compliance services for this project. The project consisted a total of 62 roadways encompassing 175 miles in Placer County will see signage changes in the months to come. The project called for 1,800 new signs, the removal of 1,320 signs, the relocation of 352 signs and the replacement of 1,113 signs.
STEVEN “STEVE” HARRIS, GE, QSD
Materials Testing and Sampling Specialist

Mr. Harris has more than 24 years of experience in geotechnical consultation, project management, SWPPP and construction management services for transportation projects, large mixed-use developments, commercial developments, flood control, water infrastructure, and educational facilities throughout northern California. He has been the lead geotechnical consultant on hundreds of projects that have collectively included millions of cubic yards of earth work; thousands of miles of roadway improvements; public infrastructure, including utilities, bridges, tunnels, levees, detention basins, water storage facilities, water conveyance systems, and highways; commercial and retail centers; large residential and commercial developments; and civic structures including schools, community centers, public buildings, fire stations and police stations. Mr. Harris has performed various computer modeling analyses for slope stability, liquefaction, seepage, settlement, retaining walls, pavement, and deep foundations for projects in the Bay Area and Central Valley. His expertise includes geotechnical explorations, grading recommendations, foundation recommendations, and levee analysis.

SELECT PROJECT EXPERIENCE

Moss Garden—Stockton, CA
Project Manager. Mr. Harris prepared a geotechnical report and provided quality control and oversight during construction of the development and in-tract infrastructure. The project consists of approximately 320 residential units with on-site and off-site infrastructure.

Oakmore Meadows—Stockton, CA
Project Manager. Mr. Harris prepared the geotechnical report and provided quality control and oversight during construction of the development and in-tract infrastructure. The project consists of approximately 200 residential units with on-site infrastructure.

Reclamation District No. 404—Stockton, CA
Project Engineer. Mr. Harris provided geotechnical analysis and seepage evaluation during the design of levee improvements. The RD-404 levee system consists of approximately four miles of Federal Project Levee and approximately ¼ mile of Non-Project Levee.
BR Funsten Office Warehouse Addition—Manteca, CA
Project Manager. Mr. Harris provided oversight and quality control of the geotechnical exploration at the site. The project consists of an 86,400 square foot (SF) warehouse addition, a 7,000 SF office building, installation of bio-swales for drainage control, and associated parking lots and improvements.

City of Tracy Aquatic Center Facility—Tracy, CA
Project Manager. Mr. Harris managed the project geotechnical exploration and prepared a geotechnical report. The Tracy Aquatic Center project consists of several swimming pools with associated buildings and parking areas.

Cordes Ranch—Tracy, CA
Project Manager. Mr. Harris was the project manager and provided engineering support during preparation of the drainage basin infiltration design. The project consists of an approximately 1,250 acre commercial and industrial business center.

Land Park—Lathrop, CA
Project Manager. Mr. Harris performed a shrinkage study, organic content evaluation and engineering support during mass grading and installation of the arterial improvement infrastructure including a quad 84-inch storm drain system and a sewer and storm pump station. He was responsible for attaining a permit from the California Regional Water Quality Control Board Central Valley Region (Order No. 5-00-175) which allowed the project to discharge 250,000 gallons per day of the project construction dewatering water to the San Joaquin River. The project consists of approximately 6,700 residential units and commercial developments on 800 acres adjacent to the Reclamation District 17 levee system. Project improvements include paved streets, underground utilities, three storm drain pump stations; and three large 2½-acre detention basins with liners with below-liner drainage collection systems and sloped embankments.

Mountain House High School—Mountain House, CA
Project Manager. Mr. Harris is the project manager and provided geotechnical design parameters during preparation of the design level geotechnical report. The project consists of constructing a new DSA approved High School including approximately 200,000 square feet of new buildings and associated site improvements.

River Islands—Lathrop, CA
Project Engineer. Mr. Harris provided geotechnical support during design and construction. River Islands is a 4,800-acre site proposed for residential, commercial, business park, golf course, recreational and educational development. Project design includes construction of new levees, improvement of existing levees, construction of interior lakes, associated water crossings and four new bridges across the San Joaquin River and Paradise Cut. The levee design and construction aspects of the project included levee foundation soil improvement using Deep Dynamic Compaction (DDC) and removing and replacing unsuitable foundation soils. The DDC design included provisions for the protection of historical unreinforced masonry grain soils included installation and monitoring of ground vibration instrumentation. The levee construction and improvements include approximately 2.5 million yards of grading and 0.5 million yards of subexcavation.
ZACHARY “ZAC” CRAWFORD, CEG
Materials Testing and Sampling Specialist

Mr. Crawford joined ENGEIO in 2003. He specializes in construction support, engineering geology, environmental consultation, hydrogeology and geomorphology. Mr. Crawford has extensive knowledge of the Central Valley region and its complex geology and hydrogeology. His experience includes managing and supporting the River Islands project, a 4,800-acre waterfront master planned community located on Stewart Tract in the Sacramento-San Joaquin River Delta in Lathrop. Mr. Crawford’s design and leadership skills have assisted in the design and construction of many miles of improved levees, a new bridge across the San Joaquin River, state of the art public schools, numerous multi-use man-made lakes, and a new electricity distribution system to supply power to the planned 11,000 residential dwellings. In addition, he has worked on many complex projects throughout Northern California involving interpretation of lithology, installation of groundwater monitoring well networks, review and analysis of groundwater level and water quality data and providing geologic hazards analyses and defining mitigation measures for the treatment of potentially unstable soils.

SELECT PROJECT EXPERIENCE

Reclamation District No. 404—Stockton, CA
Senior Geologist. Mr. Crawford performed detailed geologic and geotechnical explorations including reviewing local and regional historical geomorphology to determine areas that may be sensitive to levee underseepage. He performed and coordinated numerous subsurface explorations including borings and Cone Penetration Testing and he assisted in preparing a detailed Geotechnical Exploration Report. Additionally, he interpreted subsurface exploration data and prepared geologic profiles for over five miles of levee. His interpretations were crucial in the development of model cross sections for performing levee stability and seepage analysis. The RD-404 levee system consists of approximately four miles of Federal Project Levee and approximately ¾ mile of Non-Project Levee.

