

ITEM 6B

Coachella Valley Association of Governments
Transportation Committee
August 29, 2022



STAFF REPORT

Subject: Design and Engineering Services for the Western Coachella Valley Flooding and Blowsand Projects – Phase One

Contact: Jonathan Hoy, Director of Transportation (jhoy@cvag.org)

Recommendation: Authorize the Executive Director to negotiate and execute a professional service agreement with Michael Baker International (MBI) to provide design, engineering and environmental services for the Western Coachella Valley Flooding and Blowsand Projects – Phase One

Background: For decades, there have been plans to provide all-weather bridges at the low-water crossings on Ramon Road, Vista Chino Drive, Indian Canyon, and Gene Autry Trail. All of them are expensive projects that require years to design and hundreds of millions of dollars of state/federal funds to build. In recent years, CVAG’s Transportation and Executive Committee have supported plans to find less expensive solutions to the roadways that frequently close due to flooding and blowsand. The change in approach came after the record-setting rainfall in February 2019 that prompted widespread flooding and blowsand issues on regional roadways. Indian Canyon, Gene Autry Trail, and Ramon Road were flooded at crossings of the Whitewater River stormwater channel. Emergency services personnel along with people travelling to work, school, doctor’s appointments, and other locations were stuck at a standstill for hours. The traffic woes were particularly problematic to and from Palm Springs and Desert Hot Springs, although it impacted drivers across the entire Coachella Valley.

Through a competitive process, CVAG in 2019 hired Michael Baker International to complete a study that identified options that will reduce risks to travelers while protecting critical plant and animal species at the specific locations. The goal was to identify, develop, and evaluate alternative concepts that provide a level of flood protection appropriate for the specific location. Where locations are heavily travelled, a 100-year storm frequency design was considered and a 10-year storm frequency designs was considered for less travelled roadways. The solutions also needed to be compatible with the Coachella Valley Multiple Species Habitat Conversation Plan (CVMSHCP), as well as comply with local, county, and state design guidelines and follow good sound engineering practices.

In addition to structural solutions, the study identified non-capital, non-structural solutions that could address public safety and immediate concerns accessing local and regional medical centers and provide continuous and uninterrupted services by first responders and emergency personal, such as vehicles that can move emergency personnel and patients through or over flood and dust zones. The study also identified short-term solutions to address flooding and

blowsand events, most notably the installation of changeable message signs that alert travelers in advance of roadway closures.

At the December 7, 2020, meeting, the CVAG Executive Committee considered the findings from the “Flood and Blowsand Risk Assessment and Improvement Plan for the Western Coachella Valley” and directed the Executive Director to coordinate with the Cities of Desert Hot Springs, Cathedral City and Palm Springs to further refine and advance the improvements identified in the study. The Flood and Blowsand assessment prioritized projects that would best fit the needs of the Western Coachella Valley during a flooding or emergency event, and they came at a substantially lower cost than previous solutions to frequently closed roadways. High, medium, and low priority rankings were assigned to projects based on emergency and evacuation access, traffic volumes and stormwater flows. After coordinating with the Cities of Desert Hot Springs, Cathedral City and Palm Springs, CVAG Transportation and Executive Committees in April 2021 prioritized improvements on North Indian Canyon Road (from Sunrise Parkway to Palm Station Road), Varner Road (from Mountain View Road to Date Palm Drive) and Date Palm Drive (from I-10 to Varner Road), which were identified in the study as project numbers INCN7, VRNR2, and DPLM5.

CVAG staff focused on finalizing a scope of work for the engineering and design stages of these projects. In May 2022, CVAG staff met with staff from the Cities of Desert Hot Springs, Cathedral City and Palm Springs on the three projects to obtain input on the approach. Based on the feedback, CVAG staff developed a Request for Proposals (RFP) in order to solicit bids from planning and engineering consultants for the required professional engineering services.

A Request for Proposal (RFP) was posted on July 6, 2022, and was widely circulated. CVAG received several inquiries from firms about the project and extended the deadline in order to give ample time for responses. However, only one proposal (as attached) was received by the August 16, 2022 deadline – from Michael Baker. Normally, CVAG would consider another extension to the deadline for the RFP or take other steps to encourage more submittals. However, CVAG staff heard from two large firms that, due to capacity, they would not be submitting. Additionally, Michael Baker brings unique experience and expertise to the project, and provided a strong proposal in response to the RFP. Michael Baker is a full-service consulting firm providing planning, engineering, surveying, and related professional services with staff in Ontario, Temecula, and Palm Desert offices serving the community of Coachella Valley since 1986. Michael Baker’s lead staff will primarily be from their Palm Desert office.

Michael Baker’s proposal was reviewed by a project development team that consisted of the staff from CVAG and the Cities of Desert Hot Springs, Palm Springs and Cathedral City. The scope of design work shall consist of improving the local agencies roads and bridges/culvert on the above-mentioned roads segments. Bridge/culvert structures shall be designed to convey 100-year flood events at Whitewater River, Chino Canyon Creek, Willow Wash, Long Canyon Wash crossings. The roads shall include bike lanes and mitigation measure improvements for blowsand.

The proposed improvements shall meet state standards and requirements. All work and resulting facilities shall fully conform to the requirements set forth by the Federal Highways Administration (FHWA) and Caltrans. The project also includes coordination with local jurisdictions, utility companies and other stakeholders. All work and resulting facilities will fully

conform to the current adopted Coachella Valley State Implementation Plan (CVSIP) for PM10 and including Best Management Practices during the construction process.

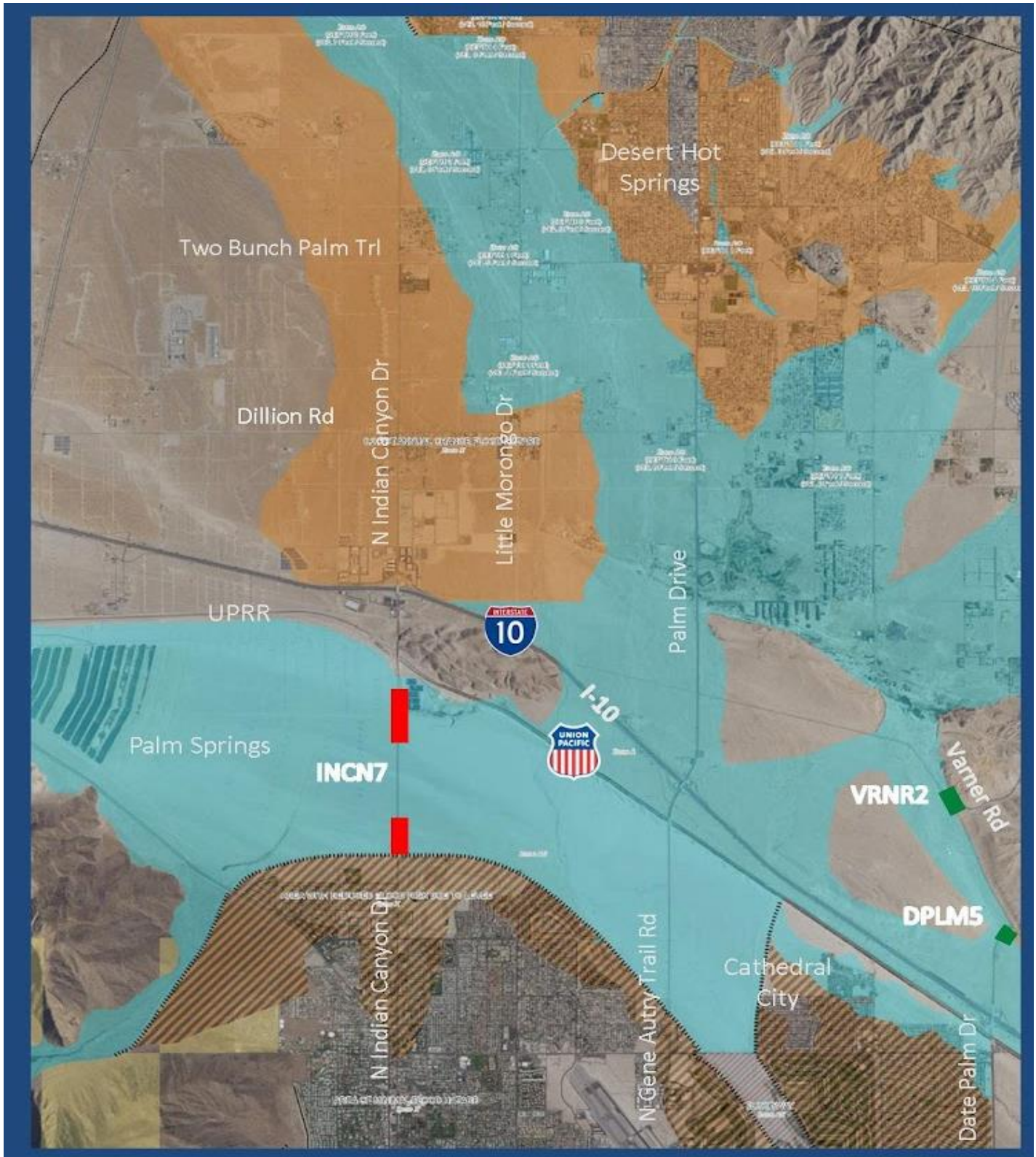
Staff is recommending the Executive Director be authorized to negotiate and execute a contract to proceed with the work on Indian Canyon Drive (INCN7), Varner Road (VRNR2) and Date Palm Drive (DPLM5), which are shown on the enclosed areal map. If approved, the design work shall start early October 2022. Staff will pursue a fast-track project management method, including having the three projects progressing concurrently in order to get them construction-ready as soon as possible.

Fiscal Analysis: The design and engineering phase of work required to advance these projects is estimated to be \$4-5 million. However, due to the timing of the RFP deadline, CVAG staff is still reviewing Michael Baker's cost proposal. Staff anticipates having an exact amount before this item is presented to the Executive Committee on September 26.

The 2017 estimate of cost for projects INCN7, VRNR2 and DPLM5, as identified in the Regional Arterial Cost Estimate (RACE) was \$266 million. The initial flooding and blowsand analysis identified an alternative concept design totaling \$39 million, an estimated \$227 million savings. If approved, CVAG staff will return for approval for cost share agreements to cover the local shares of the project costs.

Attachments:

1. Project location map for Flooding and Blowsand Projects
2. Michael Baker International Project Proposal



ENVELOPE #1

WESTERN COACHELLA VALLEY FLOOD AND BLOWSAND

ROAD IMPROVEMENT PROJECT



SUBMITTED TO
Coachella Valley Association of Governments
73-710 Fred Waring Drive, Suite 200
Palm Desert, CA 92236

AUGUST 16, 2022



SUBMITTED BY

Michael Baker
INTERNATIONAL

We Make a Difference

SECTION 1

LETTER OF TRANSMITTAL



Attention: Jonathan Hoy, PE
Director of Transportation
Coachella Valley Association of Governments
73-710 Fred Waring Drive, Suite 200
Palm Desert, CA 92236

AUGUST 16, 2022

RE: Western Coachella Valley Flood and Blowsand Road Improvement Project

TRANSMITTAL LETTER

Dear Mr. Hoy,


For over 75 years, Michael Baker International (Michael Baker) has been involved in the planning and design of public works infrastructure in California, the last 36 within the Coachella Valley. Having worked directly for CVAG and for individual local cities on transportation improvement projects, including on the preliminary study that led to this RFP, we have gained an appreciation for understanding how each local agency operates and the importance of clearly defining a specific work program, deliverables and schedule that meets their individual needs.

Michael Baker is excited to have the opportunity to continue our partnership with CVAG, building upon our development of alternative design and management concepts to mitigate the adverse impacts of flood and blowsand events. We are committed to fulfilling the project requirements for the Flood and Blowsand Road Improvement Project, Phase 1. Our Project Manager and primary contact for CVAG, Steve Latino, PE, TE has 22 years of experience with an emphasis on traffic engineering, municipal engineering, and in-house public works positions. Technical expertise for blowsand mitigation will be provided by Tanya Bilezikjian, PE, ENV SP, who has extensive experience working on blowsand mitigation within the Coachella Valley and Salton Sea Air Basin.



By selecting Michael Baker to provide engineering services for the Flood and Blowsand Road Improvement project, CVAG will gain a fully committed team with the following benefits:

- A project team that is experienced in developing solutions (structural and non-structural) that are feasible in the short term, cost-effective, environmentally compatible, reasonable and sustainable. Michael Baker prepared the previous three TPPS plans for CVAG and will use that institutional knowledge to guide alternative analysis and proposals.
- In-house environmental specialist, community outreach advisor, hydrologist, landscape architecture, civil, traffic, survey, and structural services to facilitate efficient, cost effective "conceptual" plans.
- Ability to provide accurate, complete, quality construction cost estimates and construction feasibility support.
- Identify viable alternative funding and financing options available for proposed design concepts.
- Long term commitment, since 1986, to sustainable infrastructure improvements.

1.a Identification of Consultant

Name	Corporate Address	Fax Number	Contact
Michael Baker International, Inc. 	75-410 Gerald Ford Drive, Suite 100 Palm Desert, CA 92211	N/A	Steve Latino, PE, TE Associate Vice President/Department Manager - Transportation/Public Works 75-410 Gerald Ford Drive, Suite 100 Palm Desert, CA 92211 760-776-6145

1.b Proposed Subcontractors

Subconsultant	DBE	Contact
Cogstone Resource Management 		Molly Valasik Project Manager 1518 W. Taft Ave., Orange County, CA 92865 419-344-3622
Contech Engineered Solutions LLC 		Andrew Runk Regional Bridge Consultant 9025 Centre Pointe Dr., Suite 400 West Chester, OH 45069 303-241-8154
Monument ROW 		Amber Costello President 200 Spectrum Center, Suite 300, Irvine, CA 92618 562.260.0507
Earth Mechanics, Inc. 		Alahesh Thurairajah, PE, GE, Principal 17800 Newhope St, Ste B Fountain Valley, CA 92708 714.751.3826

1.c Acknowledgment of Receipt of RFP Addenda

Michael Baker acknowledges the receipt of the following addenda in relation to this RFP:

- Addendum No. One - July 29, 2022

1.d Acknowledgment of Proposal Validity Period

Michael Baker acknowledges that this proposal shall remain valid for a period of not less than 180 days from the date of submittal.

1.e Conflict of Interest Statement

Michael Baker does not have any personal, business, or financial relationship with the Contractors and Subcontractors that will be pursuing the Flood and Blowsand Road Improvement project.

The following pages of our proposal describes the Michael Baker team's qualifications and expertise in detail, including references for representative projects. Please contact me at 760-776-6145 (Steven.Latino@mbakerintl.com) if you have any questions during your evaluation process. The below-signed affirms that all information submitted with the proposal is true and correct.

Sincerely,



Steven Latino, PE, TE
 Project Manager
 760-776-6145
 Steven.Latino@mbakerintl.com

SECTION 2

TECHNICAL PROPOSAL



SECTION 2.1

QUALIFICATIONS, EXPERIENCE, AND REFERENCES TO CONSULTANT

2.1 QUALIFICATIONS, RELATED EXPERIENCE, AND REFERENCES TO CONSULTANT

MICHAEL BAKER RESOURCES



FOUNDED IN
1940

3,500+ EMPLOYEES
NATIONWIDE

90+ OFFICES
NATIONWIDE

600+ PROFESSIONALS
IN CALIFORNIA

12 OFFICES
IN CALIFORNIA

2.1.1 Michael Baker Firm Profile

Michael Baker International, Inc. (Michael Baker) is a full-service consulting firm providing planning, engineering, surveying, and related professional services with staff in our Palm Desert office serving the community of Coachella Valley since 1986. Michael Baker is a recognized expert in the fields of highway and roadway design, active transportation and multimodal applications, traffic studies, flood control and drainage design, bridge design, Intelligent Traffic Systems (ITS), water quality, survey/mapping, water resources, environmental planning, and regulatory permit services throughout the State of California. With a staff of over 500 in southern California, and 3,500 nationwide, Michael Baker has the depth of staff and multi-disciplinary expertise to work collaboratively with CVAG, involved agencies, and the public to WHAT? Michael Baker is currently supporting public agencies (including Metro, County of Los Angeles, City of Los Angeles, Caltrans, Port of Long Beach, Orange County Transportation Authority

2022 ENR RANKINGS

THE TOP
500
DESIGN FIRMS

- 28** Top 500 Design Firms
- 17** Top Pure Designers
- 5** Bridges
- 6** Dams and Reservoirs
- 12** Water Supply
- 13** Transportation
- 15** Construction Management
- 16** Highways
- 17** Airports
- 24** Mass Transit and Rail

(OCTA), San Bernardino County Transportation Authority (SBCTA), and Riverside County Transportation Commission (RCTC) to name just a few) on a wide variety of diverse, multi-discipline infrastructure improvement projects.

2.1.2 Michael Baker's Financial Condition

Michael Baker has no bankruptcy, pending litigation, closures or mergers that would impede our ability to complete this Project. Through our dedication to client satisfaction, we maintain a consistent, healthy staff based on projected backlog.

2.1.4. Experience with Jurisdictional Government Agencies and Private Entities

Michael Baker's Caltrans experience includes the preparation of over 100 Caltrans Design Reports (PSR, PR, and combined PSR/PR's), as well as final PS&E for over 200 projects totaling over \$8B in improvements on state highways comprising over 18,000 plan sheets in accordance with Caltrans standards. We have also completed over 300 task orders on a wide variety of Caltrans on-call contracts in Districts 5, 7, 8, and 12, as well as with Caltrans Division of Environmental Analysis (water quality) and Engineering Services Center (structures).

In addition, Michael Baker, through over 50 on-call planning and design contracts, and well over a thousand individual off-state highway and multimodal improvement projects for local agencies, brings a broad expertise to CVAG that can be leveraged to deliver any task for the Flood and Blowsand Road Improvements project.

With this broad base of project experience, Michael Baker and our key personnel possess strong relationships within the many agencies involved in the development and approval process. This includes multiple regional

transportation authorities and Caltrans Districts, FHWA, local cities and counties and numerous resource agencies and third-party entities such as utility companies and public stakeholders.

2.1.5 Michael Baker's Relevant Project Experience

Michael Baker's representative projects, presented on the following pages, demonstrate our experience and successful delivery for of similar work to the Flood and Blowsand Road Improvement project across all eight elements identified in the scope of work. As demonstrated in these project descriptions, Michael Baker brings a wealth of expertise in developing solutions to complex challenges, meeting or exceeding project schedules and interfacing with local, state, regional transportation agencies, council of governments, and federal agencies.



Flood and Blowsand Mitigation Services

Coachella Valley, CA

Michael Baker provided engineering services to help mitigate flood and blow sand risks in the Coachella Valley. The purpose of the project was to keep regional roads open during severe flood and blow sand events. Michael Baker helped identify risks and potential mitigation strategies, outlined potential environmental impacts and project permitting that would be required, and provided a budget-level estimate including design, right-of-way, permitting, construction, and other costs associated with the mitigation. It also prepared alternative concepts for each area of concern and provided stakeholder engagement services.

Alternative concepts were prioritized based on several criteria. First was the probability of risk events occurring and the level of impact resulting from those

events. Areas of concern with the greatest risk were considered highest priority for mitigation against future flooding and blow sand events. Second was the possibility of aligning projects with opportunities to address potential social and economic impacts as well as habitat conservation and restoration and funding and financing opportunities. Michael Baker summarized other related planned capital improvement plans to identify opportunities to package flood and blow sand projects with those projects. Road surface conditions, system continuity, level of service, accident rate, project costs, and potential funding opportunities were also considered. Lastly, Michael Baker considered input from stakeholders including Riverside County Flood Control, City of Palms Springs, City of Desert Hot Springs, and Cathedral City.

2.1.6 Michael Baker's References

1. Joel Montalvo, PE
City Engineer
City of Palm Springs
3200 E. Tahquitz Canyon Way
Palm Springs, CA 92262
760-322-8339
2. Timothy Wassil, PE
Public Works Director
City of Indio
100 Civic Center Mal
Indio, CA. 92201
760-391-4018
3. Deborah de Chambeau, MS, PE, CFM
Chief of Planning Division
Riverside County Flood
Control and Water
Conservation District
1995 Market Street,
Riverside, CA 92501
951-955-1491
4. Andy Leung, PE
Special Projects Section |
Senior Civil Engineer
Riverside County Flood
Control and Water
Conservation District
1995 Market Street,
Riverside, CA 92501
951-955-1268



Client:

Coachella Valley
Association of
Governments (CVAG)

Contact:

Jonathan Hoy, PE
Director of Transportation
CVAG
73-710 Fred Waring Drive,
Suite 200
Palm Desert, CA 92236
760-346-1127

Proposed Team Members:

Todd Pitner

Relevance:

- CVAG Project
- Risk mitigation
- Cost estimates
- Alternatives development
- Stakeholder engagement



Date Palm Drive Bridge over the Whitewater River

Cathedral City, CA

Michael Baker prepared final PS&Es for street and storm drain improvements, modification of two traffic signals, traffic signal interconnect system, signing and striping, and stage construction and traffic control for the widening of Date Palm Drive and the Date Palm Drive Bridge (757' in length) over the Whitewater River. Michael Baker worked closely with many stakeholders and numerous utility owners to obtain several necessary permits.

Since the project is partially funded using Highway Bridge Program monies, there has been significant involvement with Caltrans in preparing the documentation necessary to secure funding for design, ROW acquisition, and construction.

The bridge work consisted of widening the bridge from four to six lanes; seismically

retrofitting the structure to meet current design standards and rehabilitating the bridge deck to extend the service life. Other work included widening Date Palm Drive to accommodate the widened bridge, access and on-site modifications to several businesses, traffic signal modifications and extensive traffic handling/construction phasing plans.

The project also included coordination with several utility owners and plans were prepared for utility relocations including water, sewer, cable television, electric, telephone, and natural gas facilities. Michael Baker was also responsible for the ROW clearance process including appraisals and acquisition negotiations for four (4) privately owned parcels plus two (2) tribal owned parcels.

Miles Avenue Bridge over the Whitewater River

Indio, CA

Michael Baker prepared preliminary design, environmental documents and Plans, Specifications, and Estimates (PS&E) for this project. In addition to the design of the new bridge over the Whitewater River, Michael Baker's work included channel hydraulics analysis and the design of more than one mile of roadway widening along Miles Avenue and Clinton Street. The new 585-foot long, four-lane bridge provides a critical all-weather crossing of the Whitewater River in the City of Indio and replaces the existing two-lane dip crossing which was highly susceptible to flooding and required costly reconstruction

following moderate storm events. The bridge is designed as a cast-in-place, post-tensioned, concrete box girder, supported on four-column bents with large diameter drilled shaft foundations. Critical profile and hydraulic constraints led to the use of a "haunched" girder design to meet freeboard requirements while passing the Standard Project Flood. This minimized impact to the roadway profile and extent of reconstruction of the approach roadways. Channel scour was also a critical issue and was addressed in the design by utilizing large diameter drilled shaft foundations.

Client:

City of Cathedral City

Contact:

John Corella
City Engineer
68700 Avenida Lalo
Guerrero
Cathedral City, CA
760-770-0327

Proposed Team Members:

Todd Pitner

Relevance:

- Bridge design
- Widening
- Seismic retrofitting
- Hydrology and hydraulics
- Multi-agency coordination
- Environmental permitting
- Delineation of jurisdictional waters
- Natural environment study minimal impact

Client:

County of Riverside
Transportation
Department

Contact:

Cindi Wachi
Engineering Division
Manager
County of Riverside
Transportation Dept.
P.O. Box 1090
951-955-6800

Proposed Team Members:

Steven Giffen

Relevance:

- New 585-foot-long, 4-lane bridge
- Structural design
- Channel hydraulics analysis
- Over 1 mile of roadway widening
- Landscape design



Eldorado Drive Bridge over the Whitewater River

Indian Wells, CA

Michael Baker completed final plans, specifications, and estimates (PS&E) for a new 88-foot wide by 445-foot long, five-span, cast-in-place, post-tensioned concrete box girder bridge over the Whitewater River.

The bridge replaced an existing “dip” crossing of the Whitewater River. Seat type abutments and three column bents are supported on driven concrete piles. The bridge is constructed on a 1,350 foot radius curve with abutments and bents parallel to the channel centerline. Phase I of the project developed the bridge general plan, roadway profile, and hydraulic analysis to pass the Standard Project Flood ($Q = 82,000$ cfs) through the bridge. Hydraulic analysis was reviewed and approved by the Coachella

Valley Water District (CVWD). Footings were placed below the calculated local scour depths.

In addition to bridge plans, Michael Baker engineers completed final plans for the new street profile, grading and construction plans required due to the new road profile, as well as plans for storm drain, waterline relocation, stage construction, signing, striping, and signal modifications.

This project was completed by Michael Baker on an accelerated schedule to ensure that construction could be completed early.

Michael Baker created this computer visualization of the completed bridge on a site photo for the City to assess view impacts at the site.

Client: City of Indian Wells

Contact:

Tim Wassil, PE, Public Works Director- City of Indio, 100 Civic Center Mall Indio, CA 92201 (760) 391-4042

Proposed Team Members:

Brad Mielke

Relevance:

- New bridge over the Whitewater River
- Accelerated schedule
- Multi-agency coordination

Jefferson Street Bridge over the Whitewater River

La Quinta, CA

Michael Baker prepared the preliminary design, environmental documents, and plans, specifications, and estimates (PS&E) for this project in La Quinta, California. In addition to design of the new bridge over the Whitewater River, Michael Baker’s work included channel hydraulics analysis and design for the widening of more than two and a half miles of Jefferson Street, from Highway 111 to Indio Boulevard. Right-of-way surveying included analysis and calculations for land base map and the preparation of over 100 legal descriptions for acquisition. The new 500-foot long, six-lane bridge will provide a critical all-weather crossing of the Whitewater River and will replace the existing two-lane dip crossing which was highly susceptible to flooding and required costly reconstruction following moderate storm events. The

bridge was designed as a cast-in-place, post-tensioned, concrete box girder, supported on four-column bents with large diameter drilled shaft foundations. Critical profile and hydraulic constraints led to the use of a “haunched” girder design to meet freeboard requirements while passing the standard project flood. This minimized impact to the roadway profile and extent of reconstruction of the approach roadways. Channel scour was also a critical issue and was addressed in the design by utilizing large diameter drilled shaft foundations. The bridge is being constructed in stages to maintain traffic during construction.

Client: County of Riverside Transportation Department

Contact:

Cindi Wachi
Engineering Division Manager
County of Riverside Transportation Dept.
P.O. Box 1090
951-955-6800

Proposed Team Members:

Christopher Alberts,
Steven Giffen

Relevance:

- Structural design
- Channel hydraulics analysis/ storm drain design
- 2-1/2 miles of roadway widening
- Special bridge architectural design
- Retaining wall design
- Environmental document
- Survey/right-of-way



Adams Street Bridge

La Quinta, CA

Michael Baker worked closely with the City of La Quinta and Caltrans Local Assistance to provide a diverse suite of technical guidance for the proposed bridge improvement project, which spans the Coachella Valley Stormwater Channel at Adams Street. This project replaced the existing low water crossing with a bridge which provides the City with a more reliable arterial roadway during inclement weather for both the general public as well as emergency personnel. The bridge is 440 feet long and 76 feet wide. The project will be constructed within the existing roadway right-of-way and will not increase capacity. The typical section includes a six-foot sidewalk on both sides of the bridge, a twelve foot raised curb median island,

and four travel lanes. In addition, the design provided for a recreational trail undercrossing of the bridge at the southern abutment for the future Whitewater Channel trail system. As a grantee of FHWA's Highway Bridge Replacement and Rehabilitation (HBRR) Program, the City of La Quinta is addressing both NEPA and CEQA regulatory requirements. Michael Baker managed the preparation of several technical studies to support a joint Initial Study/Categorical Exclusion (IS/CE).

This \$9.2million project provides a four lane roadway and bridge with raised median north of Highway 111 to Westward Ho Drive. The project was recently completed and opened to traffic in September 2013.

Client: City of La Quinta

Contact:

Tim Jonasson
Public Works Director
78-495 Calle Tampico
La Quinta, CA 92253
760-777-7042

Proposed Team Members:

Christopher Alberts, Chad Harden, Brad Mielke, Eddie Torres

Relevance:

- CEQA / NEPA Clearance
- Utility Coordination / Relocation
- Channel Hydraulics Analysis
- Bridge Design
- Roadway Design

Santa Ana River Parkway Trails Extension

Orange County, CA

Michael Baker prepared final design plans, specifications, and estimate (PS&E) for the Santa Ana River Parkway Extension project, which will construct a 2.6-mile extension of bikeway, riding, and hiking trails systems from Gypsum Canyon Road to the Orange County Line, in coordination with OCPW, Orange County Parks, and the Army Corps of Engineers.

The Santa Ana River Parkway is a landscaped greenway that follows the Santa Ana River. Its Class-I bikeway accommodates pedestrians and recreational cyclists, while its unpaved trail benefits joggers, hikers, mountain bikers, and equestrians. Orange County Public Works (OCPW) is seeking to extend and connect the trail to future improvements in Riverside and San Bernardino Counties.

Michael Baker prepared civil PS&E for the 2.6 miles of walking, biking, and horse-riding trails, and completed a river hydraulics model and bridge scour study to support the proposed improvements. Michael Baker also prepared structural PS&E for three prefabricated steel bridge crossings, one retaining wall, and a staging area with utilities connections. The bridges are supported on drilled shafts and accommodate the scour and hydraulic freeboard requirements of the Santa Ana River.