River Islands—Lathrop, CA
Project Manager. Mr. Crawford was the project geologist and project manager for various phases of this master planned community. He conducted detailed geologic and geotechnical explorations across the site and performed slope stability analysis, conducted liquefaction analysis and mitigation, monitored ground and surface water quality. He also prepared geotechnical reports and detailed geologic maps as well as phase one and two environmental site
assessments. River Islands is a 4,800-acre site proposed for residential, commercial, business park, golf course, recreational and educational development. Project design includes construction of new levees, improvement of existing levees, construction of interior lakes, associated water crossings and four new bridges across the San Joaquin River and Paradise Cut. The levee design and construction aspects of the project included levee foundation soil improvement using Deep Dynamic Compaction (DDC) and removing and replacing unsuitable foundation soils. The DDC design included provisions for the protection of historical unreinforced masonry grain soils included installation and monitoring of ground vibration instrumentation. The levee construction and improvements include approximately 2.5 million yards of grading and 0.5 million yards of subexcavation.

**Stockton Waterfront Property—Stockton, CA**

*Project Geologist.* Mr. Crawford performed a geotechnical study including logging soil borings using various drilling methods, as well as performing preliminary seismic hazards analyses and writing a preliminary geotechnical exploration report. The proposed project consists of a multi-use residential development.

**City of Oakdale Water Storage Upgrades Geotechnical Exploration—Oakdale, CA**

*Project Manager.* Mr. Crawford was the project Geologist and Project Manager. He performed subsurface explorations, which included laboratory, detailed geologic, and seismic hazards analyses and provided both mitigation and foundation recommendations. He also performed a slope stability analysis reviewed the historical property uses to help determine the location and thickness of an historical landfill located adjacent to the Valley View tank site. The project consists of two 600,000-gallon restedress concrete water storage tanks and associated water pump stations. One of the proposed tanks sits atop a bluff above the Stanislaus River and is adjacent to a historic dump site.

**Jefferson School District - Geotechnical and Geohazards Report—Tracy, CA**

*Project Manager.* Mr. Crawford was the project manager and project geologist. He prepared a geotechnical exploration and geologic hazards report for the proposed elementary school project located in San Joaquin County, California. He coordinated the field exploration which included employing several subsurface drilling techniques as well as performed liquefaction analysis, prepared detailed cross sections, and evaluated the site with respect to numerous geologic hazards. His study included an extensive review of available geotechnical reports and geologic maps which included the school and nearby sites and also included reviewing and addressing, the appropriate requirements included in the California Geological Survey (CGS) Special Publication 117, CGS Note 48 (Checklist for the Review of Engineering Geology and Seismic Reports for California Schools, Hospitals, and Essential Service Buildings). A seismic hazards analysis was also performed for the school site in order to determine the estimated peak ground acceleration for using in design of the proposed new structures. In addition, Mr. Crawford's study included recommendations for geologic and geotechnical hazard mitigation and appropriate foundation designs for the proposed school buildings. The project consisted of demolition of the existing school buildings, and constructing a new DSA approved elementary school campus, including approximately 33,000 square feet of new buildings and associated site improvements.

**Mountain House Geotechnical Services—Tracy, CA**

*Project Geologist.* Mr. Crawford performed extensive environmental and geotechnical studies including logging soil borings and performing Cone Penetration testing, as well as performing detailed liquefaction analyses and writing geotechnical exploration and environmental reports. The project consists of a master planned community comprised of approximately 15,600 homes within 12 villages, 12 elementary schools, two senior villages surrounding a golf course, and a town center.
TRENTON HAYES
Materials Testing and Sampling Specialist

As a Construction Services Manager, Mr. Hayes oversees, schedules and performs materials testing and special inspection services. He provides leadership, training, and technical support to members of our construction services team.

SELECT PROJECT EXPERIENCE

- Honda Water Tank Testing and Observation—Stockton, CA
- Reclamation District No. 404—Stockton, CA
- Stockton Courthouse—Stockton, CA
- Westlake Villages C and D—Stockton, CA
- City of Lathrop On-Call Testing & Observation—Lathrop, CA
- Cobblestone—Mountain House, CA
- Cordes Ranch—Tracy, CA
- Cordes Ranch Water Tank—Tracy, CA
- Creston Park—Mountain House, CA
- Ellis Specific Plan—Tracy, CA
- Glenbrier Testing and SI Services—Tracy, CA
- Holly Drive Warehouse Facility - Buildings A & B—Tracy, CA
- Hopkins Compaction Testing—Tracy, CA
- International Park of Commerce, Offsite Improvements—Tracy, CA
- Land Park - Community Park Basin—Lathrop, CA
- Larkspur Estates Basin Reclamation—Tracy, CA
- Lathrop Community Complex—Lathrop, CA
- Lathrop Crossing—Lathrop, CA
- Lathrop Gateway Buildings 1 & 2—Lathrop, CA
- Lathrop Irrigation District Substation—River Islands, CA
- Manthey Road & Golden Valley Parkway—Lathrop, CA
- Maplewood—Tracy, CA
- Mountain House High School—Mountain House, CA
- Pillsbury Estates—Manteca, CA
- Primrose—Tracy, CA
- Reclamation District No. 773, Fabian Tract—Tracy, CA
- Reclamation District No. 17—Lathrop, CA
- Water Storage Tanks and Sewer and Water Pump Stations, River Islands—Lathrop, CA
- Ripon Grove—Ripon, CA
- River Islands Banta Elementary and Middle Schools—Lathrop, CA
- River Islands Bradshaw’s Crossing Bridge—Lathrop, CA
- River Islands Phase I Levees—Lathrop, CA

EXPERIENCE

Years with ENGEIO: 11

REGISTRATIONS & CERTIFICATIONS

ACI Concrete Field Testing Technician—Level 1, CA, No. 01121741
ICR Reinforced Concrete Special Inspector (Assoc.), CA, No. 8194281
Caltrans 125 AC Asphalt Compaction, CA
Caltrans 125 B1T, CA
Caltrans 125 AGG Aggregate, CA
Caltrans 231 Relative Compaction (Soil), CA
Caltrans 375 Relative Compaction (AC), CA
Nuclear Gauge Operator, CA, No. 44078
CA Department of Public Health-Radioactive Materials License
Hazmat Certified as Required by USDOT and IATA, CA
SUMMARY - Since 1996, Mr. Crawford has been with O’Dell Engineering’s survey division focusing on surveying for the public sector. His experience includes on-call surveying for public agencies, numerous design surveys, right-of-way engineering, surveying, and staking of large-scale construction projects, subdivision mapping, boundary retracement and establishment surveys, resolution of land title issues, and topographic surveying. He stays current with advances in survey technology, legislation affecting land development, the Subdivision Map Act, and land title issues.