Client: Orange County Public Works

Contact:

Robert Sanchez
Jr. Civil Engineer
OC Public Works | OC
Infrastructure Programs |
Project Management
(714) 245-4566

Proposed Team Members:

Steven Giffen, Brad Mielke, Frank Tran

Relevance:

- Trail design
- Bikeway design
- Topographic Field Survey & Legal Descriptions
- Utility Coordination
- Bridge Type Selection and Final Structural Design
- Geotechnical Investigation
- Hydrology, Hydraulics and Scour Analysis



Santa Ana River Reach 9 - Phase 2B - Access Roadway, Bridge, and Bike Trail Detour

Riverside and Orange Counties, CA

Baker, as part of the Genterra Consultants, Inc. team, was requested to simultaneously complete two fast-track task orders for the U.S. Army Corps of Engineers (Corps) Los Angeles District for the Santa Ana River Reach 9 - Phase 2B project adjacent to and within S.R. 91 right-of-way from just east of the Coal Canyon wildlife corridor crossing to just east of the Orange-Riverside County Boundary. The overall proposed project will improve the embankment protection along S.R. 91 for the Santa Ana River since upgrades were completed to the Prado Dam immediately upstream of the project site, and the project will realign the river to accommodate the future S.R. 91 Corridor Improvement Project (CIP). American Recovery and Reinvestment Act (ARRA) funding was secured for the project and required that construction contract plans and specifications design be prepared within a six week time frame to comply with the Corps' schedule for the bidding and award of the project.

Task Order 1 included the design of the new access driveway and bridge for the Green River Golf Club. The project included the complete design of a 130-foot single span cast-in-place structure, and approximately 2,000 linear feet of roadway. The access driveway was designed so as not to obstruct the Santa Ana River design flow of 30,000 cfs to cause a backwater effect within the Santa Ana River upstream of the proposed access driveway and bridge. Additional items completed by Michael Baker as a part of this task order included the design

of a relocated City waterline, landscaping and monument sign plans for the new entry, final quantities and specifications, utility coordination, concept design, and dual-compliance of Corps plans and specifications with Caltrans standard plans and specifications for project elements within Caltrans right-of-way.

Task Order 2 included the preparation of final design construction contract plans, and specifications for a bike trail detour and construction staging plan (includes three stages) for the overall project construction. A portion of the overall project and bike trail detour are located in Caltrans right-of-way, and Michael Baker was tasked with obtaining an approved encroachment permit from Caltrans Districts 8 and 12 for the entire project within the project timeframe of approximately six weeks. The bike trail detour also included the design for installation and removal of a bridge structure for the phased trail use. Additional work under this task order included a Storm Water Data Report, assistance with the environmental documentation, Water Board's 401 certification, and electrical plans to re-establish service affected by the channel construction and for lighting of the new entrance monument.

Client: U.S. Army Corps of Engineers, Los Angeles District

Contact:

Robert H. Kwan
Technical Manager
915 Wilshire Blvd, Los Angeles, CA 90017
213-452-3639

Proposed Team Members:
Steven Giffen

Relevance:

- River Realignment
- New Access Driveway and Bridge
- Bike Trail Detour and Temporary Bridge
- Project Construction Staging Plans
- Utilities Design and Coordination
- Landscape Architecture

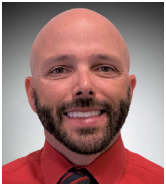
SECTION 2.2

PROPOSED STAFFING AND PROJECT ORGANIZATION

2.2 PROPOSED STAFFING AND PROJECT ORGANIZATION

2.2.1 PROJECT MANAGER / KEY PERSONNEL

Michael Baker is pleased to present a team of highly qualified professionals to provide the CVAG with the necessary engineering services for the Flood and Blowsand Road Improvement Projects in the Coachella Valley.



Steven Latino, PE will serve as Project Manager and will have direct and continued responsibility for the project. Mr. Latino will be CVAG's contact on all matters dealing with the project and will handle all day-to-day activities through completion.

Mr. Latino has managed a wide array of projects throughout his municipal career including street lighting, roadway improvements and rehab, signing and striping, and traffic signals. Due to his extensive time served in the Public Sector, Mr. Latino is very knowledgeable of local regulations as well as working with various agencies including Western Riverside Council of Governments (WRCOG), Riverside County Transportation Commission (RCTC), San Bernardino County Transportation Authority (SBCTA), and Caltrans.



Christopher Alberts, PLS, as the Principal, will provide oversight of Mr. Latino and his team with the preparation of plans and specifications in conformance with local requirements. His past experience with similar projects will be invaluable in the preparation of specifications to assure

compliance.



Kevin Perko, PE will serve as Assistant Project Manager to support Mr. Latino in the day-to-day project design elements. He is knowledgeable and experienced in the related areas of transportation design, bridges, scour analysis and countermeasure design, utility

coordination, permitting, environmental clearance and compliance.



Tanya Bilezikjian, PE, ENV SP is a strategic manager, who is an established leader in the engineering consulting industry and has managed multiple Stormwater and National Pollutant Discharge Elimination System (NPDES) contracts throughout Southern California. She is decisive,

result-focused and has an exceptional talent to lead cross-functional teams to identify program needs, assess

resources, and collaborate with Team personnel ensuring projects are delivered on time, on scope, and within budget. She has direct experience supporting large regional clients with program development and execution, agency negotiations, and development of innovative solutions to promote cost savings. She has the innate ability to link every task performed to specific program goals, thereby ensuring time and effort of teams are effective and valuable at supporting program objectives. Her experience managing large programs, representing client's interests, planning and executing multi-million-dollar contracts and task orders, will support a structured approach to program management that will increase efficiency in program delivery and save time, capital, and resources.

2.2.2 PERSONNEL QUALIFICATIONS MATRIX

The table below and on the following pages summarizes our project team's roles for this contract, as well as their education and registration.

2.2.3 KEY PERSONNEL AVAILABILITY AND COMMITMENT TO CVAG

We understand and share CVAGs desire for a consistent team throughout contract duration and have identified an experienced team selected for their ability to successfully deliver the Scope of Services, as well as their availability to commit from contract initiation through completion.

Michael Baker takes a proactive and supportive approach to talent management and retention that ensures continuity for clients while providing opportunities for our diverse workforce. However, changes in personnel can occur outside of our control. In the event changes in personnel become necessary, we would immediately communicate this to CVAG along with a recommendation of a qualified replacement and will wait for concurrence before proceeding with the personnel changes. Once approved, a detailed kick-off meeting will occur with the new staff to transfer knowledge, define expectations, and immediately integrate the team member into the project to avoid any disruption to the project. Michael Baker understands the importance of delivering a balanced and highly communicative consultant team that is capable of withstanding personnel changes without missing a beat.

Name / Role	Years Exp.	Professional Registration / Education	Project Experience
Christopher Alberts Principal Michael Baker INTERNATIONAL	28	<ul style="list-style-type: none"> ■ Professional Land Surveyor, California, 2008, 8508 	<ul style="list-style-type: none"> ■ Whitewater Channel Slope Protection, Coachella, California. Coachella Valley Water District. Surveyor. ■ Rancho Las Flores Park Master Plan - Phase 1, Coachella, California. City of Coachella. Surveyor. ■ Interstate 10 / Monterey Avenue Interchange, Palm Desert, California. City of Palm Desert. Survey Manager.
Steven Latino Project Manager Michael Baker INTERNATIONAL	18	<ul style="list-style-type: none"> ■ Professional Engineer, Civil, California, 2008, C73430 ■ Traffic Engineer, California, 2019, TR2902 	<ul style="list-style-type: none"> ■ City of Indian Wells, Highway 111 Pavement Rehabilitation ■ City of Indian Wells, Club Drive Complete Streets and Local Street Rehabilitation ■ City of Indio, Jackson Street Clean California Grant Improvements- ■ Riverside County Transportation Department, San Timoteo Canyon Rd and Redlands Blvd Traffic Signal Project ■ City of Temecula, Murrieta Creek Bridge at Overland Drive Project
Kevin Perko Assistant Project Manager Michael Baker INTERNATIONAL	36	<ul style="list-style-type: none"> ■ Professional Engineer, Florida, 1990, 43386 ■ Professional Engineer - Civil, Arizona, 2003, 39619 ■ Envision Sustainability Professional, Arizona, 2021, 31392 	<ul style="list-style-type: none"> ■ Canyon River Ranch - Town Bridge Crossing. Town of Payson. Quality Control Reviewer. ■ Pusch View Lane Bridge over the Rooney Wash. Town of Oro Valley. Project Engineer. ■ SR 520 Bridge Replacement over the St Johns River (Orange County, Florida). Florida Department of Transportation, District 5. Project Engineer. ■ Idaho Hwy 16 from US20 to Idaho 44 - QC Manager for the roadway design, bridge design and hydraulic analyses for the new two-mile divided highway and bridge over the Boise River.
Brad Mielke QA/QC Michael Baker INTERNATIONAL	44	<ul style="list-style-type: none"> ■ Structural Engineer, Arizona, 1998, 32611 ■ Structural Engineer, California, 1986, 2817 ■ Professional Engineer - Civil, California, 1981, 33334 ■ Registered Disaster Service Worker, California, SA0158 ■ Professional Engineer - Civil, Washington, 2019, 19110557 ■ Professional Engineer - Civil, Nevada, 1989, 007269 	<ul style="list-style-type: none"> ■ S.R 91 Corridor Improvement Project, Riverside and Orange Counties, California. Riverside County Transportation Commission. Technical Manager. ■ Scott's Flat Dam Tunnel and Penstock Structural Integrity Analysis, Nevada City, California. Nevada Irrigation District. Principal-In-Charge, Responsible for project oversight. ■ Coachella Valley Stormwater Channel from Industrial Way to North of Avenue 54. Coachella, California. Principal-in-charge and Structural design engineer.
Tanya Bilezikjian QA/QC Michael Baker INTERNATIONAL	21	<ul style="list-style-type: none"> ■ Construction General Permit Trainer of Record, California, 2010 ■ Professional Engineer - Civil, California, 2008, 72119 	<ul style="list-style-type: none"> ■ Southern California Edison (SCE) - Multiple Environmental On-Call Contractors, Throughout SCE Service Area, California. Southern California Edison Company. Contract Manager. ■ Caltrans - District Assistance (Contract No. 43A0176), Southern California, Caltrans. Task Manager.

Name / Role	Years Exp.	Professional Registration / Education	Project Experience
<p>Elizabeth Meyerhoff Environmental</p> <p>Michael Baker INTERNATIONAL</p>	16	<ul style="list-style-type: none"> ■ Post-Baccalaureate Certificate, 2010, Land Use and Environmental Planning, University of California, Riverside Extension ■ B.A., 2004, Sociology, University of California, Riverside ■ In Progress - Executive Certificate Program, Organizational Leadership, University of California, Riverside Extension 	<ul style="list-style-type: none"> ■ North Cathedral City SW Imprv. Coachella Valley Water District. Environmental Planner. ■ Palm Desert On-Call Services. City of Palm Desert. Environmental Manager. ■ Coachella Valley Stormwater Channel Improvement Project, Avenue 54 to Thermal Drop Structure Environmental Impact Report and Regulatory Permitting. Coachella Valley Water District. CEQA Manager.
<p>Shelah Riggs Regulatory</p> <p>Michael Baker INTERNATIONAL</p>	22	<ul style="list-style-type: none"> ■ M.S., 2002, Environmental Studies, California State University at Fullerton ■ B.A., 1998, Geography, California State University at Fullerton 	<ul style="list-style-type: none"> ■ Emerald Ridge (TTM 368471). Highpointe Communities. Project Manager. ■ Southwest Gas Stormwater Services, Victorville, California. Southwest Gas Corporation. Environmental Permit Coordinator. ■ On-Call Peer Review Support. Riverside County. Environmental Planner.
<p>Margaret Borneyasz Regulatory</p> <p>Michael Baker INTERNATIONAL</p>	25	<ul style="list-style-type: none"> ■ California Rapid Assessment Method, Riverine 	<ul style="list-style-type: none"> ■ Biological Services Task Order Contract for Caltrans District 8 – Caltrans District 8 ■ Environmental Generalist Services Task Order Contract for Caltrans District 7, Los Angeles County – Caltrans District 7. ■ CV Link Multi-Modal Transportation Corridor Project – Coachella Valley Association of Governments
<p>Eddie Torres Air/Noise/GHG</p> <p>Michael Baker INTERNATIONAL</p>	23	<ul style="list-style-type: none"> ■ Institute of Noise Control Engineering, 2002 ■ 2.1.1 Traffic Noise Analysis, California ■ 2.2.1 Air Quality Analysis, California 	<ul style="list-style-type: none"> ■ Interstate 10/Jefferson Street Interchange Improvements, Indio, California. ■ Garnet Street Bridge Replacement Three-Year On-Call, Hemet, California. ■ Laguna Canyon Creek Erosion Protection and Habitat Restoration Project, Laguna Beach, California.
<p>Molly Valasik Cultural</p> <p>cogstone PALEONTOLOGY - ARCHAEOLOGY - HISTORY</p>	11	<ul style="list-style-type: none"> ■ Registered Professional Archaeologist (RPA; 989162) 	<ul style="list-style-type: none"> ■ Park Place Extension and Grade Separation EIR EA. City of El Segundo, Los Angeles County, California. ■ Interstate 605/Katella Avenue Interchange Improvements Project. Orange County, California. ■ Magnolia Avenue Improvements. City of Riverside, Riverside County, California.
<p>Margo Nayyar Tribal</p> <p>Michael Baker INTERNATIONAL</p>	12	<ul style="list-style-type: none"> ■ M.A., 2013, Public History, California State University at Sacramento ■ B.A., 2006, History, University of California, Santa Cruz 	<ul style="list-style-type: none"> ■ Clay Street Hangtown Creek Bridge Replacement EIR, Placerville, California. ■ Inland Branch 2020 Fire Emergency Clean-Up Response Program, Inland Branch, California ■ Kaiser Permanente Moreno Valley Medical Center MMRP, Moreno Valley, California
<p>Carla Dietrich Traffic</p> <p>Michael Baker INTERNATIONAL</p>	25	<ul style="list-style-type: none"> ■ Professional Engineer, Pennsylvania, 2004, PE070655 ■ Professional Traffic Operations Engineer, 2008, 2468 ■ Professional Engineer, Connecticut, 2003, PEN.0022832 ■ Professional Engineer, Louisiana, 2010, 35480 	<ul style="list-style-type: none"> ■ La Entrada Specific Plan, Coachella, California ■ Transportation Project Prioritization Study and Regional Arterial Cost Estimate Update, Coachella Valley, California. ■ Rim of the World Active Transportation Plan, California.

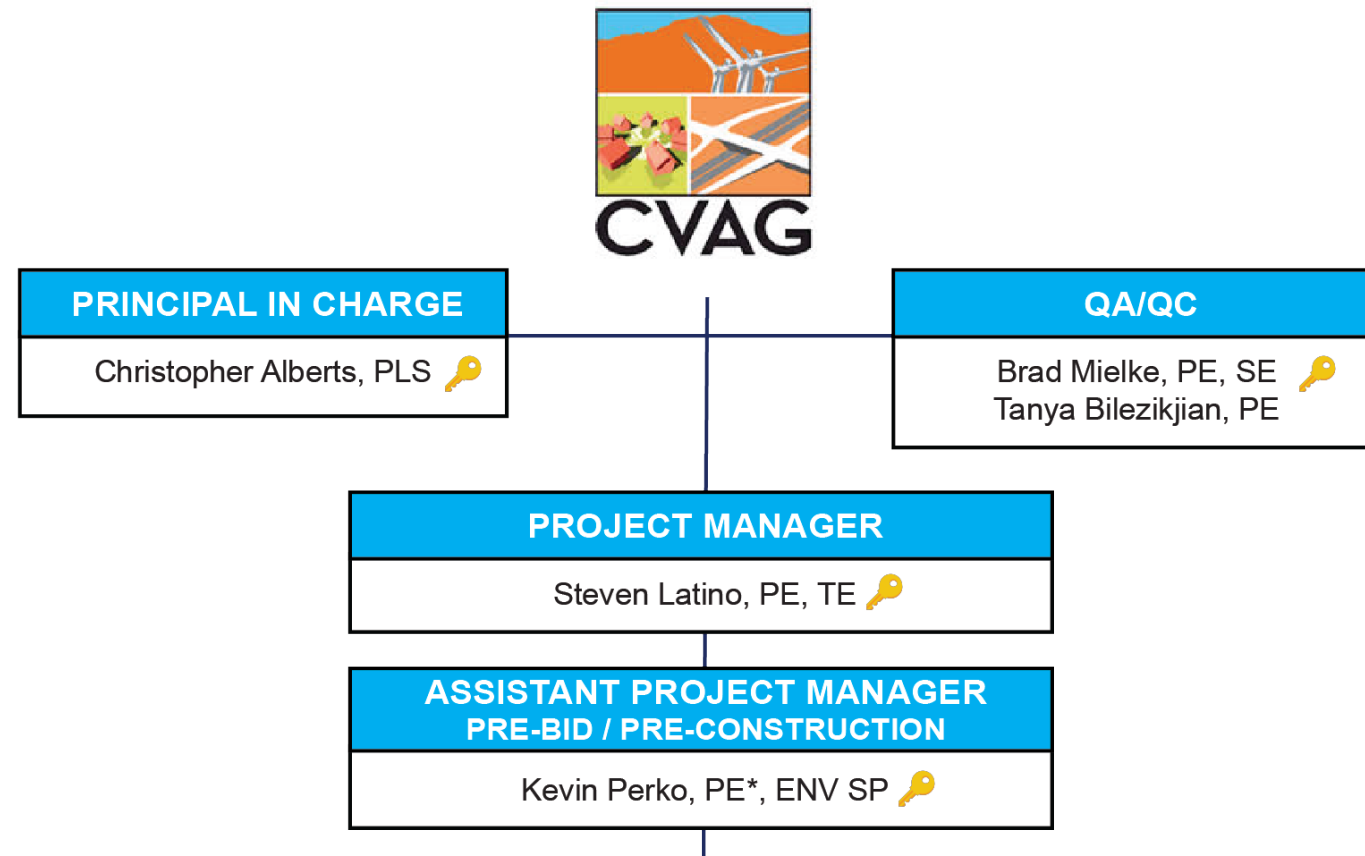
Name / Role	Years Exp.	Professional Registration / Education	Project Experience
Chad Harden Structures Lead Michael Baker INTERNATIONAL	19	<ul style="list-style-type: none"> ■ Professional Engineer - Civil, California, 2005, 67648 ■ Structural Engineer, California, 2008, 5232 	<ul style="list-style-type: none"> ■ I-10 Express Lanes Design Build, San Bernardino County. SBCTA. Structures Task Lead. ■ Blackstone (Formerly Known as Tonner Hills), Brea, California. Shea Homes LP, So Cal Div. Structural Engineer. ■ Garnet Street Bridge Replacement Three-Year On-Call. Hemet, California. San Bernardino County. Engineer.
Phillip Creamer Superstructure/Pre-Fabricated Structures NTECH ENGINEERED SOLUTIONS A QUIKRETE COMPANY	21	<ul style="list-style-type: none"> ■ B.S. & M.S. Civil Engineering University of Kentucky ■ PE Ohio January 2000 ■ PE California June 2002 ■ ASCE Member 	<ul style="list-style-type: none"> ■ Clinton Keith Highway Extension Phases 1 & 2, Riverside County, Structural Design Engineer of Record ■ Lone Pine Road Crossing - San Bernardino County, Structural Design Engineer of Record ■ Avion - Lennar Homes, San Diego County, Structural Design Engineer of Record ■ 3 Roots - Lennar Homes, San Diego County, Structural Design Engineer of Record ■ McSweeny Parkway and State Street - of Hemet, Structural Design Engineer of Record ■ State Route 18 - CALTRANS, Structural Design Engineer of Record ■ State Route 173 - CALTRANS, Structural Design Engineer of Record
Steven Giffen Scour Analysis Michael Baker INTERNATIONAL	44	<ul style="list-style-type: none"> ■ Professional Engineer - Civil, California, 1987, 42154 ■ Fish Passage and Stream Restoration Design Training, Washington, 2021, FPT20-16957 	<ul style="list-style-type: none"> ■ Avenue 50 Bridge Over Coachella Valley Storm-water Channel, Coachella, California. City of Coachella. Senior Civil Engineer. ■ Morongo Creek Flood Hazard Evaluation and Channel Design, Coachella Valley, California. Coachella Valley Water District. Senior Civil Engineer. ■ South Norco Channel Stage 2 Improvement Project, Norco, California. Riverside County Flood Control Water Conservation. Senior Civil Engineer.
Todd Pitner H&H Lead Michael Baker INTERNATIONAL	27	<ul style="list-style-type: none"> ■ Professional Engineer - Civil, California, 1998, 58606 ■ Qualified SWPPP Developer (QSD), California, 2015, 00550 ■ Qualified SWPPP Practitioner (QSP), California, 2015, 00550 ■ Real Estate License, California, 2010, 01864200 ■ OSHA 40-Hour HAZWOPER Certification 	<ul style="list-style-type: none"> ■ Flood and Blow Sand Mitigation Services, Coachella Valley, California. Coachella Valley Association of Governments (CVAG). Project Manager. ■ Santiago Canyon College Erosion and Sediment Control Project, Orange, California. Rancho Santiago Community College Dist. Project Manager. ■ On-Call Consulting for Construction General Permit, California. Irvine Ranch Water District. Project Engineer.
Danielle Peltier H&H Designer Michael Baker INTERNATIONAL	3	<ul style="list-style-type: none"> ■ Engineer-In-Training, 2020 	<ul style="list-style-type: none"> ■ Coachella Valley Link Construction Surveying, Coachella Valley, California ■ Santa Clara River Levee (SCR-3), Ventura County, California ■ Water Quality Management Services On-Call, Riverside County, California.
Frank Tran Roadway Lead Michael Baker INTERNATIONAL	24	<ul style="list-style-type: none"> ■ Professional Engineer - Civil, California, 2002, 62845 	<ul style="list-style-type: none"> ■ Santa Ana River Parkway Trails Extension, Orange County, California. Orange County Public Works. Senior Civil Engineer. TranSystems Corporation IDIQ. CALTRANS. Senior Civil Engineer. ■ Olivias Park Drive. City of Ventura. Technical Manager
Jaime Rivera Roadway Designer Michael Baker INTERNATIONAL	26	<ul style="list-style-type: none"> ■ Bentley Certification: OpenRoads Designer/MicroStation (October 2020) ■ Cisco Certified Network Administrator (CCNA) / Network plus - CompTIA 	<ul style="list-style-type: none"> ■ Los Angeles County, California - I10 New ON Ramp Interchange Project ■ Redlands, Ca - Interstate Sound Wall Project

Name / Role	Years Exp.	Professional Registration / Education	Project Experience
Oscar Gonzalez Roadway Designer 	25	<ul style="list-style-type: none"> LEED Green Associate, Arizona, 2010 	<ul style="list-style-type: none"> Laredo 7 AE Services Project, Laredo, Texas Holloman Air Force Base Pads and Infrastructure Project, Otero County, New Mexico
Octavio Hernandez Traffic Lead 	18	<ul style="list-style-type: none"> Professional Engineer - Civil, California, 2011, C78085 Professional Engineer - Civil, Washington, 2020, 20108872 Professional Engineer - Civil, Arizona, 2021, 74819 	<ul style="list-style-type: none"> I-10 Corridor Express Lanes Project, Los Angeles and San Bernardino Counties, California. SANBAG (San Bernardino Associated Government). Traffic Task Manager/Engineer. R-91 Corridor Improvement Project Design Build, Corona, CA. RTCT. Project Design Engineer. I-405, Renton to Bellevue Widening and Express Toll Lanes Design Build Project. Renton, WA WSDOT. MOT Discipline Lead.
Tony Salas Traffic Design Engineer 	12	<ul style="list-style-type: none"> Engineer-In-Training, California, 2015, 155958 Professional Engineer - Civil, Colorado, 2020, PE.0057443 Professional Engineer - Civil, Washington, 2020, 20101200 	<ul style="list-style-type: none"> On-Call Traffic Engineering Services, Orange County, California Highway Safety Improvement Interstate 10/Jefferson Street Interchange Improvements, Indio, California I-10 Corridor Express Lanes Project, Los Angeles and San Bernardino Counties, California
Kimilee Murillo Traffic Designer 	4	<ul style="list-style-type: none"> Engineer-In-Training, California, 2018, 164995 	<ul style="list-style-type: none"> I-15 Express Lanes PS&E Indian Wells Warner Trail, City of Indian Wells HSIP Cycle 9 Traffic Signal Improvements, City of Indio
Loran Chick Right of Way/Survey/Mapping 	31	<ul style="list-style-type: none"> Professional Land Surveyor, Missouri, 2001, 2001001907 Professional Surveyor and Mapper, Florida, 2017, FL LS7148 	<ul style="list-style-type: none"> Highway 67. Poplar Bluff, Missouri. Registered Liaison Highway Surveyor. Highway HH. Lake Ozark, Missouri. Project Surveyor. Photogrammetry Projects. Iowa Department of Transportation. Photogrammetry Project Manager.
Steven Chi Way/Survey/Mapping 	35	<ul style="list-style-type: none"> Professional Land Surveyor, California, 2010, 8860 	<ul style="list-style-type: none"> Coachella Valley Link Construction Surveying, Coachella Valley, California. Anser Advisory, LLC. Surveyor. CVWD Irr Lat 123.45-1.3-2.8. Coachella Valley Water District. Surveyor.
Curtis Bibolet Utility Coordination Manager 	13	<ul style="list-style-type: none"> Real Estate Salesperson - State of California, CA # 02008725 Senior Right-of-Way Agent - International Right-of-Way Association Right-of-Way Asset Management, International Right-of-Way Association 	<ul style="list-style-type: none"> Environmental and Final Design Phase for Calle Contento/Rancho California Road Roundabout Project. Riverside County Transportation Department. Utility Manager. La Cadena Over Santa Ana River Bridge Improvement. City of Colton. Colton, CA. Utility Manager. West Valley Connector Bust Rapid Traisit. San Bernardino County Transportation Authority, Can Bernardino, CA. Utility Manager.
Kim Bibolet Right of Way Manager 	15	<ul style="list-style-type: none"> Real Estate Salesperson, State of California, Ca#01883565 Senior Right-Of-Way Agent - International Right-Of-Way Association Right-Of-Way Negotiation and Acquisition - International Right-Of-Way Association 	<ul style="list-style-type: none"> Perris Valley Line Commuter Rail Extension. Riverside County Transportation Commission. Riverside to Perris, CA. Project Manager. I-15 Railroad canyon road interchange. Riverside County Transportation Commission. Riverside to Perris, CA. Project Manager. SR-55 Improvement Project, from I-405 to I-5 Orange County Transportation Authority. Orange, CA. Project Manager.
Alahesh Thurairajah Geotechnical Manager 	12	<ul style="list-style-type: none"> Professional Engineer - Civil, California, 2013, C81439 Professional Engineer - Geotechnical, California, 2018, G3123 	<ul style="list-style-type: none"> County of San Bernardino, Ten Bridges along National Trails Highway (HBP), San Bernardino County, CA RCTD, Seismic Retrofit of Airport Boulevard Bridge over Whitewater River (HBP), County of Riverside, CA. OCPW, Four Bridge Replacements (HBP), Orange County, CA.

MICHAEL BAKER'S PROJECT ORGANIZATION CHART

2.2.4 PROJECT ORGANIZATION CHART

Michael Baker is pleased to present a team of highly qualified professionals to provide the CVAG with the necessary engineering services for Bridge/Culvert Structures Design and Roadway Engineering with supporting services in the Coachella Valley. The project organization chart on the following page clearly delineates communication and reporting relationships with CVAG among the project staff and subconsultants.



* Registered outside of California

- (1) - Cogstone Resource Management
- (2) - Contech Engineered Solutions
- (3) - Monument
- (4) - Earth Mechanics

SUPPORTING TEAM		
<p>ENVIRONMENTAL (CVMSHCP) / BENEFITS OR IMPACTS OF CONCEPTS</p> <p>Elizabeth Meyerhoff - Environmental (key)</p> <p>Shelah Riggs - Regulatory (key)</p> <p>Margaret Bornyasz - Regulatory</p> <p>Eddie Torres - Air/Noise/GHG</p> <p>Desiree Renee Martinez, MA, RPA (1)- Cultural</p> <p>Margo Nayyar - Tribal</p> <p>Carla Dietrich, PE *, PTOE - Traffic</p> <p>STRUCTURES</p> <p>Chad Harden, PE, SE - Structures Lead (key)</p> <p>Phillip Creamer, PE (2) - Superstructure/Pre-Fabricated Structures</p>	<p>HYDROLOGY & HYDRAULICS</p> <p>Todd Pitner, PE, QSD/P - H&H Lead</p> <p>Mujahid Chandoo, PE - H&H</p> <p>Steven Giffen, PE - Scour Analysis</p> <p>Danielle Peltier, EIT - H&H Designer</p> <p>ROADWAY</p> <p>Frank Tran, PE - Roadway Lead (key)</p> <p>Jaime Rivera - Roadway Designer</p> <p>Oscar Gonzalez - Roadway Designer</p> <p>TRAFFIC/LIGHTING/TRAFFIC CONTROL</p> <p>Octavio Hernandez, PE - Traffic Lead (key)</p> <p>Tony Salas, PE * - Traffic Design Engineer</p> <p>Kimilee Murillo, EIT - Traffic Designer</p>	<p>RIGHT OF WAY / SURVEY / MAPPING</p> <p>Loran Chick, RLS * (key)</p> <p>Steven Chi, PLS (key)</p> <p>Wade Weaver, PLS</p> <p>UTILITY COORDINATION/RELOCATION</p> <p>Curtis Bilbolet, SR/WA, R/W-AMC (3) - Utility Coordination Manager</p> <p>RIGHT-OF-WAY</p> <p>Kim Bilbolet, SR/WA, R/W-NAC (3) - Right of Way Manager</p> <p>GEOTECHNICAL</p> <p>Alahesh Thurairajah, PE, GE (4) - Geotechnical Manager</p>

SECTION 2.3

WORK PLAN

2.3 WORK PLAN

2.3.1 History, Understanding, and Approach

Flooding and blowsand events expose the vulnerability of the Western Coachella Valley transportation network. These events create adverse social, economic, and safety impacts due to emergency roadway closures that paralyze traffic circulation within the region. Road damage and accumulated blowsand can require significant and time consuming traffic detours and can take hours to weeks to repair. This project will provide final design for three specific locations selected to alleviate the risk and impact of road closure due to these events.