RELEVANT EXPERIENCE:

CITY OF STOCKTON, FLASHING BEACONS PHASES 1 & 2: STOCKTON, CA
Mr. Crawford served as Principal-in-Charge and supervised land surveying services in support of the City of Stockton’s Flashing Beacon Project. Phase 1 of the project included the installation of safety improvements to increase visibility and pedestrian and bicyclist safety within school zone crossing locations. The project included installing Rectangular Rapid Flashing Beacons (RRFBs) at nine school locations in Stockton Unified School District, Lodi Unified School District, and Lincoln Unified School District. In addition, nine existing school crosswalks were upgraded, and construction improvements included ten accessible curb ramps with detectable warning surfaces, three pedestrian refuge islands, and one pedestrian path. Phase 2 of the project included the installation of thirty-two RRFBs at fourteen locations, upgrades to fifteen existing crosswalks, and construction of eight accessible curb ramps with detectable warning surfaces at eight intersections throughout Stockton, Stockton Unified School District, and Lodi Unified School District.

DUBLIN SAN RAMON SERVICES DISTRICT, CAMP PARKS WATER MAIN: DUBLIN, CA
O’Dell provided topographic mapping and utility locating for the design of water mains in Camp Parks, Dublin, CA. Mr. Crawford served as Principal-in-Charge of Surveying.

CITY OF MODESTO, EAST MORRIS SEWER IMPROVEMENT PROJECT: MODESTO, CA
Mr. Crawford served as the Principal-in-Charge of Surveying for the East Morris Sewer Improvement Project in Modesto, CA. The project will replace or reroute damaged or inefficient lines. The O’Dell team used precise level loops, GPS, and robotic total stations to locate all of the sanitary sewer improvements within approximately one square mile of urban area. This work required coordination with traffic control for highly congested areas and work on nights and weekends. The final deliverable was an AutoCAD file containing surveyed data at each feature with a link to field notes for quick reference by City staff. The work was completed well under budget and on schedule.

FOSTER CITY, SEWER REHABILITATION PROJECT: FOSTER CITY, CA
O’Dell Engineering provided land surveying services for this sewer rehabilitation project. The project included force mains, gravity mains, and manhole repairs throughout Foster City. Mr. Crawford served as Principal-in-Charge of Surveying for this project. Services included topographic mapping in support of a sewer line rehabilitation project, involving multiple sites in Foster City, CA. O’Dell established survey control, providing topographic surveying and mapping for utilities, and provided topographic surveying and mapping for the full project area.
EXHIBIT A
STATEMENT OF WORK

1. Project Objectives
   1.1 (Type the Project objectives)

2. Project Scope
   2.1 (Type the Project Scope in detail including location of Work, resources, equipment and facilities needed.)

3. Specifications
   3.1 (If applicable and the project has specifications, insert the specifications into this section.)

4. Major Deliverables
   4.1 (Type the major deliverables in detail)

5. Tasks That Support the Deliverables
   5.1 (In detail, describe the Tasks that support the deliverables and which party will complete them.)

6. Internal and External Standards and Guidelines
   6.1 (If applicable and the project has internal and/or external standards or guidelines, insert them into this section.)

7. Criteria of Acceptance for Deliverables
   7.1 (Type criteria used to determine whether deliverables are acceptable, how they will be accepted, and who will accept them.)

8. Notices
   Pursuant to Exhibit C – General Terms and Conditions, Paragraph 15 – Notices, the mailing address for all required notices is as follows:
   Contractor:                             City: City of Stockton
                                           Attn: City Manager
                                           425 N. El Dorado Street
                                           Stockton, CA 95202
9. **Key Personnel**

(If applicable, type the name and contact information Key Personnel working on the Project.)

10. **Option to Renew.**

(If an option to renew is applicable, keep this clause and type the specifics as to how many renewal terms e.g. two one-year renewals, etc.)

The term of the Agreement may be extended up to _ by a written amendment executed by both parties. However, the total term of the Agreement including the extended term shall not exceed _ years.
Exhibit B

Insurance Requirements for Professional Services

NOTE: The City of Stockton is now using the online insurance program PINS Advantage. Once you have been awarded a contract you will receive an email from the City’s online insurance program requesting you to forward the email to your insurance provider(s).

Contractor shall procure and maintain for the duration of the contract insurance against claims for injuries to persons or damages to property which may arise from or in connection with the negligent performance of the work hereunder by the Contractor, its agents, representatives, or employees.

MINIMUM SCOPE AND LIMIT OF INSURANCE

Coverage shall be at least as broad as:

1. Commercial General Liability (CGL): Insurance Services Office Form CG 00 01 covering CGL on an "occurrence" basis, including products and completed operations, property damage, bodily injury and personal & advertising injury with limits of no less than $2,000,000 per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location (ISO CG 25 03 or 25 04) or the general aggregate limit shall be twice the required occurrence limit.

2. Automobile Liability: Insurance Services Office Form Number CA 0001 covering, Code 1 (any auto), or if Contractor has no owned autos, Code 8 (hired) and 9 (non-owned), with limit no less than $1,000,000 per accident for bodily injury and property damage.

3. Workers' Compensation insurance as required by the State of California, with Statutory Limits, and Employer's Liability Insurance with limit of no less than $1,000,000 per accident for bodily injury or disease. (Not required if Contractor provides written verification it has no employees)

4. Professional Liability (Errors and Omissions) Insurance appropriate to the Contractor's profession, with limit no less than $2,000,000 per occurrence or claim, $2,000,000 aggregate. (If Claims-made, see below.)

It shall be a requirement under this agreement that any available insurance proceeds broader than or in excess of the specified minimum insurance coverage requirements and/or limits shall be available to the Additional Insured. Furthermore, the requirements for coverage and limits shall be: (1) the minimum coverage and limits specified in this Agreement; or (2) the broader coverage and maximum limits of coverage of any insurance policy or proceeds available to the named insured, whichever is greater. No
representation is made that the minimum insurance requirements of this agreement are sufficient to cover the obligations of the Contractor under this agreement.

**Limits of Insurance**

The limits of insurance required in this agreement may be satisfied by a combination of primary and umbrella or excess insurance. Any umbrella or excess insurance shall contain or be endorsed to contain a provision that such coverage shall also apply on a primary and non-contributory basis before the City’s own insurance or self-insurance shall be called upon to protect it as a named insured.

**Other Insurance Provisions**

The insurance policies are to contain, or be endorsed to contain, the following provisions:

**Additional Insured Status**

The City of Stockton, its officers, officials, employees, and volunteers are to be covered as additional insureds on the CGL policy with respect to liability arising out of work or operations performed by or on behalf of the Contractor including materials, parts, or equipment furnished in connection with such work or operations. General liability coverage can be provided in the form of an endorsement to the Contractor’s insurance (at least as broad as ISO Form CG 20 10 11 85 or if not available, through the addition of both CG 20 10, CG 20 26, CG 20 33, or CG 20 38; and CG 20 37 if a later edition is used). Additional insured Name of Organization shall read “City of Stockton, its officers, officials, employees, and volunteers.” Policy shall cover City of Stockton, its officers, officials, employees, and volunteers for all locations work is done under this contract.

**Primary Coverage**

The Additional Insured coverage under the Contractor’s policy shall be “primary and non-contributory” and will not seek contribution from the City’s insurance or self-insurance and shall be at least as broad as CG 20 01 04 13. The City of Stockton does not accept endorsements limiting the Contractor’s insurance coverage to the sole negligence of the Named Insured.

**Notice of Cancellation**

Each insurance policy required above shall state that coverage shall not be canceled, except with notice to the City of Stockton.
**Waiver of Subrogation**

Contractor hereby grants to City of Stockton a waiver of any right to subrogation which any insurer of said Contractor may acquire against the City of Stockton by virtue of the payment of any loss under such insurance. Contractor agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the City of Stockton has received a waiver of subrogation endorsement from the insurer. **The Workers’ Compensation policy shall be endorsed with a waiver of subrogation** in favor of the City of Stockton for all work performed by the Contractor, its employees, agents and subcontractors.

**Self-Insured Retentions**

All Self-insured retentions must be disclosed to Risk Management for approval and shall not reduce the limits of liability. The City of Stockton may require the Contractor to purchase coverage with a lower retention or provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention. The policy language shall provide, or be endorsed to provide, that the self-insured retention may be satisfied by either the named insured or City of Stockton.

**Acceptability of Insurers**

Insurance is to be placed with insurers with a current A.M. Best’s rating of no less than A:VII, unless otherwise acceptable to the City of Stockton.

**Claims Made Policies (note – applicable only to professional liability)**

If any of the required policies provide coverage on a claims-made basis:

1. The Retroactive Date must be shown and must be before the date of the contract or the beginning of contract work.

2. Insurance must be maintained and evidence of insurance must be provided **for at least five (5) years after completion of the contract of work**.

3. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a Retroactive Date prior to the contract effective date, the Contractor must purchase “extended reporting” coverage for a minimum of **five (5) years** after completion of contract work.

**Verification of Coverage**

Contractor shall furnish the City of Stockton with original certificates and amendatory endorsements or copies of the applicable policy language effecting coverage required by this clause. All certificates and endorsements are to be received and approved by the City of Stockton Risk Services before work commences. However, failure to obtain the
required documents prior to the work beginning shall not waive the Contractor’s obligation to provide them. The City of Stockton reserves the right to require complete, certified copies of redacted Declaration Pages of all required insurance policies, including endorsements required by these specifications, at any time.

Contractor shall, prior to the commencement of work under this Agreement, provide the City of Stockton with a copy of its declarations page(s) certificates and endorsement page(s) for each of the required policies.

Subcontractors

Contractors shall require and verify that all subcontractors, or other parties hired for this work, purchase and maintain coverage for indemnity and insurance requirements as least as broad as specified in this agreement to the extent they apply to the scope of the subcontractor’s work with the same certificate of insurance requirements and naming as additional insureds all parties to this contract. Contractor shall include the following language in their agreement with Subcontractors: “Subcontractors hired by Contractor agree to be bound to Contractor and City in the same manner and to the same extent as Contractor is bound to City under the contract documents and provide a valid certificate of insurance and the required endorsements included in the agreement as proof of compliance prior to commencement of any work and to include this same requirement for any subcontractors they hire for this work. A copy of the owner contract document indemnity and insurance provisions will be furnished to the subcontractor upon request.” Contractor shall provide proof of such compliance and verification to the City upon request.

Special Risks or Circumstances

City of Stockton reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances and Contractor will be compensated for any additional premium costs for getting such coverage.

Certificate Holder Address

Proper address for mailing certificates, endorsements and notices shall be:

City of Stockton Attn: City Risk Services
400 E Main Street, 3rd Floor – HR
Stockton, CA 9520
EXHIBIT C
GENERAL TERMS AND CONDITIONS

1. **Goods, Equipment and Services.** Subject to the terms and conditions set forth in this Agreement, Contractor shall provide to City the services described in Exhibit A of the Agreement. Contractor shall provide said services at the time, place and in the manner specified in Exhibit A of the Agreement.

2. **City Assistance, Facilities, Equipment and Clerical Support.** Except as set forth in Exhibit A, Contractor shall, at its sole cost and expense, furnish and maintain all facilities and equipment that may be required for furnishing services pursuant to this Agreement. If applicable, City shall furnish to Contractor only the facilities and equipment listed in Exhibit A to the Agreement.

3. **Compensation.** City shall pay Contractor for services rendered pursuant to this Agreement as described more particularly in Exhibit A and Exhibit E to the Agreement.

   3.1 Invoices submitted by Contractor to City must contain a brief description of work performed, time spent and City reference number. Within thirty (30) days of receipt of Contractor's invoice, City will review invoice, and if acceptable make payment on approved invoice.

   3.2 Upon completion of work and acceptance by City, Contractor shall have sixty (60) days in which to submit final invoicing for payment. An extension may be granted by City upon receiving a written request thirty (30) days in advance of said time limitation. The City shall have no obligation or liability to pay any invoice for work performed which the Contractor fails or neglects to submit within sixty (60) days, or any extension thereof granted by the City, after the work is accepted by the City.

4. **Sufficiency of Contractor's Work.** All Contractor services, work, and deliverables shall be performed in a good and workmanlike manner with due diligence in accordance with the degree of skill normally exercised by similar contractors supplying services and work of a similar nature, and in conformance with applicable laws, codes and professional standards. Contractor’s work shall be adequate and sufficient to meet the purposes of this Agreement.