Coachella Valley of Associated Governments (CVAG) selected Michael Baker in 2019 to perform a study of twelve locations throughout the Western Coachella Valley in the Cities of Palm Springs, Desert Hot Springs, and Cathedral City. These locations were selected due to a history of observed impacts from flooding or bulk sand transport and deposition, also known as blowsand. Michael Baker analyzed the 10-year or 100-year storm event (Q10 or Q100) at each of the twelve existing locations. General Plan or ultimate conditions were not incorporated into the preliminary design, as the intent of the project is to construct relief structures in the fastest timeline possible. The analysis was then used for to identify preliminary design alternatives. Once the preliminary designs were identified, the twelve locations were ranked and prioritized based on Emergency Access/Evacuation Impacts, Traffic Volumes and Storm Water Flows. Construction cost estimates were also prepared for each location.

During the process, it became apparent that traditional construction methodologies (i.e. standard bridge designs, etc.) would be cost restrictive and would impede progress toward the goal of quickly reducing traffic impacts due to flood and blowsand. To alleviate the cost impact, Michael Baker teamed with Contech Engineered Solutions to identify a more palatable solution. With cost and speed as the priorities, Michael Baker and Contech selected the Contech Con/Span O-Series Bridge Systems as the recommended design approach. On average, for the locations where data was available, a 65% reduction in proposed cost was realized when selecting the Contech solution. It should be noted that while these solutions realize a significant cost savings in the preliminary stage, until the site has been explored and design has been completed, the actual savings cannot be quantified. Design elements such as scour depth can have significant impacts on foundation design, and cannot be determined until geotechnical explorations have been completed.

The previous study prepared by Michael Baker International, Flood & Blowsand Risk Assessment and Improvement Plan for Western Coachella Valley, identified, developed and evaluated alternative design concepts of various flood crossings throughout the Western Coachella Valley including, Indian Canyon Road crossing White Water River and Chino Canyon Creek, Varner Road crossing Willow Wash and Date Palm Drive crossing Long Canyon Wash. Alternative crossing designs were evaluated based on design criteria including cost, compatibility with future development plans, MSHCP compliance, and other elements.

As a result of this study, Michael Baker International, in collaboration with CVAG and its stakeholders, delivered design alternative concepts for each of the 12 crossings that were well received and provide significant cost savings from the traditional bridge construction methods identified previously in the Transportation Project Prioritization Study (TPPS).

With this current proposal, Michael Baker outlines its approach to expand upon the past study/concepts to support the preparation of final engineering plans. Each flood crossing is unique with its own hydrologic and hydraulic characteristics, design constraints and design objectives, as explained herein.

2.3.2 Technical Considerations

Level of Flood Protection

The base flood is defined in the National Flood Insurance Program (NFIP) as “the flood having a one percent chance of being equaled or exceeded in any given year.” As stated in the RFP, the bridge/culvert structures will be designed to convey 100-year flood events at each location.

The flow rates for the 100-year storm for each of the crossings, as identified in past study, are as follows:

Sheet Description	INCN7 (A & B) - N. Indian Canyon Dr.	VRNR2 - Varner Road	DPLM5 - Date Palm Drive
INCN7A	N Indian Canyon Drive	Chino Canyon	4,800
INCN7B	N Indian Canyon Drive	White Water River	47,000
VRNR2	Varner Road	Willow Wash	3,250
Date Palm Drive	Date Palm Drive	Long Canyon Wash	3,250

Hydrology

The flow rates outlined above utilized hydrologic data from past studies, when information was available and deemed reliable/accepted. If hydrologic data was not available, technical studies were performed.

Hydraulics

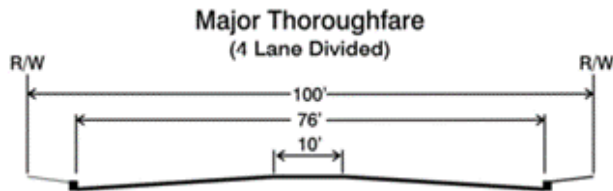
Preliminary sizing of roadway undercrossings were determined using the Bentley FlowMaster Program by Haestad Methods Solution Center. The program allows the user to perform hydraulic calculations for various hydraulic element types, from pipes and open channels to inlets and weirs. Additional hydraulic studies will be required during final engineering to verify capacity of proposed conceptual designs.

Contech Con/Span O-series arch structures are proposed at most crossings and reinforced concrete box culverts where it was not feasible to propose the arch structures. The Alternative Concept Plans show the dimensions, number of barrels, and slopes at each crossing. FlowMaster software program is used to determine the water surface depth (normal depth) at each crossing. Normal depth calculations were performed based on the design flow rates tributary to each crossing in the Cities of Desert Hot Springs, Cathedral City and City of Palm Springs. Output results from FlowMaster are included in Appendix D. The results show that the conceptual culvert dimension shown on the alternative concept plans at each crossing are designed adequately for the safe conveyance of a 10-year and a 100-year flood waters. More detailed hydraulic analysis are recommended for each crossing should the stakeholders approve final design plans for any flood crossing analyzed in this report.

Roadway

Indian Canyon Drive

Indian Canyon Drive is a four-lane divided Major thoroughfare per the City of Palm Springs General Plan. The ultimate cross section is seen below:



Palm Springs General Plan

In addition, Indian Canyon is identified as a Truck Route, and carries a Class II bike lane along it. Indian Canyon is considered a truck route per Palm Springs General Plan.

As it exists today, Indian Canyon varies from two to four lanes through the two locations of the proposed improvements. This project will ultimately widen the existing road to a modified section with 150-foot right-of-way with a 68-foot curb to curb cross section as identified in

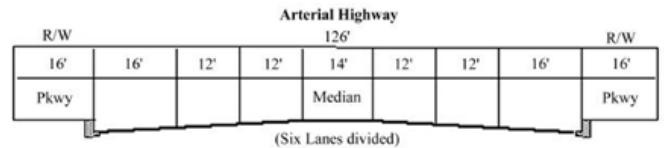
the Flood & Blowsand Risk Assessment and Improvement Plan for Western Coachella Valley. Raising of the road will involve adjacent grading and protection of existing utilities. All design elements (vertically and horizontally) will be in accordance with Caltrans Highway Design Manual (HDM). Clearances to the existing electric utility lines east of the roadway will be reviewed and verified in compliance with PUC requirements. Should these lines not meet minimum clearance, coordination with Southern California Edison will be necessary to properly relocate the existing transmission lines.

Per CVAG’s CV Link plan, a future extension of CV Link is proposed to cross through the south end of INCN7B with a community connector to the Amtrak station to the north. The proposed crossing will be at grade as identified in the Segment 1 Map; however, one consideration at this location would be to determine if an undercrossing in one of the culverts is feasible.

Construction of this project is consistent with the City of Palm Springs General Plan Goal CR2.5, construction of an all-weather bridge crossing along Indian Canyon, would be satisfied by this project.

Varner Road

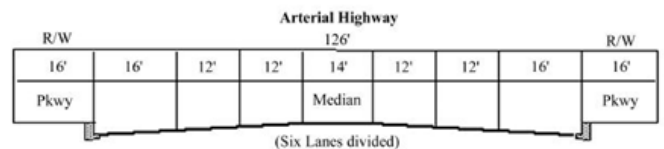
Varner Road is ultimately a six-lane Arterial Highway in accordance with the Cathedral City General Plan. In it’s ultimate condition, it is proposed to have a Class II bikeway (bike lane). The ultimate cross section is seen below:



This project will maintain the existing 64-foot right-of-way. The roadway will be designed to maintain existing two way traffic lanes and will incorporate the necessary additional width to accommodate a Class II bikeway.. The roadway will be designed to allow for the future incorporation of the ultimate roadway section. This will include consideration of how future expansion of the Con/Span Bridge will be incorporated as well as the profile and elevation of the roadway.

Date Palm Drive

Date Palm Drive is ultimately a six-lane Arterial Highway in accordance with the Cathedral City General Plan. In it’s ultimate condition, it is proposed to have a Class II bikeway (bike lane). The ultimate cross section is seen below:



This project will maintain the existing 126-foot right-of-way. The roadway will be designed to maintain existing turn pockets and through lanes as well as incorporate

the necessary additional width to accommodate a Class II bikeway. The roadway will be designed to allow for the future incorporation of the ultimate roadway section. The proposed improvements at this location include the installation of a double 10'W X 8'H box. As a part of the preliminary analysis of the project, Michael Baker and Contech will determine whether a Con/Span Bridge can be incorporated at this location.

Traffic Control

Traffic management is paramount during construction. Each location will be reviewed to determine if a local "temporary" by pass road can be constructed in order to facilitate construction. This approach will involve additional environmental coordination, generally due to the fact that the adjacent areas are considered conservation areas. This will be reviewed early in the project design, prior to and during the environmental phase to determine its feasibility.

Should providing a temporary bypass road be infeasible, road closures will need to be considered at each location for construction. Due to the proximity of the work, and the fact that there are limited bypass routes, consideration will need to be given to detouring traffic along the I-10 freeway.

Structures

Michael Baker will have the experience to provide the conventional and constructible solution of prefabricated arch structures as presented in the Flood & Blowsand Risk Assessment and Improvement plan for Western Coachella Valley. The structures, hydraulic and geotechnical team envision the arch structures to be supported on spread footing or pile supported foundations, and protected from scour by scour countermeasures such as concrete lining or rip-rap protection. A concrete channel invert will provide continuity to the scour countermeasure, and allow foundations to remain shallow and cost-effective. However, Michael Baker will also initiate a Type Selection analysis at the beginning of the project to conduct value-engineering early on and confirm preliminary studies.

Structure Type Selection

Michael Baker proposes a bridge Type Selection Report (TSR) as a critically imperative first step for value engineering and potential cost savings for CVAG. The TSR process will have the following specific value-engineering goals for CVAG:

1. Michael Baker is teaming with Contech to seamlessly provide a consistent delivery of solution following preliminary designs identified in the Flood & Blowsand Risk Assessment and Improvement plan for Western Coachella Valley. The subconsultant design fees from Contech can also be applied to the construction contract if Contech is selected to provide delivery of prefabricated arches which is an immediate cost benefit to CVAG.
2. However, further refinement of arch material, such as precast concrete vs. long-spanning steel plate arch, can

reduce the number of required foundations and therefore construction cost. Michael Baker, Contech, and EMI will work immediately to focus on refining the baseline designs to reduce foundation locations (\$) in the channels.

3. If scour magnitudes are significant, it may be cost-effective to reconsider traditional and precast bridge solutions which can expedite delivery of material, further increase spans, and further reduce foundations locations and associated construction costs. Traditional longer span bridges with Type II shafts may be cost-effective alternatives if significant scour is anticipated at arch piers or scour countermeasures are not implemented.

4. The crossing at Date palm is currently identified as a multi-cell reinforced concrete box (RCB). This type of structure is typically cast in place or precast, both of which currently have long lead items for material fabrication and delivery. It may be advantageous to capitalize on the Contractor's economy of scale, and investigate a prefabricated arch solution at this location as well.

Coordinated Structure, Sediment Transport (SCOUR), and Geotechnical Design

Scour will be evaluated using the Federal Highway Administration publication HEC-18, Evaluating Scour at Bridges, Fifth Ed. The river hydraulics will be based on the US Army Corps of Engineers (USACE) HEC-RAS 2D modeling software. The scour analysis uses data collected during PS&E. The median grain size is obtained from the Geotechnical Engineer's Sieve/Hydrometer Analysis and pebble count. The Caltrans Amendments to the AASHTO LRFD Design Guidance define scour susceptibility for a deep foundation when scour exposes the bottom of the pile cap. We evaluate the components of scour (pier, abutment, bend, dune/anti-dune) and summarize the scour in the Final Hydraulic Report. HEC-18 recommends that the design storm, scour design, and scour check flood events be graduated in increasing return frequencies. For the 100-yr design events reported in the preliminary findings, we anticipate the scour check flood being the 200-yr event. The check flood event is estimated by scaling the adopted 100-yr peak flows using regional regression equations. The absence of grade control structures in the vicinity of the proposed bridges will require that we evaluate the long-term bed stability. In an unconfined shallow flooding situation, such as this, the USACE HEC-6T model is used to evaluate the long-term degradation/ aggradation component of the scour analysis.

The most economical and constructable bridge type will consider and balance several highly coupled variables including channel hydraulics and scour design, proposed foundation pile capacity, and bridge loading demands.

There is little available data to estimate design scour at this point in the project development. Scour undermining foundations poses a design challenge to protect vertical

load carrying capacity of the existing bridge/Culvert. To address this challenge, Michael Baker will apply our knowledge gained from the recent work along the Coachella Valley Stormwater Channel at Date Palm Bridge, Monroe Street Bridge, Jackson Street Bridge and the future Avenue 50 Bridge over the Coachella Stormwater Channel. Additionally we have recently completed 2-Dimensional hydraulic analysis in support of the La Entrada development in the vicinity of the future Avenue 50/I-10 interchange. Based on this experience, Michael Baker will confirm the design scour magnitude through sediment transport and scour analysis, and work closely with the geotechnical engineer to confirm the proposed foundations have available capacity during the design event to meet the necessary limit states.

Limit State		Degradation/Aggradation	Contraction Scour	Local Scour
Strength	min	0%	0%	0%
	max	100%	100%	100%
Strength	min	0%	0%	0%
	max	100%	100%	100%
Strength	min	0%	0%	0%
	max	100%	100%	100%

Michael Baker will combine the components of scour, including degradation / aggradation (general or abutment), contraction, and local (Pier) scour for the Service, Strength, and Extreme events following Caltrans Amendments to AASHTO LRFD Bridge Design Specifications (BDS) Section 3.7.5.

Systems for Planning, Scheduling, Estimating, Managing and Quality Control

We have structured our team to be directly responsive to the needs of this Project. Michael Baker will employ our proven project management approach as summarized below.

SCHEDULE: We understand the importance of meeting the deliverable deadlines, and our reputable team is dedicated to meeting CVAG’s timeline. Our available resources ensure ability to accelerate deliverables. Our schedule and progress are carefully monitored through resource-loaded scheduling.

COMMUNICATION PLAN: Communication is the key to a project’s success. On many projects, scope creep can easily come into play and affect project budgets and schedules. To prevent this, we push for clear, open, and ongoing communication with CVAG.

SCOPE DEFINITION: A thorough understanding of the purpose and need of the project is essential to ensure the project stays on target and focused on the goal. We work to establish and maintain a clear definition of the goals to keep all parties unified in making project decisions, protecting

against scope creep, and helping projects remain on schedule and on budget.

EXPERT DESIGN SERVICES: With vast local experience in paving, grading, drainage, transportation, bridge design, and civil engineering), public information, survey and traffic engineering, we have the staff available to address all of CVAG’s design needs anticipated for this contract.

QUALITY CONTROL: Michael Baker has an established QA/QC program that is implemented and appropriately scaled for each project. Our program consists of building in quality at every step of the process, promoting prevention rather than detection. Senior engineering staff conduct a formal independent project review at milestone stages. We will analyze all project documents for constructability, cost control, code requirements, stakeholder coordination, clarity, schedule control, errors and/or omissions and compliance with CVAG requirements.

Michael Baker understands that project quality is our responsibility. Our philosophy is simple: Quality is Non-Negotiable. Our team is fully committed to Quality Management and QA/QC and has a strong history of delivering quality products to our clients. We are committed to completing projects that meet your requirements with respect to scope, schedule, budget, and technical quality.

DISPUTE RESOLUTION: Michael Baker has the background to properly analyze and resolve disputes that may occur. Our project control techniques with cost estimating and analysis, scheduling analysis, and document control enhance our ability to respond to claims or disputes. Michael Baker employs an independent group who responds to requestors’ needs for support on major dispute or claim situations from public issues to contractor issues. Our full range of services include review and analysis, mitigation consultation, negotiations, and support to attorneys throughout litigation. Our typical approach when a dispute is submitted is: 1) data collection and understanding of contract documents and claim issues; 2) review of dispute for merit; 3) if merit is confirmed, review the impact; 4) meetings with the client throughout the process to discuss results; 5) meetings with disputing parties to determine resolution; and 6) assist client with further actions per contract if resolution is not reached.

COST CONTAINMENT: Weighing any proposed improvements against the project’s purpose and need while considering cost and longevity is critically important. We will address the primary purpose of all project features while maintaining a firm perspective on the project budget. Scope creep can be a problem on these types of projects, through densely developed downtown areas with a multitude of stakeholders. We will maintain regular and as-needed communication with the CVAG Project Manager and will keep the PM abreast of any potential scope changes. Michael Baker will look for ways to maintain or

improve safety conditions without significant increases to the construction costs. We strive for creative, yet cost effective and practical design solutions.

2.3.3 TASKS

Task 1.0 Project Management and Administration

Task 1.1 - Project Kickoff and Regular Design Meetings

Michael Baker will work with CVAG to schedule a project kickoff meeting (pre-design meeting) as well as planned regular status meetings (assumed to be monthly) with CVAG. Additional meetings with key stakeholders will be scheduled and attended as necessary. Michael Baker will provide meeting agendas with input from the CVAG for each meeting and will prepare and distribute meeting minutes.

Assumptions: 18 meetings (1 kickoff, 3 design submittal meetings, up to 36 Monthly PDT Meetings)

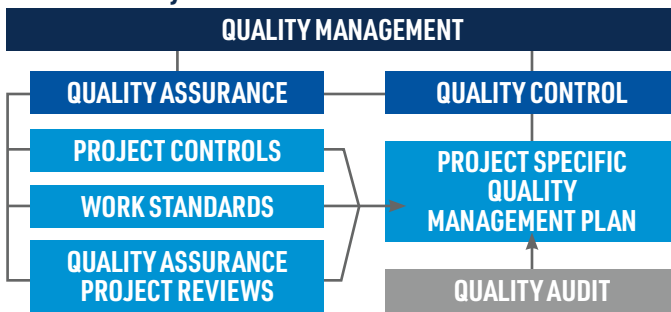
Deliverables: Meeting minutes, within 5 business days of the meeting

Task 1.2 - Monthly Invoicing & Progress Reports

On a monthly basis, Michael Baker will issue invoices and progress reports to CVAG detailing major items worked on during the billing period as well as percentage complete for each task. This report will include all necessary back up and will serve to establish internal accounting methods and procedures acceptable to CVAG for documenting and monitoring contract costs. A master schedule will be developed as part of this task and will be updated monthly as part of the progress reports.

Deliverables: Monthly invoice and progress report

Task 1.3 - Quality Control



The Michael Baker Team shall implement and maintain the following quality control procedures during the preparation of the plans and documents relating to the Project. The Michael Baker Team shall have a quality control plan in effect during the entire time services are being performed for this Project. The plan shall establish a process whereby calculations are independently checked, plans checked, corrected and back-checked, and all job related correspondence and memoranda routed and received by affected persons and then saved in appropriate job files. Where several drawings show different work in the same area, means shall be provided to avoid conflicts and

misalignment in both new and existing improvements. Evidence that the quality control plan is functional may be requested by CVAG. All plans, calculations documents and other items submitted to CVAG for review shall be marked clearly as being fully checked and that the preparation of the material followed the quality control plan established for the work.

The Michael Baker Team has full responsibility for the accuracy and completeness of data, reports, plans, specifications, and estimates prepared for the Project and shall check all such material accordingly. CVAG will review all work product deliverables. The responsibility for accuracy and completeness of such items remains solely that of the Michael Baker Team. Neither CVAG's review or approval shall give rise to any liability or responsibility on the part CVAG, or waive any of CVAG's rights, or relieve the Michael Baker Team of its professional responsibilities or obligations for this project.

The plans, designs, estimates, calculations, reports and other documents furnished shall meet the criteria for acceptance and be a product of neat appearance, well organized, technically and grammatically correct, checked and having the preparer and checker identified. The minimum standard of appearance, organization and contents shall be of similar types produced by CVAG and other Agencies involved in the Project. If any work product submitted is not complete and ready for use by CVAG, it shall be marked "Draft" or similar designation to indicate it is not ready for use.

Task 2.0 Survey

Task 2.1 Aerial Topographic Survey

Michael Baker will conduct an aerial topographic survey to locate existing control points and all existing above ground features at each curb return and traffic signal location. Topographic survey will include visible utility appurtenances, pull boxes, manholes, cabinet, meters, vaults, irrigation facilities and appurtenances, drainage inlets, including the inlet/outlet pipe elevations, gutter flow lines, and gutter lip.

Field topographic survey will be performed where additional field information is necessary to improve the aerial survey information.

Assumptions: Survey limits assumed to be 100-feet either side of centerline with final limits to be determined during design.

Task 2.2 Right of Way Record Map, Records Research and Field Assessment

Michael Baker will complete the necessary research to gather and review available information such as preliminary reports, record drawings, tract maps, assessor parcel maps, right-of-way maps, previous surveys and investigations, street centerline ties, and utility maps. To plot the record

position of the right of way lines in the approximate orientation with a specific coordinate system, compiled aerial topographic base data or other overlay features, the Michael Baker survey team will perform the following tasks:

- Research of the available public records via on-line services to obtain maps and other items that affect the boundary location of the property;
- Prepare a preliminary record data map to be used by the field survey crew to search for a sampling of boundary monuments;
- Field survey of said monuments in order to establish orientation of the record survey data in relation to the coordinate system used in the topographic mapping;
- Plot the record centerline;
- Plot the record boundary lines on the aerial base map, with the understanding of the Client that said record boundary is not the result of a comprehensive boundary survey and analysis, and that it's orientation may disagree from the position determined by a full boundary survey and analysis.

Additionally, our team will complete a field review investigating any issues identified in the scope of work as well as those identified in the kickoff meeting. During this walk, we will document pertinent field conditions, utility appurtenances and photo document all locations. The result of this task will be a detailed base map, including record right of way lines, to be used as the basis of the 65% designs.

Assumptions: Adequate and accessible boundary monumentation exists in the immediate project vicinity to control this record data survey. If additional survey services need to be performed to adequately recover survey monumentation, additional funding will be necessary and negotiated with the client. Any cost associated with the preparation and processing of a Record of Survey Map, if one becomes necessary as a legal requirement, shall be covered by Client.

Deliverables: Document Research and Data Collection with Field Verification, Base Map

Task 2.3 – Pothole Surveys

Consultant shall locate utilities exposed by potholing operations. The survey location shall include the elevations of the top of the exposed utility, the location of the utility and a description, including size, insofar as size can be determined. Potholing shall be done by a subconsultant.

Should the Client or potholing contractor determine that potholes must be backfilled prior to field survey, Michael Baker International shall locate marks made by the contractor indicating the location, elevation and description of the utility.

Task 2.4 – Monument Rehabilitation

Consultant shall perform a field survey to verify, set or and/or measure sufficient reference tie accessory points and/or monuments to each location of centerline control that may be destroyed during the construction of the

project, as required under Section 8771 of the Professional Land Surveyor Act. Consultant shall use other physical monuments or their accessories if practical to the location. Upon completion of initial field work, Consultant shall prepare and submit Pre-Construction Corner Records to the County Surveyors Office.

After completion of construction, reconstruction or maintenance, and within twenty (20) calendar days, Consultant shall replace any disturbed or destroyed monuments or their accessories as required under said Section 8773.3 of the P.L.S. Act. Consultant shall submit a final Corner Record to the County Surveyors Office for filing as a public record, said final Corner Record document showing the monument(s) or its accessories destroyed, tied out and replaced.

Copies of all documents submitted to the County shall be provided to CVAG.

Task 3.0 - Right-of-Way (Monument)

The Western Coachella Valley Flood and Blowsand Road Improvement Project, Phase I (Project) will require the acquisition of additional right-of-way and/or temporary construction easements to facilitate the construction of the proposed improvements. Based on information provided in the RFP, the Project will impact private and publicly owned vacant properties along both sides of the following roadways:

- Indian Canyon Drive from Sunrise Parkway to Palm Station Road - This includes approximately eight (8) partial acquisitions and temporary construction easements.
- Varner Road from Mountain View Road to Date Palm Drive - This includes approximately thirty-nine (39) temporary construction easements.
- Date Palm Drive from I-10 to Varner Road - This includes approximately fifteen (15) temporary construction easements

Monument will provide right-of-way (ROW) project delivery services, including project management, acquisition and negotiations, appraisal, utility relocation, title and escrow, right-of-way certification and other right-of-way services. The ROW scope of work for this contract will consist of the following:

Task 3.1 Project Management

Monument's Project Manager and key staff will be responsible for the technical and administrative functions required to provide ROW services on the Project. The management team will plan, organize, supervise, coordinate, and administer the various elements of the ROW scope of work.

- Monument will meet with relevant parties regarding proposed Project to identify acquisition issues, and/or to discuss project status, procedural issues, budget, and schedules.
- Prepare and implement an effective Acquisition Management Plan to ensure the Project is delivered in the most efficient and effective

manner and in compliance with all applicable laws, regulations and procedures.

- Meet with CVAG on a regular basis to communicate project updates, coordinate right-of-way issues and make recommendations to CVAG on policy development, risk mitigation and general project consultation.
- Prepare and deliver written progress status reports for acquisition and relocation cases.
- Participate in project related meetings, make public presentations to individuals and organizations and represent CVAG in presentations and public hearing on all matters pertaining to the acquisition process.
- Update each parcel file checklist (our QA/QC Manager will conduct weekly reviews of the project reporting to ensure compliance with CVAG and regulatory compliance).
- Finalize all work product, provided services and prepare and deliver presentations to CVAG staff and key stakeholders, as appropriate.
- Assist CVAG with any file audits.

Task 3.2 Right-of-Way Cost Estimates and Data Sheets

The scope of work for preparing Right-of-Way Data Sheets for each alternative under consideration includes:

- Take an inventory of the affected properties for each selected option.
- Using public Assessor's Roll information, investigate the ownership and lot size of each affected property.
- Visually inspect each property (exterior street view) and evaluate effects of proposed acquisition.
- Sort each property into product types to determine the universe of real estate data sets to research and create valuation data sets for each product type.
- Prepare an estimate of the probable cost of each partial acquisition (plus any damages) using the data sets created and utilizing our various real estate value data bases.
- Prepare an estimate of the total services and incidental costs associated with each real estate acquisition program (appraisals, acquisition and relocation agents, title/escrow, and legal services).

If the acquisition program is to be phased or implemented at a future date, formulized spreadsheets will be created which apply the appropriate cost escalation factors to reflect the projected schedule. The final cost information determined from the accumulation of data will then be transferred into the appropriate format for application to the Right of Way Data Sheets, or format required by the project.

Deliverables: Report containing a textual description of the project areas studied, a summary of total probable costs of the study area itemized by major component, and will include detailed spreadsheets showing how the summary sheets were calculated. The spreadsheets contain a parcel-by-parcel breakdown of all probable costs.

Task 3.3 Appraisal Reports

- The appraisal will be prepared by individuals licensed with the State of California, Office of Real Estate Appraisers, as a Certified General Real Estate Appraiser. Our appraisers both retain the requisite qualifications and experience necessary to competently complete appraisals in a competent and professional manner, in accordance with applicable

laws and policies.

- Prepare the Notice of Decision to Appraiser letter for each property, advising the property owner of the proposed project, introducing the appraiser, enclosing an Acquisition Brochure describing CVAG's acquisition process, and contract information to answer questions and concerns.
- The appraisal report will comply with the Uniform Standards of Professional Appraisal Practice (USPAP).
- Perform an inspection of the subject property.
- In developing and reporting the appraisal, disregard any decrease or increase in the fair market value of the real property caused by the project for which the property is to be acquired, or by the likelihood that the property would be acquired for the project.
- Report the appraiser's analysis, opinions, and conclusions in the appraisal report.

Task 3.4 Appraisal Review

Review appraisals will be provided for each appraisal, and in accordance with State and Federal law and CVAG policy as required. The review appraiser will, as appropriate:

- Identify the reviewer's client and intended users, the intended use of the reviewer's opinions and conclusions, and the purpose of the assignment.
- Identify the following:
 - Subject of the appraisal review assignment.
 - Effective date of the review.
 - Property and ownership interest appraised (if any) in the work under review.
 - Date of the work under review and the effective date of the opinion or conclusion in the work under review.
- Develop an opinion as to the appropriateness of the appraisal methods and techniques used, given the scope of work applicable in the assignment, and develop the reasons for any disagreement.
- Develop an opinion as to whether the analyses, opinions, and conclusions are appropriate and reasonable, given the scope of work applicable in the assignment, and develop the reasons for any disagreement.
- Review appraisals will be forwarded to CVAG for establishment of just compensation prior to the preparation of offers to acquire the proposed land rights for the project.