5. **Ownership of Work.** All reports, work product, all other documents completed or partially completed by Contractor or its approved subcontractors, in performance of this Agreement, and if applicable, drawings, designs, and plan review comments shall become the property of the City. **Notwithstanding the foregoing or anything to the contrary in this Agreement, Contractor shall retain sole ownership of its preexisting information and intellectual property including, but not limited to, working papers, computer programs, software and associated source code, and intellectual property, general skills, know-how, processes, patents, patents pending, standard details, templates, figures or specifications or Contractor’s seal, stamp or certification, or any third party software previously developed by Contractor specifically for other customers of Contractor, or previously developed by Contractor.
for the purpose of providing substantially similar services to other Contractor customers. Any and all copyrightable subject matter in all materials is hereby assigned to the City and the Contractor and its approved subcontractors agree to execute any additional documents that may be necessary to evidence such assignment. All materials shall be delivered to the City upon completion or termination of the work under this Agreement. If any materials are lost, damaged or destroyed before final delivery to the City, the Contractor shall replace them at its own expense. Contractor and its approved subcontractors shall keep materials confidential. Materials shall not be used for purposes other than performance of services under this Agreement and shall not be disclosed to anyone not connected with these services, unless the City provides prior written consent.

Any reuse of documents for purposes not contemplated under this Agreement or modification of the aforementioned materials, work products or documents by the City without the Contractor's written permission shall be at the City's sole risk, and the Contractor shall have no liability with respect to such reuse or modification.

6. **Timeliness.** Time is of the essence. Material Consideration in this Agreement. Notwithstanding the foregoing, in no event will Contractor be responsible for damages or considered in default due to delays beyond Contractor's reasonable control. Further, Contractor acknowledges that the failure of Contractor to exercise a reasonable standard of care to comply with the time limits described in Exhibit A and Exhibit F may result in economic or other losses to the City.

7. **Changes.** Both parties to this Agreement understand that it may become desirable or necessary during the term of this Agreement for City to modify the scope of services provided for under this Agreement. Any material extension or change in the scope of work shall be discussed with City and the change and cost shall be memorialized in a written amendment to the original contract prior to the performance of the additional work. Until the amendment is so executed, City will not be responsible to pay any charges Contractor may incur in performing such additional services, and Contractor shall not be required to perform any such additional services.

8. **Amendment.** No variation of the terms of this Agreement shall be valid unless an amendment is made in writing and signed by both parties.

9. **Contractor's Status.**

9.1 In performing the obligations set forth in this Agreement, Contractor shall have the status of an independent contractor and Contractor shall not be considered to be an employee of the City for any purpose. All persons working for or under the direction of Contractor are its agents and employees and are not agents or employees of City. Contractor by virtue of this Agreement, has no authority to bind or incur any obligation on behalf of City. Except as expressly provided in Exhibit A, Contractor has no authority or responsibility to exercise any rights or power vested in the City. No agent, officer or employee of the City is to be considered an employee of the Contractor. It is understood by both Contractor and
City that this Agreement shall not be construed or considered under any circumstances to create an employer-employee relationship or a joint venture.

9.2 Contractor shall determine the method, details and means of performing the work and services to be provided by Contractor under this Agreement. Contractor shall be responsible to City only for the requirements and results specified in this Agreement and, except as expressly provided in this Agreement, shall not be subjected to City's control with respect to the physical action or activities of Contractor in fulfillment of this Agreement. Contractor has control over the manner and means of performing the services under this Agreement. If necessary, Contractor has the responsibility for employing other persons or firms to assist Contractor in fulfilling the terms and obligations under this Agreement.

9.3 If in the performance of this Agreement any third persons are employed by Contractor, such persons shall be entirely and exclusively under the direction, supervision and control of Contractor. All terms of employment including hours, wages, working conditions, discipline, hiring and discharging or any other term of employment or requirements of law shall be determined by the Contractor.

9.4 It is further understood and agreed that Contractor must issue W-2 forms or other forms as required by law for income and employment tax purposes for all of Contractor's assigned personnel under the terms and conditions of this Agreement.

10. Subcontractor

10.1 Subcontractors shall not be recognized as having any direct or contractual relationship with City. Contractor shall be responsible for the work of subcontractors, which shall be subject to the provisions of this Agreement. Subcontractors will be provided with a copy of the Agreement and be bound by its terms. Contractor is responsible to City for the acts and omissions of its subcontractors and persons directly or indirectly employed by them.

10.2 If in the performance of this Agreement any third persons are employed by Contractor, such persons shall be entirely and exclusively under the direction, supervision and control of Contractor. All terms of employment including hours, wages, working conditions, discipline, hiring, and discharging or any other term of employment or requirement of law shall be determined by Contractor.

10.3 It is further understood and agreed that Contractor must issue W-2 forms or other forms as required by law for income and employment tax purposes for all of Contractor's personnel.

11. Termination.

11.1 Termination for Convenience of City. The City may terminate this Agreement at any time by mailing a notice in writing to Contractor fifteen (15) days prior to effective date of the termination. The Agreement shall then be deemed
terminated, and no further work shall be performed by Contractor. If the Agreement is so terminated, the Contractor shall be paid for the work actually completed at the time the notice of termination is received.

11.2 Should either party default in the performance of this Agreement or materially breach any of its provisions, the other party, at that party’s option, may terminate this Agreement by giving written notification to the other party provided, that defaulting Party be given ten (10) days to cure or materially commence to cure such default.

11.3 Funding- Non-Appropriation. It is mutually understood between the Parties that payment to the Contractor for performance shall be dependent upon the availability of appropriations by the City Council for the purposes of this Agreement. No legal liability on the part of the City for any payment may arise under this Agreement until funds are made available and until the Contractor has received funding availability, which will be confirmed in writing. If funding for any fiscal year is reduced or deleted, or if the City loses funding for any reason, the City, in its sole discretion, shall have the option to either (a) cause this Agreement to be canceled or terminated pursuant to applicable provisions of the Agreement; or (b) offer to amend the Agreement to reflect the reduced funding for this Agreement.

12. Non-Assignability. The Contractor shall not assign, sublet, or transfer this Agreement or any interest or obligation in the Agreement without the prior written consent of the City which shall not be unreasonably withheld, and then only upon such terms and conditions as City may set forth in writing. Contractor shall be solely responsible for reimbursing subcontractors.

13. Indemnity and Hold Harmless. To the fullest extent permitted by law, Contractor shall hold harmless, defend, and indemnify City of Stockton and its officers, officials, employees, and volunteers from and against all claims, damages, losses, and expenses including reasonable attorney fees arising out of the performance of the work described herein, caused in whole or in part by any negligent act or omission of the Contractor, any subcontractor, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, except where caused by the active negligence, sole negligence, or willful misconduct of the City of Stockton. This obligation is independent of, and shall not in any way be limited by, the minimum Insurance obligations contained in this agreement. These obligations shall survive the completion or termination of this agreement.

14. Insurance. During the term of this Agreement, Contractor shall maintain in full force and effect at its own cost and expense the insurance coverage as set forth in the attached Exhibit B to this Agreement and shall otherwise comply with the other provisions of Exhibit B to this Agreement.

15. Notices. All notices herein required shall be in writing and shall be sent by certified or registered mail, postage prepaid, addressed in Exhibit A to this Agreement.

16. Conformance to Applicable Laws. Contractor shall comply with all
applicable Federal, State, and Municipal laws, rules, and ordinances. Contractor shall not discriminate in the employment of persons or in the provision of services under this Agreement on the basis of any legally protected classification, including race, color, national origin, ancestry, sex or religion of such person.

17. **Licenses Certifications and Permits.** Prior to the City’s execution of this Agreement and prior to the Contractor's engaging in any operation or activity set forth in this Agreement, Contractor shall obtain a City of Stockton business license, which must be kept in effect during the term of this Agreement. Contractor covenants that it has obtained all certificates, licenses, permits and the like required to perform the services under this Agreement. Such licenses, certificates and permits shall be maintained in full force and effect during the term of this Agreement.

18. **Records and Audits.** Contractor shall maintain all records regarding this Agreement and the services performed for a period of three (3) years from the date that final payment is made. At any time during normal business hours, the records shall be made available to the City to inspect and audit. To the extent Contractor renders services on a time and materials basis, Contractor shall maintain complete and accurate accounting records, in a form prescribed by City or, if not prescribed by City, in accordance with generally accepted accounting principles, such records to include, but not be limited to, payroll records, attendance cards, time sheets, and job summaries.

19. **Confidentiality.** Contractor shall exercise reasonable precautions to prevent the unauthorized disclosure and use of City reports, information or conclusions.

20. **Conflicts of Interest.** Contractor covenants that other than this Agreement, Contractor has no financial interest with any official, employee or other representative of the City. Contractor and its principals do not have any financial interest in real property, sources of income or investment that would be affected in any manner of degree by the performance of Contractor's services under this Agreement. If such an interest arises, Contractor shall immediately notify the City.

21. **Waiver.** In the event either City or Contractor at any time waive any breach of this Agreement by the other, such waiver shall not constitute a waiver of any other or succeeding breach of this Agreement, whether of the same or of any other covenant, condition or obligation. No payment, partial payment, acceptance, or partial acceptance by City shall operate as a waiver on the part of City of any of its rights under this Agreement.

22. **Governing Law.** California law shall govern any legal action pursuant to this Agreement with venue for all claims in the Superior Court of the County of San Joaquin, Stockton Branch or, where applicable, in the Federal District Court of California, Eastern District, Sacramento Division.

23. **No Personal Liability.** No official or employee of City shall be personally liable to Contractor in the event of any default or breach by the City or for any amount due Contractor.
24. **Severability** If any portion of this Agreement or application thereof to any person or circumstance shall be declared invalid by a court of competent jurisdiction or if it is found in contravention of any federal, state or city statute, ordinance or regulation the remaining provisions of this Agreement or the application thereof shall not be invalidated thereby and shall remain in full force and effect to the extent that the provisions of this Agreement are severable.

25. **Non-Discrimination.** During the performance of this Agreement, Contractor and its officers, employees, agents, representatives or subcontractors shall not unlawfully discriminate in violation of any federal, state, or local law, rule or regulation against any employee, applicant for employment or person receiving services under this Agreement because of race, religion, color, national origin, ancestry, physical or mental disability, medical condition (including genetic characteristics), marital status, age, political affiliation, sex or sexual orientation, family and medical care leave, pregnancy leave, or disability leave. Contractor and its officers, employees, agents, representative or subcontractors shall comply with all applicable Federal, State and local laws and regulations related to non-discrimination and equal opportunity, including without limitation the City’s nondiscrimination policy; the Fair Employment and Housing Act (Government Code sections 12990 (et seq.); California Labor Code sections 1101, 1102 and 1102.1; the Federal Civil Rights Act of 1964 (P.L. 88-352), as amended; and all applicable regulations promulgated in the California Code of Regulation or Code of Federal Regulations. Title VI of the Civil Rights Act of 1964 requires that “no person in the United States shall, on the grounds of race, color, or national origin be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance.” (42 USC Section 2000d). [http://www.dol.gov/oaam/regs/statutes/titlevi.htm](http://www.dol.gov/oaam/regs/statutes/titlevi.htm). The City requires compliance with the requirements of Title VI in all of its programs and activities regardless of funding source.

26. **Force Majeure.** Neither party shall be responsible for delays or failures in performance resulting from acts of God, acts of civil or military authority, terrorism, fire, flood, strikes, war, epidemics, pandemics, quarantine requirements, shortage of power or other acts or causes reasonably beyond the control of that party. The party experiencing the force majeure event agrees to give the other party notice promptly following the occurrence of a force majeure event, and to use diligent efforts to recommence performance as promptly as commercially practicable.

27. **Taxes and Charges.** Contractor shall be responsible for payment of all taxes, fees, contributions or charges applicable to the conduct of the Contractor’s business.

28. **Cumulative Rights.** Any specific right or remedy provided in this Agreement will not be exclusive but will be cumulative of all other rights and remedies to which may be legally entitled.

29. **Advice of Attorney.** Each party warrants and represents that in executing this Agreement, it has received independent legal advice from its attorneys or the opportunity to seek such advice.
30. **Heading Not Controlling** Headings used in this Agreement are for reference purposes only and shall not be considered in construing this Agreement.

31. **Entire Agreement, Integration, and Modification.**

   31.1 This Agreement represents the entire integrated agreement between Contractor and the City; supersedes all prior negotiations, representations, or agreements, either written or oral between the parties and may be amended only by a written Amendment signed by the Contractor and City Manager.

   31.2 All Exhibits to this Agreement and this Agreement are intended to be construed as a single document.

32. **Counterparts.** This Agreement may be executed in one or more counterparts, each of which shall be deemed an original. All counterparts shall be construed together and shall constitute one agreement.