Task 3.5 Right of Entry Permits

Monument will secure temporary access onto private property(ies) for environmental, planning, or preliminary investigation or construction activity. Monument will:

- Prepare the temporary access document, such as Right of Entry permit (ROE) documents and secure approval as to form from CVAG.
- Establish personal contact with property owners, wherever possible, present details of ROE.
- Negotiate with property owners and secure execution of required agreements.
- Facilitation of any payments from CVAG to private property owners via mail.
- Reasonable assistance to project survey team with special owner

request and access concerns.

Task 3.6 Acquisition and Negotiation

Monument will provide ROW delivery services required for CVAG to purchase ROW required to construct the Project. The tasks will be performed in accordance with applicable Federal, State and local regulations, Caltrans Policies and Procedures and CVAG's ROW Policies and Procedures. Monument will be provided with a copy of CVAG's ROW Policies and Procedures Manual upon award and execution of a contract.

Monument will provide the following services under the direction of CVAG staff:

- Provide the Acquisition and Negotiations Services to acquire the property interests required for the Project in a timely, efficient manner and at a reasonable cost. Work shall be performed in accordance with Caltrans and the CVAG's Policies and Procedures and applicable Federal, State and local regulations.
- Coordinate and manage the acquisition process with the CVAG, legal counsel, design team, property owners, and tenants along with the title company, appraisers and other consultants to insure effective cross-discipline communications.
- Review ROW plans, appraisal reports, title reports, appraisal maps and legal descriptions and all other pertinent documents.
- Prepare acquisition offer packages consisting of CVAG's written purchase offer, appraisal summary statement, acquisition brochure, acquisition agreement, conveying instruments (Grant Deed, Permanent and/or Temporary Easements, etc.), Certificate of Acceptance, recommendation of Amount of Just Compensation, plat maps and legal descriptions, and Title VI Information.
- Monument's acquisition agent will meet personally with each property owner to present CVAG's purchase offer, explain the project design requirement and inform him or her of the CVAG's ROW acquisition process.
- Negotiate personally in good faith with each property owner, his/her agent or representative and discuss appraisal and valuation of the property interests, gather information from the property for consideration and address any questions or concerns that may arise during the acquisition process.
- Promptly transmit executed documents (acquisition agreements, executed deeds, and the like) to CVAG for acceptance and processing. Prepare and submit a Letter of Recommendation to CVAG for any proposed administrative settlements with property owners. The letter will include a chronology of the negotiation efforts, provide supporting evidence and documentation and an explanation of the benefits and rationale behind the recommendation.
- Recommend condemnation action when negotiations have reached an impasse. The required justification will be submitted in writing to CVAG. Our primary goal will be to reach an acceptance of the offer with each property owner. We will work with CVAG in recommending solutions to achieve acceptance of the offer.
- Provide bilingual acquisition agents, if necessary.
- Prepare all applicable forms, secure property owner's approval and signature and submit the forms to CVAG for review and acceptance.

- Monument will provide CVAG with the original acquisition file as well as electronic copy of files for future audit purposes.

Task 3.7 Escrows Coordination

After an offer is accepted and the purchase agreement is approved by CVAG, Monument's Escrow Coordinator will transmit the original documents to the escrow company and request that the title company send an updated Preliminary Title Report.

- The Escrow Coordinator will review the updated title report and prepare a memorandum of disapproved title exceptions.
- The escrow company will prepare escrow instructions, transmit a copy of the purchase contract to the title company and begin the process of satisfying all monetary liens, prorating taxes and clearing adverse title exceptions and encumbrances.
- Upon escrow's request for funds from CVAG, the estimated closing amount will be deposited in escrow, and upon close, the escrow holder will record a deed and issue a title insurance policy.
- The Escrow Coordinator will provide ongoing support to the escrow officer to ensure the timely execution of escrow instructions, coordination of title clearance documents and processing of wire transfers.
- Escrow closure generally will be accomplished in 30 to 60 days.

Task 3.8 Right-of-Way Certification

Monument will prepare and submit to Caltrans, and FHWA, if necessary, a right-of-way certification form and other required documents in accordance with the Caltrans Right of Way Manual and FHWA requirements.

- Compile property acquisition documents and supporting maps and/or plans to support right-of-way certification form.
- If necessary, coordinate with relevant parties to compile utility back-up documents to support the right-of-way certification form review.
- Correspondence with Caltrans to facilitate timely review and certification of acquired property rights for project construction.
- Hold bi-weekly or monthly meetings with project team to ensure certification is in compliance with project schedule.

Task 3.9 Eminent Domain Support

If requested, coordinate with CVAG's condemnation counsel, as required, to support the condemnation activities until the Resolution of Necessity is adopted and possession is granted by the courts. Litigation support after the hearing for the Resolution of Necessity, such as depositions, mediation appearances and expert testimony, can be provided on a time-and-materials basis.

Task 4.0 H & H / Roadway Drainage

Task 4.1 Scour Analysis

Michael Baker will prepare 2-Dimensional hydraulics for each of the four crossings using the USACE HEC-RAS 2D model. The model will use 1m resolution Digital Elevation Model (DEM). This elevation model provides a single point elevation in each square meter of the terrain. This is anticipated to provide adequate definition to determine flow

direction and hydraulic parameters. The 1m DEM will be obtained from commercially available data sources such as Intermap and is included in the other direct costs in our cost proposal.

Using the 2-Dimensional hydraulic results, the USACE HEC-6T tool will be used to evaluate the long term aggradation/degradation component of site scour. FHWA Publication HEC-18 "Evaluating Scour at Bridges" will be used to determine the scour components of short term, abutment, and pier scour. The design storm is the 100-yr event and the scour check flood will be the 200-year event. Based on our experience with Coachella Valley Water District, and their extensive data in the area, we anticipate that we will also include a general scour calculation using the Blench and Lacey regime equations. This is a standard practice in the Coachella Valley and in highly mobile, small grained soil situations. If the geotechnical analysis determines that the soils are more cohesive and larger grained, the use of the regime equations will be reevaluated.

The hydraulics and scour analysis will be summarized into the Preliminary and Final Hydraulics Reports (PFR and FHR respectively). The PHR will generally contain the record hydrology data obtained from the agencies, 2-D hydraulics, preliminary scour results using estimated grain sizes, water surface elevations for the bridges and culverts. The FHR will contain similar data except that the scour results will be updated using the geotechnical investigation data. The PHR and FHR will be formatted to meet the Caltrans Memo To Designers 16-1 (MTD 16-1) and are limited to the bridge locations.

The results of the offsite 2D hydraulics and scour analysis will be summarized into Hydraulics Basis of Design Reports. This report will summarize the procedures and calculations used to determine the scour depths and will contain recommendations for scour design at each culvert, crossing, and at locations where flows are directed along the roadway improvements to protect the roadway embankment from scour. Additional locations will be included where scour critical elements are identified, such as electrical poles in the vicinity of the culverts/roadway improvements.

Assumptions: It is assumed that the existing road serves as a grade control structure. To maintain the geomorphology of the drainages, and prevent erosion, invert lining and toe downs will be included in the design recommendations. The grade control structure will protect the bridge foundations and limit the depth of scour. We anticipate this approach will meet the Caltrans Amendments to the AASHTO LRFD guidelines. At the proposed box culverts, inlet and outlet scour protection will be designed to prevent undermining of the box culverts. This design will follow references such as, but not limited to, the: Caltrans Highway Design Manual, FHWA Publication HEC-14 "Hydraulic Design of Energy Dissipators for Culverts and Channels", and FHWA

Publication HEC-23 "Bridge Scour and Stream Instability Countermeasures: Experience, Selection, and Design Guidance (Vols 1 & 2).

It is assumed that the existing hydrology data is adequate to develop the 2-dimensional models. If additional hydrology analysis is necessary to support 2D modeling, it will be addressed as a separate addendum. Because this project lies within the Colorado River Basin and is ultimately tributary to an engineered, hardened, and maintained channel (the Whitewater River), hydromodification studies and preparation of a Caltrans format Rapid Stability Assessment or other hydromodification analysis/design is excluded from this project.

Deliverables:

- Hydraulics Basis of Design Report for each local jurisdiction (two reports total)
- Preliminary Hydraulics Report for each culvert/bridge crossing (four reports total)
- Final Hydraulics Report for each culvert/bridge crossing (four reports total)

Task 4.2 Roadway Drainage

Michael Baker intends to validate and expand upon the past study/concepts, as necessary, and perform the required technical hydrology studies to support Task 4.1, Scour Analysis and preparation of final engineering plans. A Hydrology Report will be prepared to accompany the engineering plans which will discuss the design approach and design flows at each flood crossing. Supporting hydrology calculations to be provided. Note that this report is independent of the Preliminary and Final Hydraulics Reports discussed in Task 4.1.

A separate Hydrology and Hydraulic Report will also be prepared for the evaluation of stormwater runoff from the proposed street improvements and upstream tributaries within the street right of ways. This analysis will evaluate the 10-year and 100-year storm to ensure flood protection is provided, per RCFC&WCD flood protection criteria. The 10-year flood shall be contained within the top of curbs, if applicable. The 100-year flood shall be contained with the street R/W limits. Storm drain inlets and/or conveyances will be added at critical locations, as required. Mitigation measures will be provided, as necessary, to ensure stormwater flows are discharged from the streets to the receiving channels at non-erodible velocities.

Task 4.3 NPDES Compliance

Priority Development Projects (PDPs) require compliance with Regional Board Order No. R7-2013-0011, also referred to as the Regional Municipal Separate Sewer System (MS4) Permit (Permit). This Order is an area-wide urban runoff management program for Riverside County Flood Control and Water Conservation District, the County of Riverside, Coachella Valley Water District

and the Unincorporated cities of Riverside County with the Whitewater River Basin.

A Water Quality Management Plan may be required by the local agency, as is allowed by the Permit. This project does not trigger any of the eight Priority Development Project categories, however due to the high profile nature and location of the project, a WQMP may be requested. This has been included as an optional task, pending determination by the Cities.

Task 5.0 Environmental Review, Coordination, Design and Permitting

The Western Coachella Valley Flood and Blowsand Roadway Improvement Project is subject to Federal and State environmental review and permitting requirements because the Coachella Valley Association of Governments requires an approval from FHWA. As such, the project is subject to the California Environmental Quality Act (CEQA) and the National Environmental Protection Act¹ (NEPA) for environmental assessment and compliance. This environmental review process considers other applicable Federal laws under the purview of other agencies (e.g., the Endangered Species Act, the Clean Water Act, the National Historic Preservation Act), and the completion of any environmental permit, approval, review, or study required under those other Federal laws.

CVAG is the project proponent and the CEQA lead agency. FHWA's responsibility for environmental review, consultation, and any other actions required by applicable Federal environmental laws for this project are being carried out by the California Department of Transportation (Caltrans) pursuant to 23 United States Code Section 327 (23 USC 327)² and the Memorandum of Understanding dated May 27, 2022 and executed by the FHWA and Caltrans.

Michael Baker's environmental work plan identified below is derived from the FHWA's Annotated Outline³ for the preparation of a joint CEQA/NEPA document, referred as the Environmental Impact Report and Environmental Impact Assessment (EIR/EIS) document. Additionally, our work plan includes the preparation of technical studies, public scoping meetings, mandatory project noticing, and regulatory coordination, consultation, and permitting with various wildlife and regulatory agencies.

Task 5.1 Project Initiation and Project Description

Task 5.1.1 Project Initiation for Environment Work Plan

Michael Baker will conduct an environmental project kickoff meeting with CVAG to obtain agreement on the basic project elements and define the project description and work plan. Michael Baker will review related project documents and relevant available information and conduct a visit to each of the three (3) sites.

Deliverable: Meeting Agenda and Meeting Minutes in PDF Format

Task 5.1.2 Literature/Record Research and Project Description

Michael Baker will obtain and review data for the analysis of project-relevant policies and documentation, as well as from local, state, and Federal agencies, which may be affected by the project. This information, along with data and information available from CVAG will become part of the foundation for the EIR/EIS.

Michael Baker will prepare a draft project description for review and comment by CVAG staff. After receiving comments and making the appropriate changes, we will submit a revised version of the project description, which will become the basis for the project's environmental analysis and technical studies.

Deliverables: Draft and Final Project Description in PDF Format

Task 5.2 - Technical Studies

Task 5.2.1 Air Quality Analysis

Michael Baker will summarize the existing Federal, state, and local air quality regulatory environment as it affects the proposed project and describe the location of sensitive receptors in the project vicinity. Using data provided by the California Air Resources Board (CARB) and the South Coast Air Quality Management District (SCAQMD), characterize existing air quality conditions in the project area and explain how those conditions are affected by local climate and topography.

Regional Conformity. Michael Baker will evaluate whether the project meets regional transportation conformity requirements by determining whether it is included, as currently defined, in the most recent Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) and Federal Transportation Improvement Program (FTIP) prepared by the Southern California

¹Since 2007, Caltrans has performed federal responsibilities for environmental decisions and approvals under NEPA for highway projects in California that are funded by FHWA. These responsibilities have been assigned to Caltrans by FHWA pursuant to two Memoranda of Understanding (MOU) signed by FHWA. The 23 USC 327 MOU allows Caltrans to approve Environmental Assessments (EA) and Environmental Impact Statements (EIS), and Categorical Exclusions that cannot be approved as 326 CEs. The MOU between the Federal Highway Administration and the California Department of Transportation concerning the state of California's participation in the surface transportation project delivery program pursuant to 23 U.S.C. 327, signed May 27, 2022.

² <https://dot.ca.gov/programs/environmental-analysis/nepa-assignment/assignment-under-the-23-usc-327-mou>

³ <https://dot.ca.gov/programs/environmental-analysis/standard-environmental-reference-ser/forms-templates>

Association of Governments (SCAG).

Project-Level Conformity. Michael Baker will evaluate whether the project meets project-level transportation conformity requirements, which will also be used to support the CEQA/NEPA analysis.

- **Localized Carbon Monoxide Hot Spot Analysis.** Analyze the degree to which project-related traffic volumes have a potential to effect local carbon monoxide (CO) concentrations using the California Department of Transportation CO Hotspot Protocol. It is anticipated that the CO screening procedure will be appropriate, and that CALINE-4 dispersion modeling will not be required.
- **Localized PM_{2.5}/PM₁₀ Hot Spot Analysis.** The PM Hot Spot Analysis will assess the degree to which project-related traffic volumes have a potential to affect local PM_{2.5} and PM₁₀ concentrations. Michael Baker will prepare the required PM Conformity documentation and submit to Caltrans for review and approval. Caltrans will then forward the documentation to the SCAG Transportation Conformity Working Group (TCWG). Michael Baker will lead the TCWG interagency consultation on behalf of the project sponsor via conference call. Based on our review of the proposed project description, it is assumed that the project will not be considered a Project of Air Quality Concern (POAQC), and that a screening-level PM conformity analysis will be sufficient.

Evaluation of Construction-Period Emissions. A quantitative construction analysis will be performed to evaluate regional and localized mass emissions. Based on preliminary construction scheduling and phasing information, construction emissions will be quantified using the Road Construction Emissions Model (RCEM).

Evaluation of Operations-Period Mass Emissions. Regional criteria pollutant emissions will be quantified using project-level vehicle miles traveled and EMFAC2017 emissions factors (with CARB SAFE Rule adjustment factors).

Mobile Source Air Toxics. Evaluate proposed project-related mobile source air toxics (MSATs) emissions in accordance with FHWA updated interim guidance on how MSATs should be addressed in NEPA documents. It is assumed that a qualitative analysis will be prepared.

Deliverables:

- Draft Air Quality Assessment report (electronic format)
- Final Air Quality Assessment report (electronic format)

Task 5.2.2 Greenhouse Gas Emissions

A quantification of operational-period greenhouse gas (GHG) emissions associated with implementation of the proposed project will be conducted. Operations-period GHG emissions will be quantified using regional daily vehicle miles traveled and EMFAC2017 emissions factors. Michael Baker will present a comparison of GHG emissions under the Build Alternatives and the No-build Alternative to characterize effects of the proposed project on GHG emissions. The analysis of climate change also will also incorporate the most recent guidance found on the Caltrans

Standard Environmental Reference (SER) and Caltrans annotated outline. Construction GHG emissions will be quantified using the RCEM.

Deliverables:

- Draft GHG Emissions report (electronic format)
- Final GHG Emissions report (electronic format)

Task 5.2.3 Energy Assessment

Michael Baker will analyze the energy implications of the project pursuant to Public Resources Code Section 21100(b)(3) and Appendix G and Appendix F of the State CEQA Guidelines. These statutes and guidelines require a project to describe, where relevant, the wasteful, inefficient, and unnecessary consumption of energy caused by a project. In addition, Appendix G of the CEQA Guidelines requires a consistency analysis with state or local plans for renewable energy or energy efficiency. The analysis will analyze energy consumption associated with short-term construction activities and long-term operations using EMFAC2017. The analysis will also discuss the effects of the project on regional and local energy supply, demand, and resources, and the project's consistency with energy standards and requirements.

Deliverables:

- Draft Energy report (electronic format)
- Final Energy report (electronic format)

Task 5.2.4 Noise Study Report

Michael Baker will assess the noise impacts associated with implementation of the proposed project. The noise analysis will be presented in a Noise Study Report (NSR) consistent with the procedures and requirements specified by FHWA in Title 23, Section 772 of the Code of Federal Regulations (CFR) (23 CFR 772) and the Caltrans Traffic Noise Analysis Protocol (Protocol). The NSR will satisfy the requirements of NEPA and CEQA.

Michael Baker noise staff will prepare a Noise Work Plan for Caltrans review and approval prior to initiating the noise work.

Michael Baker will conduct traffic noise modeling of the build alternative and the no-build alternative using the FHWA Traffic Noise Model (TNM) Version 2.5 and traffic data to be provided by the project traffic engineer. This scope assumes that the project engineer will provide 3-D Computer Aided Design (CAD) topographical maps, with elevation contours at no greater than 2-foot resolution, that extend at least 500 feet outside of the right-of-way in all directions. TNM will be used to model worst hour traffic noise conditions at representative modeled receiver locations under existing conditions and design-year conditions with and without the proposed project.

Michael Baker will prepare a NSR addressing the requirements of 23 CFR 772 in accordance with guidance

in the Protocol and following the NSR format indicated in the Caltrans Annotated Noise Study Report Outline. Should impacts be identified, the NSR will include a preliminary noise abatement design to schematically identify the location, height, and extent of noise barriers needed to abate noise impacts.

Deliverables:

- Draft Noise Study report in PDF Format
- Final Noise Study report in PDF Format

Task 5.2.5 Cultural Resources Assessment

Michael Baker will prepare the cultural resources studies necessary to address requirements of Section 106 of the National Historic Preservation Act (NHPA), NEPA, CEQA, and the Caltrans 2014 First Amended Programmatic Agreement Among The Federal Highway Administration, the Advisory Council on Historic Preservation, the California State Historic Preservation Officer, and the California Department of Transportation Regarding Compliance With Section 106 of the National Historic Preservation Act, as it Pertains to the Administration of the Federal-Aid Highway Program in California (Section 106 PA). Reports will be prepared in compliance with the Caltrans Standard Environmental Reference (SER). It is anticipated that two documents will be required: a Historic Property Survey Report (HPSR) and Archaeological Survey Report (ASR) per Caltrans standards. These reports will be submitted concurrently. The reports will satisfy requirements of CEQA and Section 106 of the NHPA.

The HPSR is the cover document for cultural resources technical studies and the ASR documents the identification efforts for archaeological resources. To complete these studies, we will complete:

- The Area of Potential Effects (APE) delineation pursuant to Caltrans standards.
- A records search at the Eastern Information Center with a 1/2-mile search radius. The records search identifies previously recorded or otherwise known cultural resources and previous cultural resources studies within or adjacent to the APE. A review of cultural resource inventories will be completed to identify cultural resources that may be listed within or adjacent to the APE. If available, appropriate City/County listings will be reviewed.
- Background research and literature review consisting of a review of archaeological, ethnographic, historical, and environmental publications and maps at historical archives. The background research will identify previously recorded or otherwise known cultural resources.
- As-built request to Caltrans and review to guide the buried site sensitivity analysis.
- Consultation with the Coachella Valley History Museum to identify any information or concerns they may have about the project within the APE.
- A Native American Heritage Commission Sacred Lands File search

to assist Caltrans with meeting Native American consultation requirements pursuant to Section 106 of the NHPA. We will contact the Native American Heritage Commission in Sacramento for a review of the Sacred Lands File to determine if the APE contains any known sacred lands, and a list of Native American contacts who may have concerns about the project within the APE. We will work with Caltrans to draft and send a consultation letter to tribes identified on the NAHC contact list. We will follow up on consultation requests with an email and/or phone call to the tribes. No meetings with tribes have been scoped for this project.

- An archaeological field survey of the 4.5-mile APE.
- Consultation with Caltrans Professionally Qualified Staff throughout the document preparation process.

AB 52 Consultation: We will assist CVAG with Native American consultation requirements pursuant to Assembly Bill (AB) 52.

Deliverables:

- Draft Historic Property Survey Report and Archaeological Survey Report in PDF Format
- Final Historic Property Survey Report and Archaeological Survey Report in PDF Format
- AB 52 consultation letter in Word Format

Task 5.2.6 Transportation

CEQA Vehicle Miles Traveled Assessment

Michael Baker will conduct a Vehicle Miles Traveled (VMT) analysis consistent with the County of Riverside Transportation Analysis Guidelines for Level of Service, Vehicle Miles Traveled (December 2020) or other guidelines as directed by CVAG staff at the time of analysis. Based on a preliminary review of the transportation project screening criteria, it is anticipated that the Varner Road and Date Palm Drive projects can be determined to have a less-than-significant transportation impact since these projects will not include adding motor vehicle throughput capacity to each of these roadways. However, since the Indian Canyon Drive project is anticipated to include an increase in motor vehicle capacity, the project is anticipated to require a full VMT assessment to calculate VMT using a regional travel demand model. Michael Baker will lead the VMT assessment effort with travel demand modeling support from Translutions, Inc.

Screening Memorandums (Varner Road and Date Palm Drive)

Michael Baker will conduct the detailed VMT screening analysis consistent with the appropriate guidelines for the Varner Road and Date Palm Drive projects. The Michael Baker Team anticipates that each of these projects will be exempt from a full VMT assessment upon completion of the screening criteria review given the lack of increased motor vehicle capacity.

VMT Assessment Memorandum (Indian Canyon Drive)

Michael Baker will prepare a methodology memorandum to serve as a scoping document which will outline the recommended VMT analysis methodologies and assumptions. The methodology memorandum, which will include the detailed screening analysis and will be submitted to CVAG staff for their review prior to conducting any required VMT analysis. Michael Baker has the in-house qualifications to conduct this analysis with travel demand modeling support provided by Translutions, Inc. Translutions will modify the RivTAM to evaluate the Indian Canyon Drive project including roadway widening. Consistent with the VMT guidelines, this task will be conducted using the base and future year models. It is not anticipated that significant network edits will be required as part of this task. Based on the requirements, VMT for the following scenarios will be calculated: (1) Base Year without project; (2) Base Year with project; (3) Future Year without project; and (4) Future Year with project.

Feasible mitigation measures will be recommended and calculated either based on the County of Riverside Checklist, the CAPCOA checklist, or using percentage VMT reductions from CalEEMod. Michael Baker will prepare a VMT assessment memorandum to discuss the findings of the analysis. This scope of work includes a total of two submittals to the CVAG (one draft report for CVAG review and one final report with CVAG comments addressed).

NEPA Support

Additional traffic operations analysis will be prepared to support the NEPA process. This task will include development of segment traffic volumes for each of the three projects. Further study will be prepared for the Indian Canyon Drive project to evaluate the capacity expansion. This task will result in the following:

- 1. Varner Road** - Traffic Volume Technical Memorandum to document the segment daily, AM Peak Hour, and PM Peak Hour volumes along the corridor, by direction. Volumes will be developed for Existing, Opening Year, and Design Year conditions. Future No Build and Future Build traffic volumes are anticipated to be the same.
- 2. Date Palm Drive** - Traffic Volume Technical Memorandum to document the segment daily, AM Peak Hour, and PM Peak Hour volumes along the corridor, by direction. Volumes will be developed for Existing, Opening Year, and Design Year conditions. Future No Build and Future Build traffic volumes are anticipated to be the same.
- 3. Indian Canyon Drive** - Traffic Operations Analysis Technical Memorandum to document the volume development and traffic operations analysis. The operations analysis will be conducted to support the NEPA process given the planned capacity expansion along the corridor.

Analysis methodologies, assumptions, and findings will be documented in three separate technical memorandums, one for each project. This scope of work includes a total of two

submittals to the CVAG (one draft report for CVAG review and one final report with CVAG comments addressed).

Traffic Data for Air Quality and Noise Analysis

Additionally, traffic data not required for the previous analysis, but needed for the air quality and noise analysis will also be developed as needed including:

- 1.** Segment traffic operations analysis for the Varner Road and Date Palm Drive projects to obtain operating speeds.
- 2.** Regional VMT for the Opening Year No Build and Build conditions for the Varner Road and Date Palm Drive projects.

Deliverables (in electronic format):

- CEQA Vehicle Miles Traveled Assessment in PDF Format consisting of:
 - Varner Road VMT Screening Memorandum
 - Date Palm Drive VMT Screening Memorandum
 - Indian Canyon Drive VMT Screening and Methodology Memorandum
 - Indian Canyon Drive VMT Assessment Memorandum
- NEPA Support in PDF Format consisting of:
 - Varner Road Traffic Volume Technical Memorandum
 - Date Palm Drive Traffic Volume Technical Memorandum
 - Indian Canyon Drive Traffic Operations Analysis Memorandum
- Dataset for use in the air quality and noise technical studies

Task 5.2.7 Location Hydraulic Study and Summary Floodplain Evaluation Report

The project locations lie within mapped FEMA Floodplains per FEMA Panel Nos. 06065C0895G and 06065C1577G (both Effective 8/28/2008). Because this project lies within a mapped floodplain, Federal Regulations and Executive Order 11988 and Riverside County Ordinance 458 require that the flood hazard risk be evaluated. MBI has extensive experience preparing Location Hydraulic Studies (LHS) and Summary Floodplain Evaluation Reports (SFER) for review by Caltrans District 8 as part of their oversight process. Michael Baker will complete the Location Hydraulic Study and Summary Floodplain Evaluation Report in accordance with Chapter 17 of the Standard Environmental Reference and HDM Figures 804.7A and 804.78. Existing Condition hydrology and hydraulic models will be referenced from existing studies. New off-site (Regional) hydrology is not included in this scope of work.

Deliverables:

- Draft Location Hydraulic Study and Summary Floodplain Evaluation Report in PDF Format
- Final Location Hydraulic Study and Summary Floodplain Evaluation Report in PDF Format

Task 5.2.8 Water Quality Assessment Report

A Water Quality Assessment Report (WQAR) will qualitatively discuss the project's impacts on receiving water quality during construction and post-construction conditions based on the region's applicable stormwater

regulations and consistent with the NPDES permit requirements. The report will discuss the following:

- The evaluation of the potential impacts related to implementing the project.
- Regional Hydrology, Local Hydrology, Floodplains, Precipitation and Climate, Groundwater Resources, Soils/Erosion Potential, Surrounding Land Uses, and Topography.
- The applicable requirements of the local NPDES permit (Order No. R7-2013-0011, or subsequent permit in effect at time of preparation), Federal Clean Water Act (CWA), State Water Quality Regulations (Statewide General Construction Permit), State Requirements under Section 402 of the Federal CWA, Beneficial Uses, Groundwater and Surface Water Quality Objectives, and Impaired Waters. A risk analysis will be conducted consistent with the California Statewide General Construction Permit (Order 2009-0009-DWQ).
- Potential stormwater quality mitigation measures (Best Management Practices) that may be needed per the water quality requirements applicable to the project.

Deliverables:

- Draft Water Quality Assessment Report (electronic format)
- Final Water Quality Assessment Report (electronic format)

Task 5.2.9 Biological Assessment

Michael Baker will conduct a database search of the California Department of Fish and Wildlife's (CDFW) California Natural Diversity Database, the California Native Plant Society (CNPS) Electronic Inventory of Rare and Endangered Vascular Plants of California listings, and the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation online system and Critical Habitat mapper to preliminarily identify any special-status biological resources known to occur within the general vicinity of the project sites. In addition, a detailed review of the Coachella Valley Multiple Species Habitat Conservation Plan (MSHCP) will be conducted for implications on the proposed project.

Michael Baker will systematically survey the project site to document baseline biological conditions and evaluate the site's potential to support special-status plant and wildlife species, including habitats and species covered under the MSHCP. The field survey will be conducted by a qualified biologist(s) to document the presence/absence of special-status biological resources, or to determine the potential for occurrence of such resources that may not be detectable when the literature review is conducted. In addition, the location of any special-status plant and wildlife species and vegetation communities will be mapped, if present on-site. Vegetation communities occurring within the project site will be classified in accordance with the vegetation descriptions provided in the MSHCP and cross-referenced with A Manual of California Vegetation (Sawyer et al. 2009). Data collected during the field survey will provide an overall understanding of the project setting and biological resources potentially occurring in the area.

Michael Baker will then prepare a comprehensive report to summarize the information and results obtained during the literature review and field survey, document all plant, wildlife, and vegetation communities observed, and determine the potential for any special-status species to occur on or within the vicinity of the project sites. In addition, the report will provide an analysis of anticipated project-related impacts to biological resources and identify any additional biological surveys, mitigation measures, and/or permit requirements that may be required prior to implementation of the proposed project. Further, the report will include a consistency analysis to document compliance with the MSHCP and identify potential impacts to MSHCP-covered species and habitats. The final report will be sufficient for use by Caltrans as the federal lead agency to demonstrate compliance with CEQA and NEPA. Site photographs taken during the field survey and Geographic Information Systems figures will be included in the report to further enhance written text and visually identify specific biological information as it relates to the project site.