33. **Authority.** The individual(s) executing this Agreement represent and warrant that they have the legal capacity and authority to do so on behalf of their respective legal entities.
EXHIBIT D
PROFESSIONAL SERVICES SPECIAL TERMS AND CONDITIONS

1. Definitions. The following words and phrases have the following meanings for purposes of this Agreement:

   1.1 “Services” means, collectively, the services, duties and responsibilities described in Exhibit A of this Agreement and any and all work necessary to complete them or carry them out fully and to the standard of performance required in this Agreement.

   1.2 “Deliverable” means quantifiable goods or services that will be provided upon completion of a project. A deliverable is any tangible material, work or thing delivered by one party to the other, including associated technical documentation. A deliverable can be tangible or intangible parts of the development process, and often are specified functions or characteristics of the project.

2. General. The following terms and conditions are applicable for the Professional Services only. The special conditions shall be read in conjunction with the Standard Agreement, General Terms and Conditions ("GTC") Exhibit C, and all other Exhibits identified in the Standard Agreement.

   2.1 Where any portion of the GTC is in conflict to or at variance with any provisions of the Special Conditions of the Agreement, then unless a different intention stated, the provision(s) of the Special Conditions of the Agreement shall be deemed to override the provision(s) of GTC only to the extent that such conflict or variations in the Special Conditions of the Agreement are not possible of being reconciled with the provisions of the GTC.

   2.2 In the case of modification of a part or provision of the GTC, the unaltered part or provision, or both shall remain in effect. The Special Conditions shall relate to a particular project and be peculiar to that project but shall not weaken the character or intent of the GTC.

3. Time for Performance

   3.1 Contractor shall perform the services according to the schedule contained in Exhibit F.

   3.2 Timeliness of Performance i) Contractor shall provide the Services, and Deliverables within the term and within the time limits required under this Agreement, pursuant to the provisions of Exhibit A and Exhibit F. ii) Neither Contractor nor Contractor's agents, employees nor subcontractors are entitled to any damages from the City, nor is any party entitled to be reimbursed by the
City, for damages, charges or other losses or expenses incurred by Contractor by reason of delays or hindrances in the performance of the Services, whether or not caused by the City.

4. **Standard of Performance**

In addition to Exhibit C, Section 4 and 17, Contractor agrees as follows:

4.1 Contractor’s Services shall be performed in accordance with generally accepted professional practices and principles and in a manner consistent with the level of care and skill ordinarily exercised by members of Contractor’s profession currently practicing under similar conditions. Contractor shall comply with the profession’s standard of performance, applicable laws, regulations, and industry standards. By delivery of completed work, Contractor certifies that the work conforms to the requirements of this Agreement and all applicable federal, state and local laws. If Contractor is retained to perform services requiring a license, certification, registration or other similar requirement under California law, Contractor shall maintain that license, certification, registration or other similar requirement throughout the term of this Agreement.

4.2 Contractor acknowledges that it is entrusted with or has access to valuable and confidential information and records of the City and with respect to that information, Contractor agrees to be held to the standard of care of a fiduciary. Contractor shall assure that all services that require the exercise of professional skills or judgment are accomplished by professionals qualified and competent in the applicable discipline and appropriately licensed, if required by law. Contractor must provide copies of any such licenses. Contractor remains responsible for the professional and technical accuracy of all Services or Deliverables furnished, whether by Contractor or its subcontractors or others on its behalf. All Deliverables must be prepared in a form and content satisfactory to the Using Agency and delivered in a timely manner consistent with the requirements of this Agreement.

4.3 If Contractor fails to comply with the foregoing standards, Contractor must perform again, at its own expense, all Services required to be re-performed as a direct or indirect result of that failure. Any review, approval, acceptance or payment for any of the Services by the City does not relieve Contractor of its responsibility for the professional skill and care and technical accuracy of its Services and Deliverables. This provision in no way limits the City’s rights against Contractor either under this Agreement, at law or in equity.
5. **Compensation**

5.1 In addition to Section 3 Compensation in Exhibit C – GTC, the Contractor shall be compensated for the services provided under this Agreement as follows:

5.1.1 Contractor shall be compensated for services rendered and accepted under this Agreement and shall be paid monthly, in arrears on a not to exceed basis, based upon the rates set forth in Exhibit E attached hereto and made a part of this Agreement. Contractor may vary the compensation for each task in Exhibit E provided that the total project compensation listed in Exhibit E and the Standard Agreement is not exceeded.

6. **Personnel**

6.1 None of the work or services covered by this Agreement shall be subcontracted without the prior written approval of the City. Any work or services subcontracted hereunder shall be specified by written agreement and shall be subject to each provision of this Agreement. Contractor shall provide subcontractor a copy of this fully executed Agreement.

6.2 Contractor agrees to assign only competent personnel according to the reasonable and customary standards of training and experience in the relevant field to perform services under this Agreement. Failure to assign such competent personnel shall constitute grounds for termination of this Agreement. The payment made to Contractor pursuant to this Agreement shall be the full and complete compensation to which Contractor and Contractor’s officers, employees, agents, and subcontractors are entitled for performance of any work under this Agreement. Neither Contractor nor Contractor’s officers or employees are entitled to any salary or wages, or retirement, health, leave or other fringe benefits applicable to employees of the City. The City will not make any federal or state tax withholdings on behalf of Contractor. The City shall not be required to pay any workers’ compensation insurance on behalf of Contractor. Contractor shall pay, when and as due, any and all taxes incurred as a result of Contractor’s compensation hereunder, including estimated taxes, and shall provide City with proof of such payments upon request.

6.3 **Key Personnel:** Because of the special skills required to satisfy the requirements of this Agreement, Contractor shall not reassign or replace key personnel without the written consent of the City, which consent the City will not unreasonably withhold. “key personnel” means those job titles and the persons assigned to those positions in accordance with the provisions of this Agreement. The City may at any time in writing notify Contractor that the City will no longer accept performance of Services under this Agreement by one or more Key Personnel listed. Upon that notice Contractor shall immediately suspend the
7. **Reports and Information**

Contractor shall at such times and in such forms as the City may require furnish the City such periodic reports as it may request pertaining to the work or services undertaken pursuant to this Agreement, the costs and obligations incurred or to be incurred in connection therewith, and any other matters are covered by this Agreement as specified in Exhibit A and Exhibit E.