Assumptions and Exclusions: This task anticipates the field survey effort will be conducted in two (2) days and allows for two (2) rounds of review/revisions to the draft report before accepted as final. This task also assumes that the CVAG will provide full access to the project site, as well as keys to locked gates and advance notice of our right of entry. This task also assumes that the report will not be prepared following Caltrans guidelines for preparation of a Natural Environment Study/Natural Environment Study-Minimal Impacts (NES/NES-MI). If required, an additional scope and fee would be required and submitted to CVAG for review/approval.

Deliverables: Michael Baker will submit an electronic copy (PDF) of the final report to CVAG.

Task 5.2.9.1 Focused Burrowing Owl Surveys

Based on a preliminary review of occurrence records in the CNDDDB (CDFW 2022), burrowing owls have been documented within the vicinity and in similar habitat to that which occurs on the project site. Therefore, to ensure the analysis of potential impacts to biological resources is compliant with current standards under the CEQA, requirements of the MSHCP, and guidance provided by CDFW, Michael Baker biologists will conduct focused surveys to map the extent of suitable habitat and confirm the presence/absence of burrowing owls on and within the immediate vicinity of the project site.

All suitable burrows/nest sites, including rock piles and non-natural substrates, will be mapped and thoroughly examined for signs of presence and all burrows encountered will be examined for shape, scat, pellets, feathers, tracks, and prey remains. The locations of any remnant/occupied burrows/nests or burrowing owl sign will be recorded with a hand-held GPS unit.

Following the completion of the final survey, Michael Baker will prepare a letter report summarizing the methods, conditions, and results of the focused surveys. Site photographs and GIS figures will be included in the final report to further enhance written text and visually depict the locations of any suitable habitat/burrows, occupied or remnant burrows, sign, and/or burrowing owls, if found.

Assumptions & Exclusions: This task assumes four (4) field surveys will be conducted and allows for one (1) round of response to comments on the draft report before accepted as final. This task excludes the preparation of a Burrowing Owl Exclusion Plan.

Deliverables: Michael Baker will submit an electronic copy (PDF) of the final report to CVAG.

Task 5.2.9.2 Coachella Valley Fringed-Toed Lizard Protocol Surveys

Based on a preliminary desktop review, a number of records of the federally-listed-threatened and State-listed endangered Coachella Valley fringed-toed lizard (*Uma inornate*) occur within close proximity of all three road segments. This species is also a Covered Species under the CVMSHCP. As a result, Michael Baker proposes to conduct protocol-level surveys for this species following USFWS (2007) protocols described in Coachella Valley Fringe-toed Lizard (*Uma inornate*) Survey Protocol. Per protocol, six surveys would be conducted between April and October over the same area on separate days, using transects spaced five (5) meters apart. Surveys would be conducted following the time of day, temperature, and other requirements outlined in the USFWS protocols. Following completion of the surveys, a letter report describing the survey methods and results would be prepared.

Assumptions and Exclusions: This task assumes the six (6) focused field survey prescribed under the protocol will be conducted by three (3) qualified biologists and allows for one (1) round of review/revisions of the survey report prior to accepted as final.

Deliverables: Michael Baker will submit an electronic copy (PDF) of the final survey report to CVAG.

Task 5.2.9.3 Rare Plant Surveys

Based on a preliminary desktop review, records of the federally-listed endangered Coachella Valley milk-vetch (*Astragalus lentiginosus* var. *cochellae*) occur within proximity of all three road segments. This species is also a Covered Species under the CVMSHCP. As a result, Michael Baker proposes to conduct rare plant surveys during the blooming period (February through May) for this species following CDFW (2018) protocols described in Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Sensitive Natural Communities. Following completion of the surveys, a letter report describing the survey methods and results would be

prepared following the survey protocols.

Assumptions and Exclusions: This task assumes the two (2) focused field surveys will be conducted by three (3) qualified botanists/biologists and allows for one (1) round of review/revisions of the survey report by CVAG before accepted as final. This task also includes time to track when the species is blooming in order to appropriately time/schedule the rare plant surveys.

Deliverables: Michael Baker will submit an electronic copy (PDF) of the final survey report to CVAG.

Task 5.2.9.4 Joint Project Review Application

If impacts would occur within MSHCP Conservation Areas, the proposed project would be subject to the Joint Project Review (JPR) by the CVCC. Michael Baker will provide technical support to CVAG to review and respond to comments received from the CVCC, USFWS, and/or CDFW.

Assumptions: This task assumes one (1) round of review/revisions with CVAG before accepted as final, and two (2) rounds of review/revisions with the CVCC, USFWS, and CDFW.

Deliverables: Michael Baker will submit an electronic copy (PDF) of the final JPR Application to the CVAG.

Task 5.2.9.5 Protocol Desert Tortoise Surveys

If required, Michael Baker biologists will conduct protocol surveys to determine the presence/absence of desert tortoise (federally/State threatened and MSHCP Covered Species).

Following completion of the survey, Michael Baker will prepare a letter report documenting the methods and results of the presence/absence survey, as well as identify any additional mitigation measures that may be required for the proposed project. The report will be supported by tables, figures, maps, and photographs as necessary to present a complete analysis.

Assumptions and Exclusions: This task assumes the three (3) field surveys prescribed under the protocol will be conducted by three (3) qualified biologists and allows for one (1) round of review/revisions of the survey report before accepted as final.

Deliverables: Michael Baker will submit an electronic copy (PDF) of the final survey report to CVAG.

Task 5.2.9.6 Biological Resources Technical Report (Optional Task)

If impacts would occur on lands managed by the U.S. Bureau of Land Management (BLM), Michael Baker will prepare a Biological Resources Technical Report (BRTR) for the proposed project. A database search of the CDFW California Natural Diversity Database, the CNPS Inventory of Rare and Endangered Vascular Plants of California listings, and the USFWS Information for Planning and Consultation online

system and Critical Habitat mapper will be conducted to preliminarily identify any special-status biological resources known to occur within the general vicinity of the project site, particularly those protected by the BLM that may not have been previously considered.

Vegetation communities occurring within the project site will also be classified in accordance with the vegetation descriptions provided in the MSHCP and the Proposed California Desert Conservation Area Plan Amendment for the Coachella Valley (BLM 2002).

This report is a BLM requirement and will follow an agency-specific format, as well as evaluate potential impacts to federally listed species for the purposes of future Section 7 consultation between the BLM and USFWS. New contemporary site photographs taken during the field survey and updated GIS figures will be included in the report to further enhance written text and visually identify specific biological information as it relates to the project site.

Assumptions and Exclusions: This task assumes one (1) field survey will be conducted by two (2) qualified biologists and two (2) rounds of review/revisions of the BRTR by the BLM to the draft BRTR before accepted as final. This task excludes additional/updated protocol surveys or pre-construction surveys for special-status plant and wildlife species; should any species-specific surveys be required or requested by BLM, an additional scope and fee would be required before the work could be conducted.

Deliverables: Michael Baker will submit an electronic copy (PDF) of the final BRTR to CVAG and the BLM.

Task 5.2.9.7 Biological Assessment (Optional Task)

If federally listed species and species protected by the BLM and/or USFWS are either known to be present on-site or are assumed to be present, the BLM will need to undergo Section 7 consultation with the USFWS pursuant to the Federal Endangered Species Act. Michael Baker will prepare a Biological Assessment (BA) to initiate formal Section 7 consultation for authorization of take of federally listed species on BLM-administered lands. The completed BA would be submitted to the BLM to submit to the USFWS to initiate Section 7 consultation.

Assumptions and Exclusions: This task assumes two (2) rounds of review/revisions of the BA by CVWD and the BLM before accepted as final. This task has been proposed conservatively to assume that a full BA would be required for the project, with the understanding that it may be possible to undertake a streamlined BA/Section 7 process between the BLM and USFWS based on compliance with the MSHCP. The possibility of a streamlined BA would be ascertained after completion of the BRTR (Task 7 above) in consultation with the BLM and USFWS and this scope of work may adjust accordingly if the streamlined process is approved.

Deliverables: Michael Baker will submit an electronic copy (PDF) of the final BA to CVAG and the BLM.

Task 5.2.10 Aquatic Resources Delineation Report

Michael Baker will conduct a site reconnaissance and perform a delineation of jurisdictional “waters of the United States” and “waters of the State” (including potential wetlands), located within and/or immediately adjacent to the boundaries of the project site. The jurisdictional delineation will result in:

- A determination of the U.S. Army Corps of Engineers (Corps) ordinary high-water mark (OHWM) and indicate the existence of any three (3) parameter wetlands on-site. The actual presence or absence of wetlands on-site will be verified through the determination of the presence of wetland hydrology, hydrophytic vegetation, and hydric soils pursuant to the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0) (Corps 2008);
- The California Department of Fish and Wildlife’s (CDFW) jurisdiction identified on-site as a streambed or to the outer drip line of riparian vegetation (if present) pursuant to Section 1600 et seq. of the California Fish and Game Code (CFGCC); and
- A determination of the Regional Water Quality Control Board’s (Regional Board) jurisdiction based on the adopted State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State (State Water Resources Control Board, 2019). In cases where federal jurisdiction is not present, the delineation will identify areas under the jurisdiction of the Regional Board pursuant to Section 13263 of the California Porter-Cologne Water Quality Control Act.

Michael Baker will prepare a letter report discussing on-site jurisdictional areas. Pursuant to agency requirements, the report will include the required exhibits to enhance the written text and identify jurisdictional areas. This task includes time for GIS analysis to support the preparation of the jurisdictional delineation figures. The delineation figures will be a scale of 1" = 300' or greater and will consist of an aerial photograph. Drainage and/or wetland features will be overlaid on the aerial photograph and the extent (acreage and linear feet) of each agency’s jurisdiction will be identified.

Assumptions and Exclusions: This task assumes one (1) field survey will be conducted by two (2) qualified wetland delineators and allows for one (1) round of review/revisions by the Client prior to submittal.

Deliverables: Michael Baker will submit an electronic copy (PDF) of the final Aquatic Resources Delineation Report to the Client.

Task 5.3 - Notice of Preparation/Notice of Intent & Public Scoping Meeting

Task 5.3.1 - Notice of Preparation and Notice of Intent

Michael Baker will prepare the Notice of Preparation (NOP) and Notice of Intent (NOI) which will identify the potentially significant effects of the project that will require further analysis in the EIR/EIS. The distribution process will include

the following steps:

- Michael Baker will distribute the NOP/NOI to up to 10 agencies via FedEx and residents that have requested notices via first-class mail. Michael Baker will provide a version of the NOP/NOI suitable for newspaper publishing by CVAG. CVAG will be responsible for publishing the notice with the newspaper. Michael Baker will submit the NOP/NOI to the State Clearinghouse with a Notice of Completion (NOC) form. CVAG will coordinate with Caltrans/FHWA to publish the NOI in the Federal Register.

Deliverables:

- Draft Notice of Preparation/Notice of Intent in Word Format
- Final Notice of Preparation/Notice of Intent (Up to 50 hard copies) and in PDF Format

Task 5.3.2 - Public Scoping Meeting

Michael Baker will assist CVAG in conducting a scoping meeting during the 30-day NOP/NOI public review period. Michael Baker will facilitate the public meeting, including intake of public comments on the project. We will provide a draft and final presentation, as well as comment sheets, sign-in sheets, and speaker cards. .

Michael Baker will consolidate the written comments received during the scoping meeting and public review period for agency consideration and documentation in the EIR/EIS.

Deliverables:

- Draft Presentation in Microsoft PowerPoint Format
- Final Presentation in Microsoft PowerPoint Format
- Meeting Materials (Sign-in Sheet and Comment Cards)
- Meeting Minutes in PDF Format

TASK 5.4 - Preparation of the EIR/EIS

The Draft EIR/EIS will be prepared in accordance with the State CEQA Guidelines with consideration of CVAG's guidance including local guidelines and thresholds, and the FHWA's NEPA Guidance documents including Council on Environmental Quality (CEQ) Regulations for Implementing NEPA (40 CFR 1500-1508), FHWA's Environmental Impact and Related Procedures (23 CFR 771).

Task 5.4.1 Administrative Draft EIR/EIS Preparation

Michael Baker will prepare a comprehensive Administrative Draft EIR/EIS for lead agency review. The proposed outline and approach for the Draft EIR/EIS is further described below and derived from the FHWA's Annotated Outline for an EIS and the State CEQA Guidelines but can be modified to best conform to the project needs.

Executive Summary

This section will contain a summary of the proposed project and alternatives and associated environmental consequences. This section will identify each potential environmental impact; the level of significance of each impact; mitigation measures required; and impacts after mitigation. The summary will also note areas of known

controversy and an assessment of the alternatives reviewed and their associated impacts.

Introduction

This section will introduce the project's purpose and needs, summarize the EIR/EIS process, and use of the EIR/EIS. The purpose and need statements will drive the development of the range of alternatives. The project's needs will likely include transportation demand, safety, legislative direction, urban transportation plan consistency, modal interrelationships, and the condition of the existing roadways and circulation system.

Proposed Project and Project Alternatives

- The project description will fully describe the Project Description and Project Alternatives, including a comparison of Project Alternatives.
- Preferred Alternatives
- Alternatives Considered by Eliminated from Further Consideration

The section will describe the process that was used to develop, evaluate, and eliminate potential alternatives based on the purpose and need of the project. The discussion will include alternatives were selected for detailed study, the reasons why some alternatives were eliminated from consideration and describe how the alternatives meet the need for the project. T This section will also identify the project objectives, as well as, permits and approvals needed to develop the project.

Environmental Setting / Affected Environment

The environmental setting will provide narrative and map descriptions of the existing environment. In addition, the geographic character of the area will be described and illustrated here, including land use/zoning, vegetation, wetlands, floodplains and wildland fire hazard zones, as applicable.

Environmental Assessment and Consequences

This section will describe the impacts of project alternatives on the environment and documents the methodologies used in evaluating these impacts. Information in this section is used to compare project alternatives and their impacts. This section will describe in detail both the impacts of the proposed action and the potential measures that could be taken to mitigate these impacts. Mitigation must be considered for all identified impacts, regardless of their significance. The prelude to the topic specific environmental analysis will include an explanation of how the impact analysis will proceed and include an assessment of irreversible and irretrievable impacts, construction impacts, and cumulative impacts.

Each environmental resource topic addressed in the EIR/EIS will have the following subsections:

- The existing conditions sections will be based on existing data sources, relevant technical reports and desktop research.
- The impact analysis will evaluate the potentially significant impacts of the project based on applicable thresholds, qualitative and quantitative

discussion, with consideration of the environmental context. Also see Technical Approach to Environmental Topics below for discussion of the environmental approach by CEQA topic.

- Avoidance, Minimization, and/or Mitigation Measures will be included if needed and feasible to reduce impacts to less than significant levels.
- The cumulative analysis for each topic will consider the impacts of the project, in combination with other past, present, and reasonably foreseeable projects in the area. A list of cumulative projects (identified in the environmental setting section) or summary of cumulative buildout conditions for the relevant geographic area for the topic will form the basis for the cumulative impact analysis. The geographic study area for each analysis will vary by topic.

Pursuant to CEQA and NEPA requirements the following list of resource topics will be addressed in the EIR/EIS document:

- | | |
|---|--|
| ■ Land Use | ■ Species |
| ■ Environmental Justice and Social Impacts | ■ Cultural Resources, Historic and Archeological Preservation / Tribal Resources |
| ■ Economic Impacts | ■ Hazards & Hazardous Materials |
| ■ Air Quality / Greenhouse Gas Emissions | ■ Aesthetic & Visual Impacts |
| ■ Transportation & Circulation | ■ Energy |
| ■ Noise | ■ Utilities and Public Services |
| ■ Water Quality and Hydrology & Floodplains | ■ Irreversible and Irrecoverable Commitment of Resources |
| ■ Biological Resources / Threatened or Endangered | ■ Farmland and Forestry |

Other Federal Requirements and CEQA Considerations

This section will address growth inducing impacts of the project and a summary of significant and unavoidable impacts of the project.

Deliverable: Administrative Draft EIR/EIS in Word and PDF Format

Task 5.4.2 Screencheck Draft EIR/EIS Preparation

Michael Baker will revise the Administrative Draft EIR by addressing one round of comments to be provided in an editable, electronic format (Microsoft Word). Michael Baker will identify any comments which need clarification, guidance, or further discussion with CVAG for comment resolution.

Deliverable: Screencheck Draft EIR/EIS in Word and PDF Format

Task 5.4.3 Circulation of Draft EIR/EIS and Public Notification

This task involves the production, editorial work, and communication processes anticipated to publish the Draft EIR/EIS for public review and comment. Upon approval of the Screencheck Draft, Michael Baker will prepare the Draft EIR/EIS for publication and distribution.

Public notification will include preparing the Notice of Availability (NOA) and Notice of Completion (NOC) for the State Clearinghouse, and key transmittals. The NOA/

NOC will indicate where the Draft EIR/EIS can be accessed for review, including an on-line webpage and hard copy placement at CVAG's office.

Michael Baker will submit the Draft EIR/EIS to the State Clearinghouse for a 45 day public review via electronic submittal. Michael Baker will distribute the NOA parties on the CVAG's agency notification list via certified mail or other trackable means of delivery and submit the NOA/NOC to the Riverside County Clerk for posting. The NOA/NOA will also be distributed to a radius distribution list as defined by CVAG.

CVAG will be responsible for publishing the Draft EIR/EIS and Notices on its website, and publication of the NOA/NOC in a local newspaper.

CVAG will coordinate with Caltrans/FHWA to publish the notification in the Federal Register.

Deliverables:

- Draft EIR/EIS (four hard copies of the Draft EIR/EIS and Appendices on Disc)
- Draft EIR/EIS (electronic format)
- Draft EIR/EIS and NOA/NOC to the State Clearinghouse (electronic submittal)
- NOA/NOC to CVAG's agency distribution list; approximately 30 parties (certified mail or other trackable means)
- NOA/NOC to radius mailing list; approximately 30 parties (via U.S. Mail)

Task 5.4.4 Final EIR/EIS Preparation

Following the formal comment period and receipt of written comments from the public and other agencies, the Final EIR/EIS will be developed and issued. The Final EIR/EIS will address the written comments on the Draft EIR/EIS and identify, based on analysis and comments, the "preferred alternative." The Final EIR/EIS must identify and describe the preferred alternative and the basis for that decision.

Michael Baker will prepare draft Response to Comments letters for CVAG review (CEQA requirement).

Any revisions to the Draft EIR/EIS will be in an errata format/section indicating what section is being modified, with content changes identified in a strikeout (for deletions) and underline format (for additions).

Mitigation Monitoring and Reporting Program (CEQA requirement)

Michael Baker will prepare a Mitigation Monitoring and Reporting Program (MMRP) in a CVAG-approved format. The MMRP typically uses a tabular format including the following content: mitigation measure; entity responsible for implementing the measure; agency responsible for verifying the measure; monitoring and reporting schedule; and compliance criteria.

Statement of Overriding Consideration and Findings of Fact (CEQA requirement)

If desired by CVAG, Michael Baker is available to prepare

findings in accordance with State CEQA Guidelines Section 15091 for each effect identified in the EIR. Project alternatives will also be discussed. A Statement of Overriding Considerations will be prepared, if necessary, describing the CVAG's rationale for approving the project in light of any unavoidable significant environmental impacts.

The Notice of Determination (NOD) is the final step in the EIR process and must be filed with the County Clerk within five (5) days of project approval. Michael Baker will prepare a draft NOD and coordinate with CVAG to finalize the NOD. Michael Baker will file the NOD with the Riverside County Clerk and State Clearinghouse. CVAG will be responsible for payment of the applicable administrative and California Department of Fish and Wildlife filing fees.

The Record of Decision (ROD) is the final step in the EIS process and may not be issued sooner than 30 days after the approved final EIS is distributed for 90 days after the Draft EIS is circulated. The ROD will identify the selected alternative, present the basis for the decision, identify the alternatives considered, specify the "environmentally preferable alternative," and provide information on the adopted means to avoid, minimize and compensate for environmental impacts. CVAG will coordinate with Caltrans/FHWA in order for the federal lead agency to prepare and publish the ROD.

Deliverables (in Word and PDF format):

- Draft and Final EIR/EIS including the Response to Comments and Errata
- Draft and Final Comment Letters
- Draft and Final Statement of Overriding Considerations
- Draft and Final Findings of Fact
- Draft and Final Mitigation Monitoring and Reporting Program
- Draft and Final Notice of Determination

TASK 5.5 – REGULATORY COORDINATION, CONSULTATION AND PERMITTING

Task 5.5.1: USACE 404 Authorization

The USACE will allow use of the expedited Nationwide Permit Program (NWP) for projects that involve single crossings of a water feature with independent utility. Since each of the proposed roadway crossings can function independently of each other, the first step in our process will be to determine if the proposed improvements meet the requirements for authorization under an NWP. We anticipate that NWP 14- Linear Transportation Projects would apply, which limits the amount of permanent impacts or fill to 0.5-acre per crossing. We have the option of combining this permit with NWP 33 – Temporary Construction, Access, and Dewatering or reviewing other NWP types that may offer more flexibility, depending on the activities proposed at each crossing.

In the event that one or more crossings exceed the thresholds for 404 authorization under an NWP, Michael Baker will prepare an Individual Permit application

package for submittal to the USACE. Please note that we have scoped for the more work and schedule intensive IP application to avoid the need for an augment. Because the NWP requires less effort, Michael Baker can obtain NWPs for the crossings under the same scope and cost. Our task assumes preparation of 1 (one) IP or 1 (one) NWP application package that incorporates identified proposed improvements at the five crossings.

The IP application will be prepared for review by the applicant and then provided to the USACE via email FTP link and include the following components:

A standard Individual Permit (IP) will be prepared as impacts exceed standard conditions of the Nationwide Permit Program. Michael Baker will prepare a submittal package to the Corps to satisfy the requirements of Section 404 of the Clean Water Act (CWA).

Due to significant Corps staffing limitations, and based on our experience in IP processing, Michael Baker will also prepare the following documents during the IP process. We have found that the processing time is greatly reduced when the following items are provided to the Corps:

- **Public Notice:** Michael Baker will assist Corps staff in preparing the draft Public Notice for the project pursuant to Section 404(b)(1) of the Clean Water Act. Prior to preparing the Public Notice, Michael Baker will coordinate with the Corps to determine an appropriate notification radius. Following circulation of the Public Notice, Michael Baker will assist the Corps in responding to up to five (5) comments, as each comment letter may contain multiple comments. Additional responses can be provided under an approved task/budget augmentation.
- **Draft National Policy Act Compliance/NEPA Environmental Assessment (EA):** Issuance of a Corps IP is a federal action and therefore triggers NEPA. Michael Baker will prepare the EA that summarizes information about the proposed activities and addresses comments received by the community during the required Public Notice. This proposal assumes one round of comments from the Client and one set from the Corps. This task excludes the preparation of new studies not defined in this scope of work.

404(b)(1) Alternatives Analysis

Section 404(b)(1) of the Clean Water Act requires preparation of an Alternatives Analysis prior to issuance of an Individual Permit. The analysis focuses on the projects need for "water dependency," where applicable. The focus is on each alternative's impact or reduction of impacts to aquatic resources. An Alternatives Analysis will be completed as required under Section 404(b)(1) based on engineering/planning alternatives described in the engineering documents, as well as those set forth in the CEQA/NEPA document. Michael Baker assumes up to three (3) alternatives will be evaluated in detail part of the Alternatives Analysis.

The goal of the 404(b)(1) Alternatives Analysis is to identify possible alternatives that could avoid, minimize,

or mitigate for impacts to waters of the US (WoUS) caused by the proposed action while still accomplishing the primary objectives of the project. The Alternatives Analysis can consider the relative costs of each alternative, logistical constraints, technological practicability, off-site alternatives, and on-site alternatives. Michael Baker assumes the client will provide any economic data information to include within the alternatives analysis, where required. The components as required by the 404(b) (1) Guidelines, will be included as part of the Alternatives Analysis.

Other Federal Agency Consultation

The proposed improvements are expected to be considered covered activities under the Coachella Valley MSCHP. We understand that any Section 7 and Section 106 consultation will be conducted by Caltrans/FHWA during the CEQA/NEPA process. We anticipate that documentation of those consultation efforts would be provided to the USACE for their review and have included up to 8 hours of coordination time to facilitate transfer of documents and answer questions. Our scope of work does not include formal Section 7 or Section 106 consultation through the USACE.

Assumptions: This task assumes two (2) rounds of response to comments on the draft Section 404 application package from the applicant prior to acceptance as final

Deliverables: Draft application package (PDF); Final PDF to the Corps and PDF to the Client for file.

Task 5.5.2: 401 Water Quality Certification

Section 401 of the Clean Water Act (CWA) requires that any discharge of dredge or fill material into Waters of the U.S., including wetlands, not violate state water quality standards. Water quality certification must be obtained as a condition of Section 404 of the CWA before USACE will issue the 404 NWP. As required by the RWQCB, Michael Baker will submit a request for pre-application meeting 30 days prior to submittal of the 401 application materials. We will be prepared to discuss the project map, alternatives, proposed mitigation, and best management practices during the meeting. A written request for a Section 401 Water Quality Certification will then be submitted to the RWQCB, Colorado River Region. The 401 Water Quality Certification request generally includes the following items:

- A completed application form;
- A detailed project description;
- A description of project impacts;
- A description of best management practices to avoid erosion and sedimentation or discharge of materials into stormwater, both during construction and long-term project operation;
- A discussion of the approvals being obtained from other federal, state, and local agencies
- The project CEQA document (a draft of the document must be submitted for the application to be deemed complete);
- The application fee assessed using the RWQCB Dredge and Fill Fee

Calculator (to be assessed by Michael Baker and provided by the applicant).

- Alternatives Analysis as required by the Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State for projects with permanent impacts that exceed 0.1 acre and 100 linear feet of non-wetland waters

Pursuant to the State Permit Streamlining Act, the RWQCB has 30 days following receipt of the 401 application to deem an application complete or request additional information. Following a determination that the application is complete, the RWQCB has an additional 60 days to issue the 401 Water Quality Certification. Please note that RWQCB is not permitted to issue the 401 water quality certification until the CEQA document is adopted and the Notice of Determination is submitted.

Assumptions: This task assumes two (2) rounds of response to comments on the draft Section 401 application package from the applicant prior to acceptance as final

Deliverables: Draft application package (PDF); Final PDF to the RWQCB and PDF to the Client for file

Task 5.5.3: CDFW 1602 Streambed Alteration Agreement

Michael Baker will prepare the SAA application for submittal to CDFW to request authorization to temporary and permanent impacts to Waters of the State.

The application will be uploaded to the CDFW EPIMS online system. CDFW is a state agency; therefore, under the state Permit Streamlining Act, when the term of the requested agreement is 5 years or less, CDFW has 30 days following receipt of the 1602 application to deem an application complete or request additional information. Following a determination that the application is complete, CDFW has an additional 60 days to issue the draft 1602 SAA for review/signature by the applicant.

Assumptions: This task assumes two (2) rounds of response to comments on the draft Section 1602 application package from the applicant prior to acceptance as final

Deliverables: Draft application package: Application uploaded to CDFW through the online EPIMS and PDF to the Client for file.

Task 5.5.4: Resource Agency Coordination

Applications will be coordinated with the USACE, RWQCB, and CDFW throughout processing to ensure that any potential issues are communicated to CVAG and resolved at the earliest possible opportunity. Coordination may include telephone, email, or written correspondence, or meetings with the agencies. This scope of work includes up to 45 hours of agency coordination time, including one site visit with regulatory agency staff and the applicant.

Deliverables: Copies of agency correspondence, including emails, phone log, and meeting minutes associated with the 404, 401, and 1602 consultations.

TASK 5.6 - ENVIRONMENTAL TASKS MANAGEMENT

Task 5.6.1 Coordination Meetings

Michael Baker's environmental project manager will develop a regular meeting schedule with CVAG staff to coordinate on project status and action items throughout the project. It is assumed that these check-in meetings will be conducted via conference call or MS Teams software, which allows us to share our computer screen with participants to collaboratively review documents. It is expected that these meetings will occur monthly, with more frequent calls necessary during project ramp-up and critical review and comment cycles. As a preliminary estimate, 20 hours of meeting time is included. Additional coordination hours may be authorized by CVAG and will be charged on a time and materials basis. Where possible, these meetings will be held concurrently with the overall design team meetings to save time and budget.

Task 5.6.2 Public Hearings

Michael Baker anticipates attendance at three public hearings. The environmental project manager, as well as one technical staff member, will attend these project hearings. In the event that additional meeting time is required, or that the CVAG would like Michael Baker to attend additional meetings, Michael Baker can have the environmental project manager or project director attend meetings on a time and materials basis.

Task 5.6.3 Environmental Tasks Management

This task includes management associated with the administration of the project, including preparation of progress reports and invoices, update of schedules, and project setup/closeout. Michael Baker assumes project management and meetings would be conducted on a time and materials basis. As a preliminary estimate, 40 hours of meeting time is included.

Environmental Assumptions:

- Revisions to the Administrative Draft EIR/EIS and Screencheck Draft EIR/EIS will be made based upon one (1) round of consolidated comments from the lead agencies.
- CVAG will be responsible for providing and securing the meeting space for the Scoping Meeting.

Biological Resources Assumptions:

- Provided within the Biological Tasks.

Transportation Assumptions:

- Additional tasks (traffic operations analysis, traffic counts, conceptual striping layouts, designs, cost estimates, traffic modeling, public meetings and outreach, Planning Commission and City Council Hearings, etc.) are not included in this scope of work but can be accommodated for an additional fee and only if approved by the Client. Transportation services outlined within the proposal will be performed for a lump sum not-to-exceed fee to be billed monthly on a percent

complete basis.

Cultural Assumptions:

- No archaeological sites or built environment resources are located within the APE that require recordation or evaluation to the National Register of Historic Places or California Register of Historical Resources
- An HRER will not be required. Bridge 56C0073 or any road segments will not require evaluation to the National or California Registers.
- The field survey will take two archaeologists one day to complete.
- If archaeological resources or historic properties are identified within the APE additional studies may be required.
- No monitoring is required at this time.

AQ/GHG/Energy/Noise Assumptions:

- Engineering plans, including limits of construction, staging areas, and borrow/disposal sites, if needed, will be provided by Michael Baker International at a level of detail sufficient for preparing the technical studies (roadway lanes, topographic information [including changes in topography resulting from the proposed project], station numbers, and existing structures within 500 feet of the proposed project).
- Aerial photograph at a scale suitable for preparation of project mapping, figures, and analyses (1 inch=200 feet scale minimum, with a minimum of 500 feet shown around any areas of improvement). Pixel size shall be no more than 2.5 square feet and image shall be orthorectified.
- Traffic information shall contain 24-hour and hourly traffic counts separated by direction and vehicle classification (autos, medium trucks, heavy trucks) over at least three weekdays, along with AM/PM peak hour and average daily traffic (ADT) forecast traffic volumes for the existing/baseline condition, as well as the opening year and horizon year build and no-build conditions for roadways affected by the proposed project. In addition, traffic information shall include posted speeds and average travel speeds for identified project alternatives. Regional vehicle miles traveled (VMT) apportioned into 5-mph speed bins shall be provided for the baseline/existing condition, as well as the opening year build and no-build conditions. The "regional VMT evaluation area" must be large enough to capture the project's traffic redistribution effects.
- AQ/GHG/Energy/Noise technical staff will not be in attendance at public meetings/hearings.
- CADD files shall be provided in a known coordinate system or projection and attributes shall be provided on discrete layers so that this information can be utilized in GIS.

Task 6.0 - Roadway Preliminary Engineering

Task 6.1 - Roadway Geometrical Approval Drawings (30% Plans)

Michael Baker will develop a conceptual level (30%) street plan and profile showing the proposed roadway section and proposed profile at the new curb and gutter. This will also set the stage for the various structures, and how they will relate to the roadway design. Focus areas at the 30% design stage will be right-of-way impacts, striping proposal, and impacts to private improvements within the future right-of-way or impacted by the construction of the project. 30% plans will include aerial topography, right-of-way (existing

and proposed), utilities, bike lanes, typical cross sections and a plan and profile view.

Deliverables: 30% Complete Plans, Preliminary Right-of-Way Requirements Map

Final Plans, Specifications and Estimates

Task 6.2 – 60% Roadway Plans, Specifications and Estimates

Upon review of the Preliminary Geometric Approval Drawings, Michael Baker will incorporate any comments or changes that are requested as a part of the review process. The plans will include title cover sheet, demolition plan, typical sections, details, improvement layout, profile, superelevation, cross sections, erosion control plans and Water Quality Management Plan.

MBI shall prepare signing and striping plans showing the affected construction area and all affected traffic stripes and signage in accordance with CA MUTCD and the Local Agency’s requirements. The plans shall show the location of all proposed traffic stripes, markings, and the proper disposition of all affected existing signs and markings.

Plans will be prepared at 1”=40’ scale unless specific detail is needed, then an alternative scale may be used. Specifications for the project shall be written using either “Greenbook” or Caltrans Standard Specifications, or a combination thereof. Michael Baker will prepare special provisions for the proposed roadway work. Cost estimates will also be prepared and provided in a tabular format.

Anticipated sheets/sheet counts:

Plan /Document Type	INCN7 – N. Indian Canyon Dr.		VRNR2 – Varner Road	DPLM5 – Date Palm Drive
	A	B		
Title Sheet	1			
Key Map	1		1	
Design Cross Sections	1	3	1	1
Street Improvements Plan and Profile	2	5	1	1
Construction Details	1	2	1	1
Grading	2	5	1	1
Erosion Control Plans	2	5	1	1
Scour & Grade Control Structure	1	2	1	1
Signing & Striping Plans	1	3	1	1

Deliverables: 60% Plans, Specifications and Estimates

Task 6.3 – 95% Roadway Plans, Specifications and Estimates

Comments from the 60% roadway design submittal shall be reviewed and resolved. A meeting after the 60% comments have been received and reviewed will be convened with CVAG and Michael Baker to clarify any comments or design issues. The design team shall incorporate CVAG’s comments into the 95% PS&E.

The specifications shall be detailed out to include method of measurement and payment for each item of work. Quantity Calculations and construction cost estimates shall be revised based on the revisions, with appropriate contingencies as directed by CVAG. At the 95% completion level, the PS&E shall be considered substantially complete and ready for bid.

Deliverables: 95% Plans, Specifications and Estimates

Task 6.4 – Final Contract Bid Documents

The design team shall incorporate CVAG’s review comments of the 95% Roadway PS&E. Should a meeting be necessary to discuss comments, Michael Baker will facilitate one. The final plans shall be prepared and plotted on Mylar. Specification documents, including technical specifications shall be provided electronically to CVAG in both MS Word format as well as in PDF. The Engineer’s estimate shall be provided in both MS Excel and PDF formats.

Deliverables: 100% Plans, Specifications and Estimates

Task 7.0 Traffic Control

Task 7.1 – Traffic Control Plans

MBI shall provide construction traffic handling, including traffic control plans for the roadways affected by the project construction. Base plans are prepared at 1”=40’ and are field-reviewed for accuracy. Each plan shall typically show the existing roadway configuration within the limits of work, plus sections beyond the limits where lanes will transition. Locations of advance warning signs are shown schematically. The design, legend, and location of all work area signs, barricades, and necessary additional traffic controls are designated and placed on the plan sheets. General notes applying to construction traffic control, a plan legend, and plan border information are placed on each project sheet.

Should closure be the proposed methodology to construct the project, Traffic Control plans will include appropriate tables for signage, PCMS messaging and a narrative of the detour description in order to meet the requirements of Caltrans for work along the freeway.

Deliverables: 60% Traffic Control Plans; 95% Traffic Control Plans; 100% Traffic Control Plans

Task 8.0 – Structural Calculations and Structural Plans, Specifications and Estimates (PS&E)

Baseline structure locations and structure types: The structures effort for calculations and PS&E development is based on the following baseline structures at each location:

- INCN7-A – N. Indian Canyon Dr.: Three (3) cells, 5-ft high x 25-ft wide prefabricated arch structures supported on a spread footing or concrete pile cap on drilled piles. The foundation elevation is controlled and protected by scour countermeasures such as concrete lining, rip-rap, or other scour protection measures.
- INCN7-B – N. Indian Canyon Dr.: Nine (9) cells, 8'-7"-ft high x 49-ft wide prefabricated arch structures supported on a spread footing or concrete pile cap on drilled piles. The foundation elevation is controlled and protected by scour countermeasures such as concrete lining, rip-rap, or other scour protection measures.
- VRNR2 – Varner Road: One (1) cell, 5-ft high x 25-ft wide prefabricated arch structures supported on a spread footing or concrete pile cap on drilled piles. The foundation elevation is controlled and protected by scour countermeasures such as concrete lining, rip-rap, or other scour protection measures.
- DPLM5 – Date Palm Drive: Two (2) cells, CIP or Precast Caltrans Standard Plan 10' Wide x 8' High Box Culverts

The scope of work and design fee may need to be adjusted if a different structure alternative is selected for final design. Design for separate bike trail and emergency access structures are not included in this scope of work.

Task 8.1 - Bridge Type Selection.

Michael Baker will prepare a Bridge Type Selection Report (TSR) for considering two (2) structure alternatives for each of the baseline structure locations. The Structure Alternatives will include the baseline structure type and an alternative structure type consisting of a cast-in-place (CIP) or precast bridge alternative which may provide a cost benefit with increased span and reduced foundation locations. A single Bridge Type Selection report will be prepared including all four locations, and will present a feasible structure type and cost considering the existing information, bridge constraints, and proposed project improvements. Michael Baker will review the structure type proposed from previous studies and evaluate and confirm the preliminary structure length, width and type, structure depth, railing types, including temporary rails, types of footing supports, falsework, vertical and horizontal clearances and freeboard, location and slopes of cuts and fills, slope paving, approach slabs, and stage construction requirements. Baker will coordinate with the roadway engineer on roadway issues and document the critical assumptions controlling the design in the bridge TSR, including recommendations from the preliminary hydraulics report and preliminary foundation report.

The bridge TSR will include an estimated cost summary in accordance with guidelines set forth in Caltrans Memo to Designers 1-8 and Caltrans Office of Special Funded

Projects (OSFP) Information and Procedures Guide 3-2. The structure study will include a bridge General Plan and Foundation plan for each of two alternatives (four total sheets). The General Plan will present plan, elevation and cross-sectional views of the selected bridge type. The Bridge Type Selection Report will be submitted to the Client for review and authorization to begin final design of the bridge

Deliverables in PDF format:

- Type Selection Report
- General Plan
- Cost Estimate

Task 8.2 - 60% PS&E

Upon receipt of the Client’s written approval of the selected bridge type, Consultant will prepare the 65 percent plans (unchecked details). The level of effort for this sub-task is based on the Baseline structure locations and structure types described in this task. A set of draft plans (unchecked details) will be prepared in Autocad in accordance with the applicable provisions of the following Caltrans manuals:

- Caltrans Bridge Design Details;
- Caltrans Plans Preparation Manual; and
- Caltrans Plans, Specifications, and Estimates (PS&E) Guide

Structure calculations will be by a California-registered civil engineer in accordance with the applicable provisions of the following manuals. A complete bound set of design calculations will be prepared and submitted to the Client for review.

- AASHTO Load and Resistance Factor Design (LRFD) Bridge Design Specifications (BDS) with Caltrans Amendments;
- Caltrans Seismic Design Criteria (SDC);
- Caltrans Structure Technical Policy
- Caltrans Bridge Memos to Designers; and
- Caltrans Bridge Design Aids;

The following bridge plan sheets are anticipated:

Sheet Description	INCN7 (A & B) – N. Indian Canyon Dr.	VRNR2 – Varner Road	DPLM5 – Date Palm Drive
General Plan	2	1	--
Typical Section	2	--	--
Index to Plan Sheet	2	1	--
Foundation Plan & Notes	4	1	--
Structural Details	2	1	5
Headwall Details	4	2	--
Total Sheets:	27		

Our subconsultant Contech will prepare additional structural detail sheets for the CON/SPAN O-series Precast arch and/or Structural Plate Structures at INCN7 and VRNR2, or the structural arch sheets will be a deferred submittal item to be prepared by the contractor after award. Contech will also prepare structural details sheets for precast wingwalls and headwalls at INCN7 and VRNR2 precast arch locations.

Assumptions: This scope does not include effort for design or plans related to retaining walls, which are not anticipated based on the preliminary designs identified in the Flood & Blowsand Risk Assessment and Improvement Plan for Western Coachella Valley.

Deliverables:

- Unchecked Structural Design Calculations
- Plans (Unchecked Details)

Task 8.3 – Structures Quality Control

A California-registered Michael Baker civil engineer who is not directly involved in the initial design of the structure will provide a quality review of the structure plans, specifications, estimate, and calculations following the Michael Baker Quality Management Plan (QMP), or a project-specific QMP.

The level of effort for this sub-task is based on the Baseline structure locations and structure types described for this task.

Task 8.4 - 95 % PS&E

Michael Baker shall prepare 95% PS&E for review and approval of the Client. The 95% PS&E shall include 60% PS&E updated in response to comments from the Client and the bridge independent check.

The Special Provisions for the roadway and bridge will be based upon Caltrans Standard Special Provisions (SSP's). Consultant will prepare technical Special Provisions for bidding to be included by the client in their bid documents. It is understood the Client will incorporate the Caltrans Standard Specifications and project SSP's into their bid documents (i.e. Notice to Contractors, Instructions to Bidders, Contractor Forms, etc.) and coordinate the specifications with any other non-bridge bid items.

Michael Baker will prepare itemized quantity take-off calculations and a construction cost estimate for the bridge and roadway construction.

Deliverables:

- Plans
- Bridge Design Calculations
- Independent Check Design Calculations
- Draft Special Provisions
- Itemized Cost Estimates

Task 8.5 - 100% PS&E

Following the reviews by the Client, agreed-upon revisions shall be made to the 95% PS&E. The specifications, half-size plans, and other bid documents will be submitted to the Client for final approval.

Deliverables in PDF Format:

- Half-size set of Plans
- Final Special Provisions
- Itemized Cost Estimate

Task 8.6 - Final PS&E

After receipt of final approval, an original set of stamped and signed plans and an engineer's estimate will be submitted to the Client for its use in developing bid documents and soliciting construction bids. The Consultant shall provide the quantity calculations to the Client for use in administering the contract. Once the final plans have been submitted and approved by the Client, specific sheets will be sent to the Client for approval and inclusion in the permanent encroachment permit.

Deliverables in PDF Format:

- Structure Plans stamped and signed and stamped
- Technical Special Provisions
- Engineer's Estimate

Task 9.0 Utilities

Task 9.1 Utility Coordination

Monument's Utility Coordinator will be responsible for coordinating the identification, relocation, protection, and abandonment of all utilities required by the Project. Sixteen utility owners have been identified by DigAlert as possibly having facilities present in the project area and will have to be addressed:

- | | |
|---|---|
| ■ AES Wind Generation | ■ Southern California Edison - Telecom |
| ■ City of Cathedral City | ■ Southern California Edison - Transmission |
| ■ City of Palm Springs | ■ Southern California Gas - Distribution |
| ■ Coachella Valley Water District | ■ Southern California Gas - Transmission |
| ■ Desert Water Agency | ■ Spectrum |
| ■ Frontier | ■ Sprint |
| ■ Kinder Morgan | |
| ■ Level 3 | |
| ■ MCI (Verizon Business) | |
| ■ Southern California Edison - Distribution | |

Monument's utility coordination activities include the following:

- Monument will act as the primary point of contact with the utility owners identified on the utility plans.
- Actively participate in PDT / utility focus meetings.
- Prepare the Introductory Request for as-builts notices and obtain all existing utility information, including identification of high-risk utilities (high pressure gas, high voltage, etc.) from the County,, utility companies, and agencies that may be impacted by the Project.
- Review and verify with the design team which facilities are considered

in conflict.

- Coordinate with the design team with the preparation of the conflict matrix and conflict exhibits needed for each utility company whose facilities are in conflict.
- Meeting with utility companies and other entities to determine their requirements for relocation, protection, and abandonment requirements of utilities required to accommodate the Project and to establish any potential ROW acquisition or easement requirements for utility relocations.
- Prepare and send the Relocation Claim Letter to utility owners who have facilities in conflict.
- Determine liability for the conflict facilities impacting the project.
- Obtain detailed relocation plans from utility owners.
- Prepare notices to owners, Utility Agreements, Reports of Investigation, Encroachment Permits and all other applicable documents.
- Coordinating the relocation of utilities that CVAG directs to be done prior to Project's construction and during Project's construction. Assisting in utility portion of the Caltrans ROW Certification

Prior to construction, Monument's Utility Coordinator will work with the design engineers to and coordinate with utility companies to ensure the relocations are done to meet the Project's schedule. During construction, the Utility Coordinator monitor utility relocation work and meet regularly with design engineers, utility companies, Caltrans, CVAG and other parties to coordinate and ensure that utility relocation work is being done to meet the Project's schedule.

Task 9.2 Utility Potholing

Monument will coordinate the potholing services to determine horizontal and vertical locations of underground utility facilities in accordance with Caltrans' High Low Risk Policies and Procedures. Monument will work with Project engineers, survey, positive utility location company and utility companies to perform potholing to verify underground utilities. Monument and the positive utility location company anticipate that additional potholes could be required due to unforeseen concerns. Monument's utility coordinator will provide coordination and oversight of positive location of the utility facilities. If the utility owner is conducting the required positive location, Monument will provide required notice to the utility owner and assist in getting any required permits.

Utility and Pothole Assumptions:

- Assumes the project will pay for as-built plans or special processing fees if required by the utility owner.
- Assumes 7 utility facilities will be in conflict. Preparation of Notices to Owners to coincide with 7 facilities in conflict.
- Assumes 1 utility agreement will be needed.
- Assumes an estimate of \$1,500 per pothole. Includes permit fees, standard traffic management, mobilization costs and required equipment and crew for pothole subcontractor.
- Assumes one mobilization for potholing.
- Assumes no engineered stamped traffic plans are needed.

- Assumes survey is not included in the price per pothole and will be provided by design.
- Assumes project engineer will identify pothole locations.
- Assumes additional potholes will be authorized by project engineer.
- Assumes no complex traffic control and traffic calming devices beyond the use of arrow boards, traffic cones and advanced warning signage.
- Assumes no removal of location and/or USA markings
- Assumes no special backfill and/or asphalt restoration required. (examples - hot patch asphalt, half-sack slurry, aggregate base backfill.)
- Assumes no ground penetrating radar services required but this can be provided for an additional fee.
- Assumes project engineer will update utility base plan based on information provided from utility companies.
- Assumes project engineering firm will identify/highlight/cloud conflicts to show the utility companies and prepare conflict maps and matrix if needed.
- Assumes project engineer shall provide a Composite Utility Plan exhibiting all existing utilities within the proposed construction area and all utilities affected by the proposed project.
- Assumes project engineer will identify all utility poles and be depicted on the plans including all structure numbers.
- Assumes project engineer will provide utility companies with their required Cad files.
- Assumes that the design for new and relocated utilities will be performed by the respective utility owners.
- Assumes inspection of utility relocation construction, including as necessary as-built survey will be done by others.
- Assumes project engineering firm will review and approve all utility relocation plans.
- Assumes all utility services meters are acquisition costs and not public utilities, and utility companies will replace the new service to their requirements.
- Assumes all costs and negotiation efforts associated with the need for utility replacement easements or any additional property rights for the utility owner are not included with in the utility coordination scope and fee.
- Assumes project engineer will provide application and processing services to obtain City meter addresses for any new utility services.
- Assumes project engineer will ensure meter relocation work is identified and specified in the contract documents.
- Assumes any traffic signal, intersection and street lighting are a part of the engineer's electrical design plan and not a utility.
- Assumes scope does not include any fees associated with the actual relocation of the utility facilities and/or construction management/inspection.
- Assumes project will be completed after 18 months from NTP. Should any delays occur to the completion date, Monument may require a change order for additional services.

Task 10.0 Geotechnical (Earth Mechanics)

Based on the RFP and our discussion with Michael Baker International (MBI), Earth Mechanics, Inc. (EMI) will provide the geotechnical engineering design services for the following design elements:

1. INCN7-A: Approximately 100 feet long 3-span con/span o-series bridge system (substructure width of each support is less than 100 feet) and approximately 1,440 feet long roadway improvements;
2. INCN7-B: Approximately 473 feet long 9-span con/span o-series bridge system (substructure width of each support is less than 100 feet) and approximately 2,440 feet long roadway improvements;
3. VRNR2: Approximately 25 feet long single-span bridge system (substructure width of each support is less than 100 feet) and approximately 595 feet long roadway improvements; and
4. Date Palm Drive: Approximately 75 feet long 10'x8' double box culvert.

Details of our proposed geotechnical services for the project are presented below.

Task 10.1 Preliminary Foundation Report

EMI will prepare a Preliminary Foundation Report (PFR) to provide preliminary geotechnical recommendations for all the structures described above, and this report will assist structural designers in the Type Selection process. This PFR will be prepared using the available subsurface data and the general format will be in accordance with the current Caltrans Guidelines.

Task 10.2 Geotechnical Investigation

Caltrans is enforcing the AASHTO recommendations of a soil boring at each bridge support locations where substructure width is less than 100 feet; minimum of two borings are required per location where substructure width is greater than 100 feet. Based on this, EMI's geotechnical field investigations plan is presented in Table 1. The proposed approximate boring depths will be raised if refusal is encountered. Data obtained from some boreholes will be used for multiple design elements.

The boreholes will be excavated using a truck-mounted or track-mounted drilling rig. Asphalt concrete cold-patch will be used to replace asphalt that is removed by excavations, and quick-set cement will be used to replace concrete that is removed by excavations.

Proposed Soil Boring Information

Design Element	Number of Borings	Approx. Depth (feet)
INCN7-A	4	70
	2	20
INCN7-B	10	70
	4	30
VRNR2	2	70
Date Palm Drive	2	50

EMI will prepare a boring location plan, and this plan will be used to secure encroachment permits from Cities of Palm Springs and Cathedral City. Encroachment permits in the wash will be secured by the MBI environmental team.

EMI field personnel will collect soil samples for laboratory testing, including bulk samples of near-surface soils and small disturbed and relatively undisturbed ring samples of deeper soils. The small disturbed and relatively undisturbed soil samples will be collected using split-spoon samplers at a vertical interval of about 5 feet, alternating between the Standard Penetration Test (SPT) sampler and the Modified California Drive (MCD) sampler. Samples of subsurface soils will be logged during the field investigation, secured in their containers or collected in plastic bags, and transported to the EMI laboratory.

We will obtain thirty-six (36) representative soil specimens for scour study (nine samples at each bridge): three at 1,000' upstream of each bridge, three at each bridge location, and three at 1,000' downstream of each bridge. Specimen will be collected using a shovel at a depth of about 1 to 2 feet below the channel bottom.

Task 10.3 Laboratory Testing

Field logs of the boreholes will be reviewed to select representative soil samples for laboratory testing. Various laboratory tests will be performed on soil samples to determine or derive their physical and engineering characteristics. Anticipated laboratory tests include: in-situ density and moisture content, grain size, direct shear, UU triaxial, consolidation, R-value, and soil corrosion tests. Laboratory tests will be conducted in general accordance with American Society for Testing and Materials (ASTM) standards or California Test methods.

Task 10.4 Geotechnical Engineering Analyses

Results obtained from the field investigation and laboratory testing will be used to characterize subsurface soils and conditions and create idealized soil profiles for design purpose. The following analyses will be performed for the project:

- Evaluation of seismicity and estimation of Peak Ground Acceleration based on the Caltrans design criteria, and recommendation of ARS curves for bridge structural design.

- Assessment of soil liquefaction potential, seismic settlement, and lateral spreading.
- Foundation analysis for bridges and 10'x8' double box culvert.
- Assessment of global slope stability.
- Evaluation of soil corrosivity conditions and recommendations for mitigation measures.
- Design of pavement structural section in accordance with the Caltrans method.

REPORT PREPARATION

EMI will prepare a Geotechnical Report to provide the geotechnical design and construction recommendations for bridges, 10'x8' double box culvert, embankments, and pavement structural sections. EMI will address any comments resulting from the Coachella Valley Association of Governments (CVAG) review and prepare a final Geotechnical Report.

Task 11.0 - Post Design Services

Task 11.1 Services during Bidding

The Client will complete the bid documents, advertise the project for bidding and distribute the plans to prospective bidders. The Client's project coordinator will be the designated person to receive contractor inquiries. Michael Baker's project manager and project staff will assist the Client as requested during the bidding. The work may include answering questions, providing consultation and interpretation of the construction documents, and assisting the Client in preparation of addenda to the PS&E during the

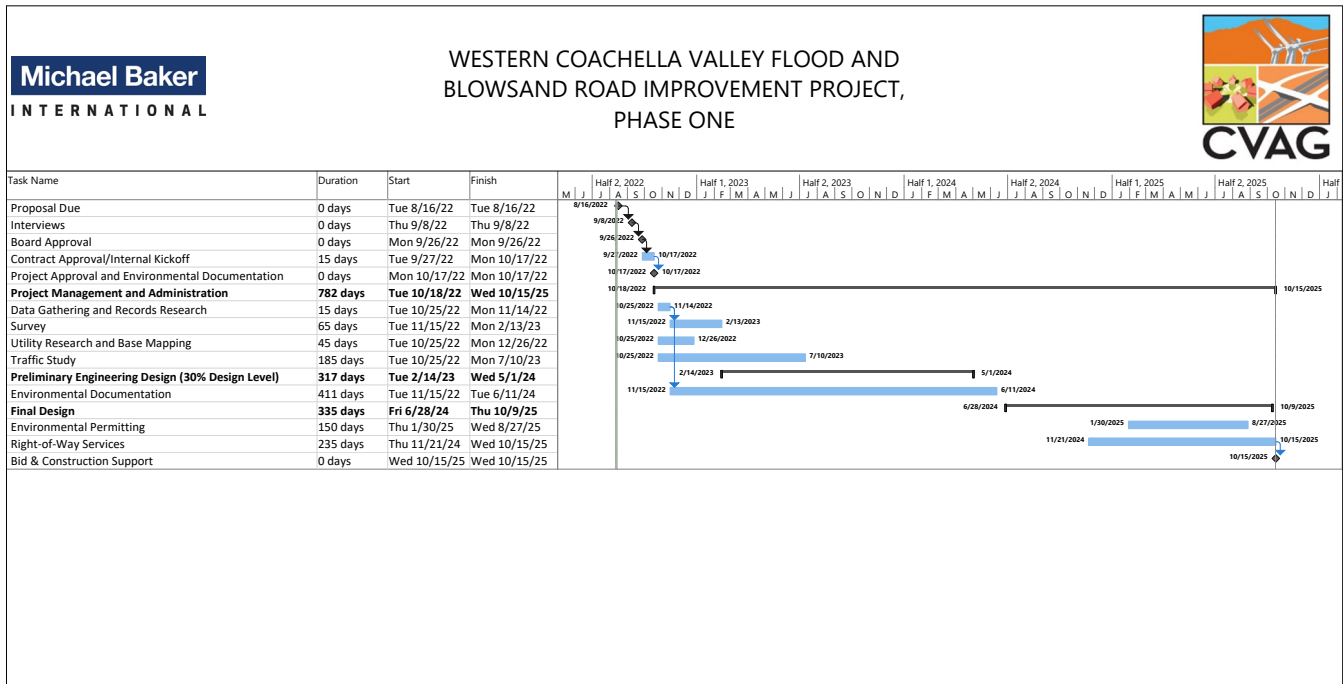
advertisement period. Attending pre-construction meetings or bid opening and analysis of bids will also be provided.

Task 11.2 Construction Services

Michael Baker's project manager and project staff will be available to assist the Client during construction. A budget amount has been prepared to provide a minimal amount of construction services. This budget may require adjustment depending on the level of Consultant involvement requested during construction. Upon written request by the Client, the Consultant shall provide the following construction support services.

- Prepare a Resident Engineer's Pending File consisting of information including 40-scale drawing and special instructions critical to the proper construction of the project.
- Review shop drawings for general conformance to design intent as shown on the Project plans. Review of rebar shop drawings, material specifications and concrete mix designs will be the responsibility of Resident Engineer and is excluded from Michael Baker scope of work for construction support.
- Assist the Client during construction by responding to Request for Information (RFI), clarifying drawings, and generally assisting the Client to ensure that the project is constructed in accordance with the plans and specifications.
- Perform up to 3 site visits during construction as requested by the Client.
- Provide advice and technical support for construction change orders.

2.3.4 Schedule and Deadlines



SECTION 3

EXCEPTIONS/DEVIATIONS



3.0 EXCEPTIONS/DEVIATIONS

3.1 CONTRACTING WITH MICHAEL BAKER

We appreciate the opportunity to preview the consultant services agreement that will be utilized by the Coachella Valley Association of Governments for the Western Coachella Valley Flood and Blowsand Road Improvement Project. Michael Baker has contracted on thousands of projects over our 82-year history, including with CVAG, and is confident in our ability to come to mutually acceptable terms with all of our clientele. Upon selection of this proposal, and as permitted by Section 3 (Exceptions/Deviations) in the RFP instructions, we would respectfully request consideration of the following comments to certain of the contract terms, due to the professional standard of care required for performance of services, insurance commercially available, terms which can be outside the contracting parties control, and professional experience. Article I (Introduction), Section C – we will be responsible for any errors or negligence on our part, but do not wish to be held financially responsible for the actions of parties outside our control (such as our client). Additionally, we believe it important that the indemnity clause can be insured by all types of insurance, including professional liability insurance. Therefore, modification of this clause is requested as follows to provide a reasonable and insurable standard:

- “CONSULTANT shall indemnify, CVAG, its officers, officials, employees and volunteers from and against all liability, loss, damage, expense, cost (including without limitation reasonable attorneys fees, expert fees and all other costs and fees of litigation) to the extent arising out of or in connection with CONSULTANT’s negligence, recklessness or willful misconduct in the performance of work hereunder or its failure to comply with any of its material obligations contained in this AGREEMENT, except such loss or damage which is caused by the negligence or willful misconduct of the CVAG (meaning that CONSULTANT shall indemnify CVAG except to the extent of any negligence or misconduct of CVAG which may have contributed to the claims, damages, costs or liability). CONSULTANT shall reimburse the CVAG its costs of defense, including without limitation reasonable attorneys fees, expert fees and all other costs and fees of litigation. The CONSULTANT shall promptly pay any final judgment rendered against the CVAG (and its officers, officials, employees and volunteers) with respect to claims determined by a trier of fact to have been the result of the CONSULTANT’s negligence, recklessness or willful misconduct. The terms of this section shall survive termination of this Agreement.”
- Subsection E – Because terms in this contract have been identified as being outside the control of the professional to effect, modification of the first sentence is requested by adding the term “material” before “provisions of this Agreement”.
- Article VI (Termination) – For the same reason as explained directly above, a similar change is requested by adding the term “material” before “covenants herein contained”.
- Article XXV (Insurance), Subsection G – To be consistent with the indemnification requirement, modification of the term “acts or omissions of CONSULTANT” is requested to state “negligent acts or omissions of CONSULTANT.”
- Article XXXIII (Legal Responsibilities) – Because laws at various agency levels can be in conflict with one another, insertion of the term “applicable” is requested before “State, Federal and local laws...” In the event of a conflict, the professional’s duty is to comply with the higher, or applicable law, rule, regulation or policy.
- Addition of a new Article XXXIV (Limitations of Liability) – Addition of the following three clauses is requested to address circumstances outside the contracting parties control:
 - “A. Waiver of Consequential Damages. Neither party shall have any claim or right against the other, whether in contract, warranty, tort (including negligence), strict liability or otherwise, for any special, indirect, incidental, or consequential damages of any kind or nature whatsoever, such as but not limited to loss of revenue, loss of profits on revenue, loss of customers or contracts, loss of use of equipment or loss of data, work interruption, increased cost of work or cost of any financing, howsoever caused, even if same were reasonably foreseeable.
 - B. Force Majeure. CONSULTANT shall not be liable for any failure to perform or any impairment to its performance to the extent such failure or impairment is caused by any act of God, fire, flood, natural catastrophe, labor dispute or strike or shortage, national or state emergency, epidemic or pandemic, insurrection, riot, act of terrorism, war, act of government, any action or inaction of LOCAL AGENCY or a third-party engaged by it, and/or any other event, occurrence or circumstance beyond the reasonable control of CONSULTANT. The compensation due CONSULTANT and the schedule governing the timing for CONSULTANT’s performance shall be equitably increased and extended, respectively, to address any such impacts to CONSULTANT’s performance upon mutual approval of the parties, such approval to not be unreasonably withheld, delayed or conditioned.