8. **Findings Confidential**

All of the reports, information, data, et cetera, prepared or assembled by the Contractor under this Agreement are confidential and the Contractor agrees that they shall not be made available to any individual or organization without the prior written approval of the City. Contractor shall not be required under the provisions of this paragraph to keep confidential any data or information which is or becomes publicly available, is required by applicable law or by proper legal or governmental authority, is already rightfully in the Contractor’s possession without obligation of confidentiality, is independently developed by Contractor outside the scope of this Agreement or is rightfully obtained from third parties. Contractor shall give City prompt notice of any such legal or governmental demand and reasonably cooperate with City in any effort to seek a protective order or otherwise to contest such required disclosure.

9. **Copyright**

No materials, including but not limited to reports, maps, or documents produced as a result of this Agreement, in whole or in part, shall be available to Contractor for copyright purposes. Any such materials produced as a result of this Agreement that might be subject to copyright shall be the property of the City and all such rights shall belong to the City, and the City shall be sole and exclusive entity who may exercise such rights.

10. **Deliverables**

Contractor shall prepare or provide to the City various Deliverables. “Deliverables” include work product, such as written reviews, recommendations, reports and analyses, produced by Contractor for the City. The City may reject Deliverables that do not include relevant information or data, or do not include all documents or other materials specified in this Agreement or reasonably necessary for the purpose for which the City made this Agreement or for which the City intends to use the Deliverables. If the City determines that Contractor has failed to comply with the foregoing standards, it has 30 days from the discovery to notify Contractor of its failure. If Contractor does not correct the failure, or if it is possible to do so, within 30 days after receipt of notice from the City specifying the failure, then the City, by written notice, may treat the failure as a default of this Agreement. Partial or incomplete Deliverables may be accepted for review only when required for a specific and well-defined purpose and when consented to in advance by the City. Such Deliverables will not be considered as satisfying the requirements of this Agreement and
partial or incomplete Deliverables in no way relieve Contractor of its commitments under this Agreement.
EXHIBIT E
COMPENSATION SCHEDULE

The Contractor shall be compensated for the services identified in Exhibit A, Exhibit C, and Exhibit D to this Agreement as follows:

1. **Project Price**
   
   1.1 The maximum the Contractor shall be paid on this Agreement is $ (hereafter the “not to exceed” amount). The “not to exceed” amount includes all payments to be made pursuant to this Agreement, including City approved reimbursable expenses, if any. Nothing in this Agreement requires the City to pay for work that does not meet the Standard of Performance identified in Exhibit D section 4 or other requirements of this Agreement.

   1.2 **Standard Reimbursable Items:** Only the reimbursable items identified in Exhibit A, C, and D (Compensation), shall be compensated to the Contractor. Reimbursable expenses will be reimbursed without markup. Fees plus reimbursable expenses shall not exceed the amount set forth in section 1.1 of this Exhibit and a copy of the original invoice for the items listed in i, ii or iii below shall be attached to the invoice submitted to the City for reimbursement. Payments shall be based upon work documents submitted by the Contractor to the City and accepted by the City as being satisfactory to City’s needs. The City shall not pay a markup on any of the items listed in i, ii or iii. Additionally, items such a telephone, fax, postage or freight are already included in the billable hourly rate. Contractor shall be reimbursed the direct expenses, which are the actual cost of the following items that are reasonable, necessary and actually incurred, by the Contractor in connection with the services:

      i. Expenses, fees or charges for printing, reproduction or binding of documents at actual costs with no markup added to the actual cost.

      ii. Any filing fees, permit fees, or other fees paid or advanced by the Contractor at actual costs with no markup added to the actual cost.

      iii. Travel expenses shall be reimbursed in accordance with the City’s travel policy, which is incorporated herein by reference. Reimbursement shall be made at actual costs with no markup added to the actual cost.

   1.3 The Contractor shall be entitled to receive payments for its work performed pursuant to the Agreement. The City will pay Contractor based on invoices for acceptable work performed and approved until the “not to exceed” amount is reached. Thereafter, Contractor must complete services based
on the Agreement without additional compensation unless there is a material change to the Statement of Work and Scope by a written Amendment.

1.4 If work is completed before the “not to exceed” amount is reached, the Contractor’s compensation will be based on the Contractor’s invoices previously submitted for acceptable work performed and approved.

1.5 *Subcontractor Costs:* Compensation for subcontractors shall be limited to the same restrictions imposed on the Contractor. Maximum markup Contractor may apply to subcontractor fees, minus reimbursable expenses, shall not exceed %.

2. **Task Price.** Below is the price for the services and reimbursable expenses as described in Exhibit A of this Agreement.

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<tr>
<th>Task</th>
<th>Description</th>
<th>Task Price</th>
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<td><strong>TOTAL PRICE</strong></td>
<td>$</td>
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3. **Hourly Rates.** The following is a list of hourly billable rates that Contractor shall apply for additional services requested of the Contractor. Contractor shall be compensated based on the hourly rates set forth below, on a time and material basis for those services that are within the general scope of services of this Agreement, but beyond the description of services required under Exhibit A, and all services are reasonably necessary to complete the standards of performance required by this Agreement. Any changes and related fees shall be mutually agreed upon between the parties by a written amendment to this Agreement.

**Hourly Billable Rate Schedule**

<table>
<thead>
<tr>
<th>Title</th>
<th>Role on Project</th>
<th>Hourly Billable Rates</th>
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4. **Additional Fees.** Should an amendment to the Agreement be issued for additional services that require the following items, the unit prices are as follows:
5. **Invoice to Address.** Each invoice submitted shall identify the specific task(s) listed in Exhibit A and this Exhibit, and the completed work product/deliverable for the agreed upon price listed in this Exhibit. Invoices shall be submitted to the below address:

   City of Stockton   Department
   Attention:   
   425 N. El Dorado Street
   Stockton, CA 95202
EXHIBIT F

TIMELINE

1. Consultant shall complete the requested services identified in Exhibit A as follows:

1.1 **TIMELINE FOR COMPLETION OF WORK**

1.1.1 (insert deliverable title) (insert duration i.e. 1 week)

1.1.2 (insert deliverable title) (insert duration i.e. 1 day)

1.1.3 (insert deliverable title) (insert duration i.e. 3 weeks)
183 D'Arcy Parkway
Lathrop, CA 95207
(209) 858-5500
TRCcompanies.com