SECTION 4

APPENDICES





KEY PERSONNEL RESUMES



PROJECT MANAGER

Steven Latino, PE, TE



Latino's 18-year professional career has focused on providing services as a local municipal employee. This includes work in the areas of: Traffic and Transportation, Capital Improvement Projects (both design and construction management), and Land Development. Prior to private employment he served as the Engineering Director/City Engineer for the City of Hemet where he oversaw a department of 8 staff members. He was responsible for all aspects of municipal engineering during his tenure at the City of Hemet, including: the review and approval of public infrastructure plans, land development review, traffic and transportation related design and planning, as well as

CIP management and delivery.

Due to his extensive time served in the Public Sector, Mr. Latino is very knowledgeable of local regulations as well as working with various agencies including Coachella Valley Association of Governments (CVAG), Western Riverside Council of Governments (WRCOG), Riverside County Transportation Commission (RCTC), San Bernardino County Transportation Authority (SBCTA), and Caltrans. He is well versed in project delivery and the challenges projects face due to local, regional and statewide regulatory requirements. With his experience throughout the region, Mr. Latino is familiar with both Riverside and San Bernardino Counties. His ability to design and review plans includes intuition that can easily be overlooked by someone who may not have delivered a municipal project from start to finish. Additionally, he is very familiar with the assembly of construction specifications and bid packages and is well versed in the Greenbook: Standard Specifications for Public Works Construction as well as the Caltrans Standard Specifications.

Years with Michael Baker **1.5** Years experience **18** Availability for this project **60%**

RELEVANT EXPERIENCE

Palm Desert On-Call Services.

City of Palm Desert. Engineer. As Acting City Engineer, assisted the City of Palm Desert in the capacity of Acting City Engineer assisting their Public Works Department. In this role, he has been charged with the implementation of several Capital Improvement Projects, providing oversight on the CVAG's CV Link Project, and has developed "Dining Deck" guidelines for the City to implement. Regularly interacts and represents the city with the Public at large and attends meetings with the city's various committees and City Council.

Rancho Mirage On-Call Services.

City of Rancho Mirage. Engineer. As Acting Traffic Engineer, Mr. Latino provides oversight and assistance for various traffic related services in the City of Rancho Mirage. Typical work includes review of traffic control devices, assist with analysis and recommendations of various traffic concerns, as well as assist the Planning Department with the review and recommendations as it relates to new development.

Highway 111 Rehabilitation, Indian Wells, CA. *City of Indian Wells.*

Project Manager. Responsible for providing professional engineering design services for Highway 111 Pavement Rehabilitation through the City of Indian Wells. The almost 4-mile rehabilitation project includes geotechnical analysis of the existing roadway section to determine the most cost-effective rehabilitation methodology, improvements of existing surface drainage features, ADA ramp upgrades and replacement of traffic signal loop detection.

Warner Trail Improvement Project, Indian Wells, CA. *City of Indian Wells.*

Project Manager. Michael Baker is providing exploratory geotechnical services for the Warner Trail Improvement Project to address multiple failures and sinkholes that have developed above the existing storm drain facility in Warner Trail south of Fred Waring Drive. In addition, the team will be providing pavement rehabilitation for this segment, signal modifications to include a northbound right turn lane and ADA ramp improvements.

Michael Baker
INTERNATIONAL

Location

Palm Desert, CA

Education

- B.S., 1998, Civil Engineering, Purdue University

Licenses/Certifications

- Professional Engineer, California, 2006, 69470
- Traffic Engineer, California, 2007, 2418

Current Commitments/ On-Going Projects

- Indian Wells Club Drive Complete Streets - 10%
- Indian Wells Warner Trail Improvement Project - 15%
- Riverside County Transportation Department San Timoteo at Redlands Traffic Signal Project - 5%
- Apple Valley - Yucca Loma Safe Routes to School - 10%
- San Bernardino County - Commerce/ San Bernardino Pavement Rehab and ADA Ramps - 10%
- City of Indio - Jackson Street Clean California Grant Project - 10%

Michael Baker
INTERNATIONAL

Genevieve Street Lighting Circuit and Ralston Street Lighting Circuit, San Bernardino, CA. *City of San Bernardino. Project Manager.* Responsible for the design of two new street lighting circuits to replace existing high voltage circuits. The existing circuits have exceeded their service life, have existing street light standards that do not meet current standard and are currently non-functional. Mr. Latino is leading a team to replace the outdated infrastructure including new conduits, wiring, services and street light standards. The team will complete a lighting analysis and recommend spacing of new lights based on IES Standards. New street lighting will include energy efficient LED lighting.

San Bernardino Avenue/Commerce Drive, Fontana Area, CA. *County of San Bernardino. Task Manager.* Through the existing Michael Baker on-call contract for engineering services with the County of San Bernardino, Mr. Latino is leading a team through the design of pavement rehabilitation, 26 ADA ramps, along with ancillary concrete improvements along San Bernardino Avenue and Commerce Drive. The work will include traffic signal modifications at several locations to provide adequate ADA access.

Etiwanda TR-16072, Rancho Cucamonga, CA. *Richland Communities. Project Manager for the design of street lighting for a residential tract in the City of Rancho Cucamonga.* Work includes coordination with the City as well as MWD and other utility purveyors. Work includes in-tract and off-site street lighting.

State Street Gap Closure Project, San Bernardino CA. *City of San Bernardino. Project manager for roadway design and environmental clearance for the Street; a vital transportation corridor.* State Street will be a four-lane roadway with a center median and bike lanes connecting Baseline Street to State Route 210. The design includes a new roadway in the portion of the project where no transportation infrastructure exists, rehabilitating existing portions to updated standard, and ROW acquisition is required to complete the project.

Overland Bridge at Murrieta Creek, Temecula, CA. *City of Temecula. Project manager during the design of a bridge structure over Murrieta Creek connecting Avenida Alvarado at the intersection of Diaz to the west of the creek with Overland Drive.* Mr. Latino's team was responsible for all ancillary improvements to the design of the bridge including: street improvements, grading and drainage improvements, legals/plats, hydraulic/hydrology analysis, and water quality.

Riverside Drive Street Widening, Signal Modifications, Signing and Striping, Lake Elsinore, CA. *City of Lake Elsinore. Project Manager in the development of program documents and planning and design activities related to the reconstruction of an existing campground located along Riverside Drive on the westerly end of Lake Elsinore.* Steven coordinated completion of all CalTrans requirements to facilitate completion of the project.

Washington Street at Fred Waring Drive Triple Left Turn Lanes Project, La Quinta, CA. *City of La Quinta. Project Manager for the design of intersection modifications incorporating a third left turn lane in each direction to reduce peak hour traffic queuing.* Work included acquisition of property along the southwest corner, widening along all corners of the intersection, and design of all new traffic signal system. In order to meet time constraints for both funding and to avoid seasonal peak traffic considerations, the City ordered the poles in advance of the bid of the project. Mr. Latino's team performed utility potholing as well as coordination with the various utility companies to avoid potential conflict. To date, the poles have been installed with no utility conflict.

PROJECT PRINCIPAL

Christopher Alberts, PLS



Mr. Alberts has extensive years of combined experience in field surveying and office mapping. As Project Surveyor, he is responsible for survey support, calculations, coordination, and supervision of all field and office operations. Additionally, Mr. Alberts has broad knowledge of title research, map preparation including right-of-way documents and legal descriptions, tentative and final maps. His experience includes ALTA Surveys, boundary, topographic, subdivision, control, monitoring, 3D modeling and construction surveys. Mr. Alberts is experienced in using various types of surveying equipment, including GPS, reflectorless total stations, lasers, CAD

programs, computers and data collectors with surveying and construction and grading software on various platforms.

Years with Michael Baker	20	Years experience	28	Availability for this project	35%
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RELEVANT EXPERIENCE

Whitewater Channel Slope Protection, Coachella, California.

Coachella Valley Water District. Surveyor. Responsible for field surveying and office mapping operations to facilitate construction of two miles of channel lining and pond reconstruction for nine percolation ponds. Michael Baker provided civil design and surveying services for approximately 4,000 linear feet of canal lining. The work program included utility research and coordination, potholing, right-of-way mapping and plan preparation for the Coachella Valley Water District. Survey and mapping services included horizontal and vertical control, softcopy photogrammetry and existing right of way mapping. Under separate agreement, Michael Baker provided construction surveying services to the general contractor constructing the slope lining per plans and specifications.

Rancho Las Flores Park Master Plan - Phase 1, Coachella, California.

City of Coachella. Surveyor. Responsible for field surveys. Michael Baker provided professional landscape architecture and civil engineering services to the City of Coachella for the design and development of a community sports park. The 25-acre park included a major lighted soccer complex, football field, baseball and softball fields, playgrounds, picnic areas, splash fountain, restrooms, shade structures, a new public street, parking lot improvements,

landscaping, irrigation, and associated improvements. Services included the preparation of conceptual design alternatives, a two phased master plan, and final plans, specifications and estimates.

Interstate 10/Jefferson Street Interchange Improvements, Indio, California.

County of Riverside Transportation Department. Mapping Specialist. Responsible for mapping. Michael Baker performed environmental and engineering services for the preparation of the project report (PR), modified access report (MAR), and plans, specifications, and estimates for I-10/Jefferson Street interchange improvements. This project will balance several complex geometric constraints to eliminate the discontinuity of the arterial street through movements within the interchange. The interchange is included in the I-10 Corridor Plan, prepared by the Coachella Valley Association of Governments (CVAG), which requires specific architectural and landscape treatments to the improved or new interchanges located within the plan. The modifications include replacement and relocation of the Jefferson Street/I-10 overcrossing, additional loop on-ramps, and realignment of Varner Road and Jefferson Street. Michael Baker was responsible for alternatives analysis and design, environmental investigations, roadway design, traffic studies, drainage studies, and structure advance-planning studies. Working closely with



Location

Palm Desert, CA

Education

- Coursework, 0, General Studies, San Jacinto College
- Coursework, 0, General Studies, South Dakota State University

Licenses/Certifications

- Professional Land Surveyor, California, 2008, 8508

Current Commitments/ On-Going Projects

- City of Palm Desert | 35%
- Imperial County Public Works | 10%
- CV Link | 5%

Caltrans and the City of Indio, Michael Baker provided a wide range of environmental consulting services. Michael Baker prepared the following studies in support of a joint initial study-environmental assessment (IS/EA): Visual impact analysis (VIA); noise impact report, per TNAP; initial site assessment; natural environment study; report-biological assessment, HPSR/ASR/AER; air quality report and CO hotspot analysis; Section 7 consultation; and Section 106 compliance. In addition, Michael Baker developed the final plans, specifications, and estimates. Preparation of construction plans included roadway layouts and profiles, bridge plans, retaining walls, grading, drainage, signing and striping, traffic signal, lighting, and staged construction.

Interstate 10 / Monterey Avenue Interchange, Palm Desert, California. *City of Palm Desert.* **Survey Manager.** Responsible for field surveys. Michael Baker provided environmental planning, civil, structural engineering, and surveying services for the reconfiguration and improvement to the I-10/Monterey Interchange. The three-phase project included the preparation of a project study report-project report (Phase 1), environmental documentation for environmental clearance (Phase 2), and preparation of final design plans (Phase 3) for reconstruction of the westbound freeway ramps. The reconstruction and modification of the ramps was necessary to alleviate traffic congestion due to heavy volumes of traffic accessing the westbound freeway at this location. Project alternatives were reviewed to modify the existing diamond interchange, including loop on-ramps and hook ramps to the adjacent Varner Road. Near-term and long-range level-of-service analysis was performed at study intersections, ramp junctions, freeway mainline segments, and freeway weaving segments. The analysis was prepared with and without the planned Portola Avenue interchange. The study also identified forecast queuing demand and storage for each project alternative and included accident data analysis based on California Department of Transportation (Caltrans) TASAS data. Drainage and water quality improvements included inlets, pipe, outfall structures, and infiltration facilities for peak-flow attenuation. Swales and infiltration devices were used to treat water quality volumes. Michael Baker's landscape architecture group was responsible for the completion of landscape and irrigation plans, development and incorporation of themed structural aesthetics for proposed retaining walls and concrete barriers, and coordination for the inclusion of stormwater best management practice facilities. Landscape improvements completed the existing desert landscape scheme. Architectural aesthetics were based on an established natural theme outlined in a corridor master plan published by the Coachella Valley Association of Governments and creatively rendered for use on the proposed new walls. Plans met Caltrans design and drafting standards.

GPS Height Modernization - Survey Control Network, La Quinta, California. *City of La Quinta.* **Surveyor.** As project surveyor, in charge of field surveys to locate benchmarks in and around the city limits to be surveyed for the vertical network. The work included coordination of multiple survey crews to observe all existing and proposed benchmarks during the best use of satellite timing and positioning to obtain the required accuracy. Michael Baker provided professional surveying services to assist to the City of La Quinta with updating their survey control network. Michael Baker performed a control survey on the perimeter of the inclusive area and located and observed established NGS benchmarks. Following post-processing and establishment of the perimeter values, Michael Baker observed and processed interior points into the network. Multiple digital level runs were performed to augment the GPS observations. Survey values were post-processed and data sheets for each monument were prepared, including both horizontal and vertical values for each monument, along with a brief description of the point, a location based on cross-streets or distance, and a photograph of the locations.

GPS Height Modernization - Survey Control Network, Rancho Mirage, California. *City of Rancho Mirage.* **Surveyor.** As the Project Surveyor, was in charge of all field surveys to locate 57 existing and proposed benchmarks in and around the city limits to be surveyed for the City's Vertical Network using specifications from N.G.S. The work included coordination of multiple survey crews together with satellite timing to observe the benchmarks with GPS at optimal locations and supplement the observations with digital level differentials to augment the data. Michael Baker provided professional surveying services to assist city in updating its survey control network. Services included a control survey on the perimeter of the inclusive area, and locating and observing established National Geodetic Survey benchmarks. Following the post-processing and establishment of the perimeter values, Michael Baker observed interior points and processed them into the network. Michael Baker performed multiple digital level runs to augment the global positioning system. The network included 60 benchmarks. Michael Baker post-processed survey values and prepared data sheets for each monument, showing horizontal and vertical values for each monument with a brief description of the point, a location based on cross-streets or distance, and a photograph of the location. Michael Baker provided all datasheets in a digital PDF format for distribution and convenient integration to a web-based environment, along with a Google Earth KML file of the datasheets.

Eisenhower Medical Center - Utility Modeling, Rancho Mirage, California. *Turner Construction Company.* **Project Manager.** Responsible for project management. Michael Baker provided data gathering and modeling services to determine, map, expose, relocate, and rebury utilities for the Eisenhower Medical Center. Michael Baker proposed the use of a database logging system to record utilities and developed a matrix and plan sheets for the utility type, material, and size. Michael Baker compiled the existing utilities into one Autocad Civil 3D drawing, modeled the proposed utilities, combined all models to produce a full three dimensional model, and performed conflict analysis to resolve location discrepancies.

Q A / Q C

Tanya Bilezikjian, PE, CGP



Ms. Bilezikjian is a strategic manager, who is an established leader in the engineering consulting industry and has managed multiple Stormwater and National Pollutant Discharge Elimination System (NPDES) contracts throughout Southern California. She is decisive, result-focused and has an exceptional talent to lead cross-functional teams to identify program needs, assess resources, and collaborate with Team personnel ensuring projects are delivered on time, on scope, and within budget. She has direct experience supporting large regional clients with program development and execution, agency negotiations, and development of innovative solutions to promote

cost savings. She has the innate ability to link every task performed to specific program goals, thereby ensuring time and effort of teams are effective and valuable at supporting program objectives. Her experience managing large programs, representing client's interests, planning and executing multi-million-dollar contracts and task orders, will support a structured approach to program management that will increase efficiency in program delivery and save time, capital, and resources.

Years with
Michael Baker **17**

Years
experience **21**

Availability
for this project **25%**

RELEVANT EXPERIENCE

Southern California Edison (SCE) – Multiple Environmental On-Call Contractors, Throughout SCE Service Area, California.

Southern California Edison Company. Contract Manager. Contract manager for multiple on-call contracts with Southern California Edison's (SCE) Corporate Environmental Services Division. In this role, she has provided policy level support, program development, agency negotiation and permit development, training, and field assistance to SCE. The internal stormwater program included development of a Corporate Stormwater Policy document, implementation guidance to SCE's Organizational Units, and creation of unique stormwater management plans for each of its over 75 major fixed facilities. In addition, has provided coordination services for facility environmental plans, including spill prevention control and countermeasure (SPCC) plans, WQMPs, hazardous materials business plans, stormwater management plans, and stormwater pollution prevention plans (SWPPP). She has participated permit reviews of and agency negotiations on multiple state and regional board NPDES permits, including the Construction General Permit,

San Onofre Nuclear Generating Station, Pebble Beach Desalination Plant, Eastwood Powerhouse, and the Utility Vault NPDES Permit; created and delivered training on construction site BMPs, SWPPPs, and permitting; created a training program for the Corporate Real Estate Business Unit's Leased Facility program that focused on regional board agricultural waivers; assisted with NPDES permitting and reporting, groundwater sampling, spill response, Small Linear Underground/Overhead Permit and Utility Vault Permit implementation and compliance, erosion and sediment control plans, facility construction inspections, BMP contractor management, bid meetings, dewatering permitting and design, burned area evaluations, Low Threat Discharge Permit implementation, and pollution prevention plan development; developed and implemented SWPPPs for both linear and traditional construction sites; and provided extensive agency coordination activities. Michael Baker developed a stormwater management plan (SWMP) to address stormwater discharges and best management practices (BMP) from its industrial-type facilities, including power generation facilities, substations, service centers, and warehouse and material distribution centers. (January 2005 – present)

Michael Baker
INTERNATIONAL

Location

Palm Desert, CA

Education

- M.S., 2001, Civil Engineering/ Environmental, University of California, Irvine
- B.S., 1999, Chemical Engineering, University of California, Irvine

Licenses/Certifications

- Construction General Permit Trainer of Record, California, 2010
- Professional Engineer - Civil, California, 2008, 72119

Current Commitments/ On-Going Projects

- Project Commitments | 25%
- Management Commitments | 50%

Michael Baker
INTERNATIONAL

BMP Selection and Design, California. *Southern California Edison and Others.* **Project Manager/Designer.** Provided BMP selection and design services for multiple projects, including highway, roadway, residential, industrial, and municipal facilities. BMP selection includes evaluation of BMP effectiveness, land use, potential pollutants, BMP installation and maintenance cost, hydrology, facility size and location, and client preference. 2006 – 2011.

Facility Pollution Prevention Plan Development, Southern California. *Caltrans.* **Project Manager.** Providing Facility Pollution Prevention development services to Caltrans for its Southern California Districts. Each FPPP will include site evaluation, discussion of BMPs including source control and treatment control, facility maintenance, BMP maintenance, and mapping. Leading a team of engineers in preparation of these plans, and is responsible for coordinating with the client and the various facility managers, field inspection scheduling, rapid product deliverables, and QA/QC of all plans. 2011 – Present.

Chino Air Operations, Chino, California. *Southern California Edison.* **Project Manager.** Provided SWPPP implementation and construction oversight for the SCE Chino Air Operations project, located at the Chino Municipal Airport. Tasks include SWPPP updates, periodic inspections, storm event inspections, BMP implementation and client coordination. Wrote the SWPPP for this project, and manages the SWPPP amendment process. 2009 – 2011.

Caltrans - District Assistance (Contract No. 43A0176), Southern California, Caltrans. **Task Manager.** Receives assistance requests from all Southern California Caltrans Districts. Assistance requests may be for any NPDES-related issue. Issues from past requests have included dewatering permit applications, Notice of Violation response, and construction inspection at major highway projects. Each request includes a site visit, appropriate assistance to resolve the issue, and a final report to the appropriate District NPDES Coordinator.

Dewatering Discharge and Dilution Study (Contract No. 43A0182), San Francisco, California, Caltrans. **Technical Lead.** Caltrans was directed to conduct a dilution study in the Devil's Slide Discharge Permit to show that a dilution credit was appropriate for determining compliance with discharge limitations. Responsible for designing the dilution study and coordinating both the sampling effort and modeling effort. 2006.

ASSISTANT PROJECT MANAGER

Kevin Perko, PE, ENV SP



Mr. Perko's more than 35 years of extensive technical knowledge and experience in roadway, drainage, site civil, utilities, and floodplain analyses. Kevin focuses on quality, managing projects from the initial acquisition phase through permitting, construction supervision, and successful completion within budget and on schedule. His specialized water resources experience includes hydrology, open channel and pipe hydraulics, riverine hydraulics, stream geomorphology, storm water quality, retention/detention design, resource management, bridge scour analysis, Bridge Hydraulics Reports, erosion and sediment control, Storm Water Pollution Prevention

Plan (SWPPP) preparation, FEMA Map revisions (CLOMR, LOMR, LOMA), municipal and private storm sewer system analysis and design, drainage connection permits, Section 404 permits, bank stabilization and shoreline protection design. He conducts hydrologic and hydraulic analyses using models such as HEC-HMS, StormCAD, Basin Runoff Networking, Advanced Interconnected Pond Routing, Geopak Drainage, StormCAD, NRCS TR-55, and HEC-RAS. He has performed storm water master planning, collection and conveyance, and water quality treatment design for commercial, institutional, industrial, municipal, and private entities in Arizona, Florida, Utah and North Dakota.

Years with
Michael Baker **1**

Years
experience **36**

Availability
for this project **70%**

RELEVANT EXPERIENCE

Canyon River Ranch – Town Bridge Crossing. *Town of Payson. Quality Control Reviewer.* Scope of work included a detailed review of the bridge crossing and scour protection design for the shallow abutment foundation structure. Included a detailed recommendations for abutment setback and proposed local and general scour protection.

Pusch View Lane Bridge over the Rooney Wash. *Town of Oro Valley. Project Engineer.* Responsible for the bridge hydraulics report and abutment scour analysis for a new ConArch crossing including upstream and downstream bank protection design.

SR 520 Bridge Replacement over the St Johns River (Orange County, Florida). *Florida Department of Transportation, District 5. Project Engineer.* Responsible for the preparation of the bridge hydraulics report and bridge scour analysis, establishment of foundation and abutment protection, and design of upstream guide banks.

SR 520 Bridge Replacements over the Banana River (Brevard County, Florida). *Florida Department of Transportation, District 5. Project Engineer.* Responsible for the preparation of the bridge hydraulics

report and bridge scour analysis for the dual, parallel 1,000-foot long structures and a single 100-foot long relief structure, establishment of foundation and abutment protection for both structures, and the design of over one mile of gabion basket revetment armoring with wetland mitigation. Shoreline armoring design included a wave height analysis for the three mile long fetch length tidal water body. Project was part of the overall six-lane widening of the causeway.

SR 64 Bridge Replacement over Wares Creek (Manatee County, Florida). *Florida Department of Transportation, District 1. Project Engineer.* Responsible for the preparation of the bridge hydraulics report and bridge scour analysis for the tidal crossing near Palma Sola Bay.

US 17 Bridge Replacement over the Peace River (Hardee County, Florida). *Florida Department of Transportation, District 2. Project Engineer.* Responsible for bridge scour analysis, and the establishment of drilled shaft foundations and abutment protection.

FDOT District 2 Districtwide Scour Evaluations. *Florida Department of Transportation, District 2. Project Engineer.* Responsible for the scour

Location
Tucson, AZ

Education

- B.S.C.E., 1986, Civil Engineering/Hydraulics, University of Florida, Gainesville
- A.A., 1980, Pre-Architecture, Valencia College

Licenses/Certifications

- Professional Engineer, Florida, 1990, 43386
- Professional Engineer - Civil, Arizona, 2003, 39619
- Envision Sustainability Professional, Arizona, 2021, 31392

Current Commitments/ On-Going Projects

- Moson Road Pre-Scoping Cost Study - 20%
- Pima County Wastewater Reclamation On-Call Project - 10%

evaluation of over 100 off-system bridges within the District. Included development of a field data collection system using FoxPro database.

Buffalo Soldier Trail to Moson DCR. *City of Sierra Vista.* **Project Manager.** Responsible for the preparation of an Alternative Alignment Report followed by a Design Concept Report for the 4-mile new roadway. The study was developed to ADOT standards with the intent of allowing flexibility for federal funding should it be needed. Six Build alternatives were considered as well as the NoBuild alternative. The scope also included preparing the ADOT MPD traffic modelling to better understand the future traffic operations and travel patterns. The study goals and objectives met in the report included the following items: Inform and seek public input into the project alternatives; Maximize benefit to traveling public by reducing travel time and delays; Determine the preferred roadway alignment from a regional framework perspective; Enhance safety; Minimize adverse impacts to the environment; Identify new right-of-way requirements; Enhance traffic operations; Develop consensus-driven improvement alternatives; Minimize adverse impacts to residents and businesses; Create a multi-modal corridor; Develop a realistic phased implementation plan; and Develop an access management plan to maintain the operation efficiency of the roadway corridor.

Adonis Road Alignment Study. *Town of Marana.* **Project Manager.** Responsible for the preparation of the Adonis Road Alignment Study and Right of Way Mapping for the 4-mile new roadway. The proposed alignment will connect the proposed 1,780 acre Villages of Tortolita residential development and the San Lucas area to Tangerine Road just east of Interstate 10, to support the future mixed-use development to include approximately 6,500 new residential units. The study efforts included coordination with the Central Arizona Project CAP Trail consultant to accommodate required crossings of the proposed roadway and parking for future trail users.

Statewide ADA Ramp Improvements. *North Dakota Department of Transportation.* **Project Manager.** Responsible for the Statewide ADA ramp improvement project for locations in the following North Dakota cities: Beach, Golva, Center, Glen Ullin, Maddock, Michigan and Towner. The project scope includes design and right of way survey, preparation of the Categorical Exclusion Documents for submittal to FHWA, construction plans for new ramps and ramp replacements, and preparation of construction easements.

Utah Department of Transportation: Intersection Signalization Improvements, 7800 South Bingham Junction Parkway, Midvale, UT: Project Manager for the traffic signal construction management project. *The project scope included the road widening design for a left turn lane and full shoulders, signal installation design and integrated detection devices; and construction inspection and management.*

Ada County Highway District, Idaho 16, US 20/26 to Idaho 44, Boise, ID: Quality Control Manager for the roadway design, hydraulic analyses and design plans for the new north-south two-mile long divided highway with bridges over the Boise River and Phyllis Canal. *The project scope consisted of project utility coordination/relocation, six miles of local roads design and pre- and post-condition drainage design including infiltration basins, detention ponds, and roadside swales.*

Water Reclamation Facility FEMA Letter of Map Revision. *City of El Mirage.* **Project Manager.** Scope of work included surveying, study to remove existing facility from previously mapped FEMA floodplain, preparation of Technical Data Notebook and Letter of Map Revision for submittal to Maricopa County Flood Control District and FEMA.

Engler Avenue & Hwy 95 Intersection Improvements. *Yuma County Public Works.* **Project Engineer, Drainage Design.** Preparation of roadway intersection design, drainage design, construction plans, specifications and cost estimates, bid phase services, lighting design, surveying, and traffic signal design.

Desert Ridge Washes Erosion Remediation. *Desert Ridge Community Association.* **Project Engineer.** Project scope included design survey, preparation of final design and construction plans for the reconstruction of 24 existing concrete grade control structures within the Coconino and Yavapai washes located within the Desert Ridge subdivision.

Tucson High Magnet School Flooding Remediation. *Tucson Unified School District.* **Project Engineer.** Scope included drainage investigation, flood forensics, cost estimating, drainage report, construction plans, and construction oversight.

FY2018 Quartzsite Street Improvement Projects. *Town of Quartzsite.* **Project Engineer.** Scope included drainage easement negotiations, drainage design innovation, gabion basket erosion protection at low water crossing.

Florence Boulevard Intersection Improvements, Arizola Road and Trezell Road. *City of Casa Grande.* **Project Manager.** Improvements included drainage analysis, drainage structure modification, ADA ramp design, survey, traffic signal modifications, construction plan preparation, cost estimating and bid phase services.

Q A / Q C

Brad Mielke, PE, SE



Mr. Mielke is responsible for engineering design and project management for civil and structural engineering projects throughout California for private and public sector clients with a specialty in transportation structures, flood control and water resource facilities, and earth retaining structures. Bridge design experience includes new steel and concrete bridges, inspections, evaluations, repairs, and seismic retrofit design of existing bridges using AASHTO and Caltrans standards. Water resource facilities includes pump station buildings; reservoirs; tanks; and flood control facilities such as channels, box culverts, vaults, tanks, retaining walls and tie-back walls.

His experience also includes a strong background in building design for commercial, industrial, and civic buildings, along with parking structures using IBC, CBC, and FEMA design criteria constructed of concrete, masonry, steel, and timber. Mr. Mielke also specializes in analyzing and retrofitting existing structures that require repair or require strengthening to resist current seismic loads. He has provided emergency engineering evaluations, inspections and retrofit designs for existing buildings and bridges following earthquakes.

Years with Michael Baker **30** Years experience **44** Availability for this project **60%**

RELEVANT EXPERIENCE

S.R 91 Corridor Improvement Project, Riverside and Orange Counties, California.

Riverside County Transportation Commission. **Technical Manager.** Responsible for structural engineering. Michael Baker worked with the Riverside County Transportation Commission (RCTC) on the PA/ED for improvements to S.R. 91, from the S.R.241 toll road in Anaheim to Pierce Street in Riverside. The total project length is 12 miles along S.R. 91 and five miles along I-15. Michael Baker was the lead civil engineering team for the western seven-mile segment, from S.R. 241 in Anaheim to Smith Street in Corona, responsible for alternatives development, highway and interchange alignment preliminary design, bridge and retaining wall advance planning studies and structural design, interchange design, water quality design, and drainage. Responsible for alternative development; highway geometry; structure design of bridges, retaining walls; interchange design; and drainage design.

Scott's Flat Dam Tunnel and Penstock Structural Integrity Analysis, Nevada City, California.

Nevada Irrigation District. **Principal-In-Charge, Responsible for project oversight.** Michael Baker performed a seismic evaluation of an existing 1,340-foot tunnel and steel pipe penstock for the Nevada Irrigation District's (NID) Scott's Flat Dam. The tunnel includes concrete-lined and unlined portions. The steel pipe penstock sits on concrete pedestals, which are cast against the rock floor. The Federal Energy Regulatory Commission requested structural analysis and retrofit recommendations for improvement of the tunnel lining, penstock pipe, and concrete pedestal supports.

Coachella Valley Stormwater Channel from Industrial Way to North of Avenue 54, Coachella, California.

Principal-in-charge and Structural design engineer. Responsible for 4000 linear feet of concrete slope lining protection with access ramps for the Coachella Valley Water District (CVWD). This project required extensive dewatering, coordination with the geotechnical engineer and utility companies.

Michael Baker
INTERNATIONAL

Location

Palm Desert, CA

Education

- B.A., 1978, Management Engineering, Claremont Men's College, Claremont, CA
- B.S., 1978, Architectural Engineering (Structural Design Option), California State Polytechnic University, San Luis Obispo

Licenses/Certifications

- Structural Engineer, Arizona, 1998, 32611
- Structural Engineer, California, 1986, 2817
- Professional Engineer - Civil, California, 1981, 33334
- Registered Disaster Service Worker, California, SA0158
- Professional Engineer - Civil, Washington, 2019, 19110557
- Professional Engineer - Civil, Nevada, 1989, 007269

Current Commitments/ On-Going Projects

- City of Newport Beach- Collins Island Bridge - 20%
- Brookfield Properties - Western Bypass Bridge - 20%

Coachella Valley Water District (CVWD) On-Call Structural Engineering Services. *Coachella, California. Structural Engineer.* Responsible for providing for structural engineering support including PS&E and construction support for various facilities including metering bridge design, channel relining along the Coachella Canal at Terra Lago Golf Course and the Whitewater River in Coachella and La Quinta, MCC building design, and pipeline turn outs.

GreenVolts / Concentrated Photovoltaic, Belk Farms Site, Thermal, California. *Greenvolts Inc. Project Manager.* Michael Baker performed superstructure analysis and prepared final structural foundation plans for the GreenVolts High-Concentrated Photovoltaics panel system. The foundation alternatives consisted of one anchor bolt embedded in independent 4-foot-6-inch reinforced concrete cast-in-drilled-hole piles and two 1-foot-6-inch-deep mat foundations connected via coupled grade beams. The design conformed to ACI 318-05, ASCE 7-05, and the 2007 California Building Code.

Lakeview Transfer R&R Project, Anaheim, California. *Orange County Water District. Structural Engineer.* Responsible for Structures Manager duties. Michael Baker performed a comprehensive assessment of the existing 7-foot x 7-foot reinforced concrete box (RCB) structure, analysis of alternative conveyance options, recommendations for repair or replacement, and final design services for the preferred option for the Orange County Water District (OCWD). Michael Baker's design services included: inspections, structural analysis of the existing RCB structure, hydraulics operation and capacity, analysis of existing drain tubes, flow analysis for repair or replacement options, design calculations, and development of construction documents and drawings.

Wheeler Canyon Road Bridge, Santa Paula, California. Ventura County. *Principal-In-Charge. Responsible for project oversight.* Michael Baker provided a Bridge Condition Analysis, Advanced Planning Study (APS) Report and supporting HBP Funding Documents for the County of Ventura Transportation Department, to assess the existing Wheeler Canyon Road Bridge in the City of Santa Paula. Bridge maintenance reports indicated one cracking in the existing concrete structure and two heavy scouring of the channel at the abutment wingwalls. The Bridge Condition Analysis included Hydraulic and Scour Analysis and concrete testing for compressive strength and Alkali-Silica Reactivity (ASR). Michael Baker provided alternatives and associated costs for bridge repair, which ranged from crack repair, to chemical grout injection as a protection measure to arrest ASR deterioration, to full bridge replacement.

Sand Canyon Avenue Grade Separation at the Metrolink/BNSF Railroad, Irvine, California. City of Irvine. *Structural Designer. Responsible for the 64.5 foot wide underpass structure which carries the two existing railroad tracks and capable of carrying a future additional third track over Sand Canyon Avenue, a 6-lane roadway.* The underpass consists of two 52 foot spans with steel through girders supported on multi-column bents on pile foundations. The project design also included the design of a shoofly and required shoring within UPRR right-of-way. Michael Baker provided design services for the Sand Canyon Avenue undercrossing at the Southern California Regional Rail Authority, Orange County Transportation Authority, and Metrolink grade separation. Michael Baker was responsible for roadway layout, structures design, pump station design, railroad permitting and coordination, railroad shoofly design, drainage design, utility relocation coordination, survey and right-of-way engineering, community outreach, landscape and irrigation, identification of funding, and geotechnical engineering services.

Woodcrest Dam and Sycamore Dam Pipe Inspections and Structural Evaluation Services, Riverside County, California. *Riverside County Flood Control Water Conservation. Structural Engineer.* Responsible for Structures Manager duties. Michael Baker performed storm drain pipe inspection services, hydraulic evaluations, structural analysis, and a report of recommendations for existing drainage pipelines at the Woodcrest and Sycamore dam facilities. Existing 30-inch low-flow concrete outlet pipes are buried within the dam embankments. The pipelines were inspected using a specialized robotic tractor camera that provided three-dimensional high-definition recordings of the interior condition of the pipes. Based on the visual information and measurement of depths from the interactive video, Michael Baker provided structural evaluation, condition assessment, and repair recommendations. Main considerations were D-load and pipe strength; concrete cracks, spalling, and exposed reinforcing steel; and joint performance and leak resistance.

S.R. 91 Westbound Widening - Final PS&E, Orange County, California. Orange County Transportation Authority (OCTA). *Structural Engineer.* Responsible for PS&E for seven bridges (widening and bridge retrofitting), retaining walls, overhead sign structures and drainage structures. The project included final design of 3.8 miles of freeway widening to convert the existing westbound auxiliary lanes into through mixed flow lanes between Brookhurst Street and Euclid Street, Euclid Street and Harbor Boulevard, and Raymond Avenue and State College Boulevard through each interchange. Michael Baker provided plans, specifications, and estimates for the S.R. 91 widening project. The project consisted of 3.8 miles of freeway widening to convert the westbound auxiliary lanes into mixed-flow through-lanes between Brookhurst Street and Euclid Street, Euclid Street and Harbor Boulevard, and Raymond Avenue and State College Boulevard. The project also added two-lane exit ramps and associated auxiliary lanes at three interchange locations at the westbound exit ramps to Raymond Avenue, Lemon Street, and Brookhurst Street.

ENVIRONMENTAL PERMITTING

Elizabeth Meyerhoff



Ms. Meyerhoff has over 15 years of professional planning experience in environmental assessment, land use and infrastructure planning, and regulatory permitting. She has prepared and reviewed numerous CEQA, CEQA-Plus, and NEPA compliance documents, planning reports, and permit applications for local, state, and federal government agencies, utility agencies, private developers, and non-profit entities. She is responsive to her team and is a consistent communicator, while providing direct support to the executive team. She is a proven public speaker, and routinely presents staff reports and informational items. She has been involved in primary infrastructure

projects including water supply and delivery projects, transmission facilities, solid waste facilities, shoreline protection, as well as, regional planning, commercial, industrial and residential development projects.

Years with
Michael Baker **1**

Years
experience **16**

Availability
for this project **65%**

RELEVANT EXPERIENCE

North Cathedral City SW Imprv. Coachella Valley Water District. Environmental Planner.

Responsible for currently assisting with the preparation of environmental documents pursuant to the California Environmental Quality Act (CEQA) and the National Environmental Protect Act (NEPA) for the regional stormwater improvement project. The project is located on lands managed by the US Department of Interior, Bureau of Land Management, and requires a federal right-of-way, as well as Endangered Species Act coordination and jurisdictional water permitting pursuant to the Clean Water Act. The purpose of the project is to safely and reliably convey flows beneath the Interstate 10 bridge, reducing floodplain impacts for tributary areas to the project site.

Palm Desert On-Call Services.
City of Palm Desert. **Environmental Manager.** Responsible for providing third-party entitlement and environmental review services for various housing development applications.

On-Call Peer Review Support.
Riverside County. **Project Manager.** Responsible for providing third-party review of planning and environmental documents.

Coachella Valley Stormwater Channel Improvement Project, Avenue 54 to Thermal Drop Structure Environmental Impact Report and Regulatory Permitting.

Coachella Valley Water District. **CEQA Manager.** The project included the design, construction and operation to existing regional stormwater channel facility and was required to restore channel flow conditions to convey the 100-year flood and provide requisite freeboard, and to remove the existing threat of flooding during a 100-year storm event to the parcels within the area of benefit. The project area is a portion of the engineered extension of the Whitewater River Stormwater Channel. The channel functions as a conveyance channel for regional stormwater runoff, agricultural irrigation return water, and treated wastewater. Responsible for the preparation of the environmental documentation and acquiring the regulatory permits required by the United State Army Corp of Engineers, Regional Water Quality Control Board, and the California Department of Wildlife. Project cost \$50+ million. Under construction in 2021.

Climate Action and Adaption Plan.
Coachella Valley Water District. **Project Manager and web page designer.** The Districts emphasis on sustainable water management provides the catalyst for developing its first Climate Action & Adaptation Plan to reduce greenhouse gas emissions from operational activities while adapting to climate change.



Location
Palm Desert, CA

Education

- Post-Baccalaureate Certificate, 2010, Land Use and Environmental Planning, University of California, Riverside Extension
- B.A., 2004, Sociology, University of California, Riverside
- Executive Certificate Program, 0, Organizational Leadership, University of California, Riverside Extension

Current Commitments/ On-Going Projects

- County of Riverside, Transportation and Land Use Agency, Planning Department | 20%
- Pulte Group, Sevilla II TTM CEQA Compliance, City of Indio | 5%
- SGH Architects, Green Acres CEQA Compliance, City of Bloomington | 5%
- Rodeo Credit Enterprises, TTM 20561 CEQA Compliance, City of Victorville | 5%

The project included conducting an emissions inventory of existing, historic and projected GHG emissions, gap analysis and vulnerability assessment, and identifying reduction measures based on State of California regulations related to climate change. Coordinated the project team from engineering, environmental, electrical, fleet, and facilities departments for consensus on the reduction measures for the targeted areas including electricity usage, wastewater collection and treatment, and construction activities. A dedicated webpage was created for the project with tracking and implementation tools through 2030. Project cost \$99,000. The CAAP was prepared in 2021.

Non-Potable Water Pipeline Expansion Initial Study & Mitigated Negative Declaration. *Coachella Valley Water District. CEQA Manager and environmental grant application preparer.* The project consisted of construction and operation of approximately 12 miles of non-potable water pipeline segments and connections to provide irrigation water for seven local golf courses, one community church, and one sports and entertainment venue. The project alignment is located in the cities of Palm Desert, Rancho Mirage, Indian Wells and unincorporated community of Bermuda Dunes. The project would reduce groundwater overdraft in accordance with the water management goals and objectives of both the 2002 Water Management Plan and the 2010 Water Management Plan Update. Source substitution is the delivery of an alternate source of water to users that currently pump groundwater. The substitution of an alternate water source reduces groundwater extraction and allows the groundwater to remain in storage, thus reducing overdraft. The environmental documentation was prepared in accordance with the State Environmental Review Process for the Clean Water State Revolving Fund Program and was expanded beyond the typical content requirements of an IS-MND to include additional CEQA-Plus assessment. Project cost \$10+ million. Under construction in 2021.

Highway 86 Domestic Water Pipeline, Phase 2 and Booster Station Initial Study & Mitigated Negative Declaration and Regulatory Permitting. *Coachella Valley Water District. CEQA Manager.* Phase 2 involved the design and installation of 35,000 linear feet of 30-inch diameter ductile iron pipe along Harrison Street from Avenue 74 to Avenue 86 in unincorporated Riverside County. Responsible for the preparation of the environmental documentation and acquiring the regulatory permits required by the United State Army Corp of Engineers, Regional Water Quality Control Board, and the California Department of Wildlife. The project involved extensive tribal monitoring efforts during the 1.5year construction timeframe. Project cost \$27+ million. Under construction in 2019.

Galilee Center Emergency Shelter Entitlement Pre-Application. *County of Riverside. Lead Planner.* The project included entitlements such as a required Change of Zone and General Plan Amendment for the existing emergency shelter and the 6,000 square foot expansion to address increased service needs. The anticipated shelter expansion will allow the facility to almost double its emergency housing capacity as well as continue to host humanitarian efforts to support the essential needs of the working poor and migrant families in the East Coachella Valley.

Coachella Valley Stormwater Channel Improvement Project Environmental Impact Report/ Environmental Impact Statement. *Coachella Valley Water District and USACE, and coordination with Kinder Morgan, Imperial Irrigation District, and Union Pacific Rail Road. CEQA Project Manager.* Responsible for overseeing the preparation of the joint EIR/EIS, technical studies and regulatory permit application packages to satisfy the USACE 404 Nationwide permit, RWQCB 401 Water Quality Certification, and CDFW 1602 Lake and Streambed Alteration Agreement. The stormwater channel improvement project included the placement of concrete slope-lining of the levee banks/side slopes and portions of the channel bottom to restore channel flow conditions to convey the 100-year flood and provide requisite freeboard and remove the existing threat of flooding during a 100-year storm event to the parcels within the area of benefit. The project included exclusion fencing and environmentally sensitive habitat restoration mitigation including Take/Avoidance Surveys for burrowing owl (*Speotyto cunicularia*), scour and soil erosion protection, and invasive species control through equipment management on-site.

Highway 86 Domestic Water Transmission Pipeline, Phase 2 and Booster Station Initial Study/ Mitigated Negative Declaration and Addendum No. 1. *Coachella Valley Water District and coordination with the Imperial Irrigation District and Caltrans.* Responsible for the preparation of the CEQA compliance documentation, Native American tribal monitoring agreements, and acquiring the regulatory permits required by the USACE, RWQCB, and CDFW including mitigation negotiation for more than 10 jurisdictional waterway crossings. The domestic water project installed approximately 35,000 linear feet of 30-inch diameter ductile iron pipeline along a 7-mile stretch of Highway 86. The alignment traversed numerous landowners, tribal government land, waterways, and utilities including irrigation mains, agricultural drain lines, storm drain culverts and buried telephone lines. Pre-construction and construction activities involved biological mapping and clearing, off-site vegetation planting and restoration, erosion and sediment control measured and tribal monitoring.

REGULATORY PERMITTING

Shelah Riggs



Ms. Meyerhoff has over 15 years of professional planning experience in environmental assessment, land use and infrastructure planning, and regulatory permitting. She has prepared and reviewed numerous CEQA, CEQA-Plus, and NEPA compliance documents, planning reports, and permit applications for local, state, and federal government agencies, utility agencies, private developers, and non-profit entities. She is responsive to her team and is a consistent communicator, while providing direct support to the executive team. She is a proven public speaker, and routinely presents staff reports and informational items. She has been involved in primary infrastructure

projects including water supply and delivery projects, transmission facilities, solid waste facilities, shoreline protection, as well as, regional planning, commercial, industrial and residential development projects.

Years with Michael Baker **2** Years experience **22** Availability for this project **65%**

RELEVANT EXPERIENCE

Emerald Ridge (TTM 368471). *Highpointe Communities. Project Manager.* Responsibilities included preparation of an updated jurisdictional delineation report, preparation and submittal of an approved jurisdictional determination request to the U.S. Army Corps of Engineers, and issuance of a waste discharge requirement and 1602 streambed alteration agreement.

Southwest Gas Stormwater Services, Victorville, California. *Southwest Gas Corporation. Environmental Permit Coordinator.* Responsibilities included senior biological resources report QA/QC and regulatory permit review services. Michael Baker is providing construction stormwater support services to Southwest Gas Corporation. It has been performing these services continuously since 2010 and has completed more than 20 projects entailing the development of erosion and sediment control plans, stormwater pollution prevention plans (SWPPP) development and implementation, personnel training, SMARTS stormwater database reporting, agency coordination and negotiation, and permitting and compliance assistance.

Canyon Ranch Project. *Highpointe Communities. Project Manager.* Responsibilities included preparation of a pre-purchase due diligence review of a 140 acre property for

biological, cultural, agricultural, and land use issues.

On-Call Peer Review Support. *Riverside County. Environmental Planner.* Responsibilities include Senior QA/QC of CEQA documentation (initial studies, addendums, and environmental impact reports).

Malibu Lagoon Restoration Project. *Los Angeles County. Environmental Permit Coordinator.* Responsibilities included preparation of the jurisdictional delineation of state and federal waters, preparation of the 404 Individual Permit, 401 Water Quality Certification, Section 7 Biological Opinion and 1602 Streambed Alteration Agreement applications, and resource agency coordination for issuance of approvals to authorize the grading and construction of hydrology and revegetation activities intended to restore the Malibu Lagoon.

Palm Desert Groundwater Replenishment Project, San Bernardino County, California. *Coachella Valley Water District. Regulatory Permit Support.* Worked with the CVWD Environmental Department to obtain an Individual Permit under Section 404 of the Clean Water Act for construction of three berms and other associated improvements within the Whitewater River Storm Channel to facilitate groundwater recharge. Ms. Riggs prepared the draft 404(b)(1) Alternatives Analysis,



Location
Palm Desert, CA

Education

- M.S., 2002, Environmental Studies, California State University at Fullerton
- B.A., 1998, Geography, California State University at Fullerton

Current Commitments/ On-Going Projects

- Oso Ranch, San Juan Capistrano, 10%
- SCE Mission Creek Restoration Project, Santa Barbara, 15%

Environmental Assessment and Mitigation Plan documents for review and approval by the U.S. Army Corps of Engineers. The preparation of the Mitigation Plan was supported by an updated Jurisdictional Delineation report, CRAM assessment, and preparation of the USACE mitigation ratio checklist.

Devers-Palos Verde No 2 Transmission Line Project, San Bernardino County, California. *Southern California Edison. Regulatory Permit Manager.* Obtained resource agency permits under Section 404 and 401 of the Clean Water Act and Section 1602 of the California Fish and Game Code for the construction of a 128-mile 500 kilovolt transmission line project that extended between California and Arizona. Installation of the new transmission lines required the construction of hundreds of steel towers and circuit towers, along with spur roads for construction of these facilities and long-term maintenance of the new infrastructure. The project alignment extended through the eastern Riverside and San Bernardino desert areas, with temporary and permanent impacts to dozens of small ephemeral desert washes, as well as the Whitewater River. Because the project extended through two Regional Water Quality Control Board districts, the 401 water quality certification was issued by the State Water Resource Control Board. Mitigation for impacts to state and federal waters, as well as sensitive desert wildlife species, was satisfied through a land purchase with long term management of the preserve by a local non-profit agency.

Regulatory Compliance and Construction Monitoring for Tehachapi Renewable Transmission Project, Orange, Kern, Los Angeles, and San Bernardino Counties, California. *Southern California Edison. Project Manager.* Responsible for providing a regulatory permitting strategy and manage the biological resources construction monitoring for the Tehachapi Renewable Transmission Project, a 173-mile project consisting of new and upgraded transmission facilities extending from the Los Angeles Basin to the Tehachapi Mountain Wind Farms. The permitting strategy report was approved by Southern California Edison legal counsel, and the regulatory permitting contract was awarded, which included wetland delineation fieldwork and reporting, mitigation options review, and submittal of permit applications/negotiation with the resource agencies to obtain permits under Section 1602 of the State Fish and Game Code and Section 404 and 401 of the Clean Water Act. Following issuance of the permits, Ms. Riggs managed a team of six package managers and more than 350 biological monitors during construction of the transmission project. Tasks included preparation of the monitor training materials, resource agency and forest service coordination and scheduling/deploying monitors into the field.

Upper Newport Back Bay Blowoff Structure Project, Orange County, California. *Metropolitan Water District of Southern California. Regulatory Permit Manager.* Obtained resource agency permits under Section 404 and 401 of the Clean Water Act, Section 1602 of the California Fish and Game Code, and the California Coastal Act for the rehabilitation of a water distribution pipeline blow-off structure and dirt access maintenance road which serves as an essential component of the Orange County Feeder. The project site is located within a sensitive area adjacent to the Newport Back Bay and San Diego Creek. Habitat on the project site was considered suitable for the federally listed least Bell's vireo and California gnatcatcher. Project compliance with the Central/Coastal Habitat Conservation Plan/Natural Communities Conservation Plan was required for both species, with mitigation for state and federal waters and least Bell's vireo habitat identified within the watershed at an existing restoration site sponsored by the California Coastal Commission.

Distribution System Infrastructure Protection Program Project, Orange County, California. *Metropolitan Water District of Southern California. Project Manager.* Responsible for preparation of the Environmental Impact Report and permit applications (404 and 401 of the Clean Water Act, Section 7 of the Endangered Species Act and Section 1602 of the Fish and Game Code) for construction of Capital Improvement Projects and routine operations and maintenance projects within the Orange County Operating Region.

Carryover Storage and San Vicente Dam Raise Project Environmental Impact Report/Environmental Impact Statement, San Diego, California. *San Diego County Water Authority. As Permits Coordinator,* provided liaison and coordination with the EIS federal lead agency, U.S. Army Corps of Engineers, and prepared all permit applications for the project, including the 404(b)(1) Alternatives Analysis. Responsible for assisting U.S. Army Corps of Engineers with preparing all NEPA notices, reviewing technical reports, and expediting approvals. Asked to fulfill role based upon excellent relationship with U.S. Army Corps of Engineers staff in Los Angeles and San Diego.

Solstice Creek Enhancement Project, Malibu, California. *City of Malibu. Served as Regulatory Compliance Task Leader.* Prepared the wetland delineation report and biological resource report and obtained regulatory permits under Section 404 of the Clean Water Act, Section 1602 of the Fish and Game Code, and California Coastal Act. The proposed project involves replacement of an existing box culvert with a clear span bridge at the Solstice Creek crossing on Corral Canyon Road in the City of Malibu. The project is intended to remove an existing impediment to the movement of southern steel head trout from the Pacific Ocean to prime spawning and rearing grounds in Solstice Creek.

STRUCTURES LEAD

Chad Harden, PE, SE



Mr. Harden serves as a structural engineering project engineer and project manager and is responsible for preparing structural analysis, plans, specifications, and estimates (PS&E) and construction administration for transportation facilities for both public agencies and private clients. Mr. Harden has experience in the design of bridges and industrial facilities, water resources structures, flood control facilities, various retaining wall and special foundation systems, and existing structure evaluation. Mr. Harden has become involved with several standing committees of the Transportation Research Board (TRB), a National Research Council division.

Membership and participation in Seismic Design and Performance of Bridges, Foundations of Bridges and Other Structures, and Geoseismic committees allows Chad to be at the forefront of emerging design and construction guidance; such as nonlinear soil analysis, Accelerated Bridge Construction (ABC), reuse of existing foundations, pile construction, lightweight materials, and all types of retaining wall alternatives including MSE, soil nail, tieback, secant pile, soldier pile, sheet pile, and combined systems.

Years with
Michael Baker

19

Years
experience

19

Availability
for this project

80%

RELEVANT EXPERIENCE

I-10 Express Lanes Design Build, San Bernardino County. SBCTA. Structures Task Lead.

Chad personally conducted and directed structural PS&E, significant seismic strategy analysis in support of Type Selection, and final seismic design on skewed pier wall structures for the Michael Baker portion of the structures work program. Michael Baker's structures work included three bridge replacements, seven bridge widenings, three SHGA retaining walls, over 40 project retaining walls, and other non-standard overhead signs, luminaires, and toll facilities. Significant challenges included a hybrid girder system, highly skewed bridges, staged bridge replacement (freeway UC and OC), bridges over channels, precast and post-tensioned precast girders, and extension of an MWD aqueduct protection system.

Blackstone (Formerly Known as Tonner Hills), Brea, California. Shea Homes LP, So Cal Div. Structural Engineer.

Responsible for site retaining and screen masonry walls, and existing pipe evaluation and protection for construction phase. Michael Baker was responsible for the planning and civil engineering for the 800-acre, 781-unit Blackstone development that consists of seven defined planning areas in the hills of northeast Brea. The project is located within an active oil field with more

than 250 operating oil wells and an on-site gas processing/cogeneration plant. The project integrates the residential units among the existing oil wells, within seven defined planning areas. The complexity of the project required Michael Baker and the project team to address not only the traditional challenges of infrastructure improvements in hillside development with extensive grading, stormwater detention, and water quality, but also vaulting and abandonment of oil wells, methane gas mitigation, rerouting of oil facilities, management of oil impacted soil, oil seeps mitigation, and proposed oil field operational issues.

Garnet Street Bridge Replacement Three-Year On-Call. Hemet, California. San Bernardino County. Engineer.

Responsible for preparing independent check calculations and PS&E QA/QC review for this 200-foot-long two-span cast-in-place post-tensioned concrete box girder bridge spanning over Mill Creek. The center pier is supported on a spread footing with rip-rap protection to mitigate against pier scour. Michael Baker provided engineering and design services for the replacement of the Garnet Street Bridge. As part of the project, it prepared preliminary and final roadway designs, developed final plans, specifications, and estimates (PS&E), performed hydraulics studies, and managed the preparation of wetland delineation, permitting, and compliance from environmental

Michael Baker
INTERNATIONAL

Location

Santa Ana, CA

Education

- M.S., 2003, Structural Engineering, University of California, Irvine
- B.S., 2001, Civil Engineering, University of California, Irvine

Licenses/Certifications

- Professional Engineer - Civil, California, 2005, 67648
- Structural Engineer, California, 2008, 5232

Current Commitments

- I-405 Aux Lanes - 10%;
- Ventura County Public Works VR-1 Levee Improvements - 5%
- I-15 Express Lanes - 5%

documents previously prepared for conformity in support of a joint Initial study/categorical exclusion (IS/CE) for the Grant Street Bridge Replacement project. The County of San Bernardino intended to replace the bridge with a state-of-the-art bridge to accommodate existing traffic volumes. The new bridge is a two-span 200-foot-long, 52-foot-wide cast-in-place prestressed concrete box girder bridge with a wider travel way to accommodate modern vehicles. All existing pipelines and utilities were relocated as necessary.

Metro Gold Line Intermodal Parking Facilities and Enhancements, Arcadia, Duarte, Irwindale, and Azusa, California. *Metro Gold Line Foothill Extension Construction Authority. Structural Engineer.*

Responsible for structural engineering. Michael Baker is providing professional services for the Metro Gold Line Authority's Intermodal Parking Facilities and Enhancements Design-Build Project. The project involves six transit station sites, four of which will include the design of structured parking, located within the cities of Arcadia, Monrovia, Duarte, Irwindale and Azusa. The project includes off-site intersection improvements to provide mitigation measures in accordance with the Final EIR mitigation measures, as well as two Traction Power Supply Substation (TPSS) sites at the Michillinda and Soldano TPSS sites. Michael Baker is providing all on-site and off-site design and survey services including civil, drainage, water quality, structural, traffic, environmental, legal descriptions, exhibits, and utility design services for all sites.

I-5 Widening (Oso to La Paz) Final Plans, Specifications, and Estimates. *Orange County, California. Orange County Transportation Authority (OCTA). Project Engineer.*

Responsible for type selection and structural PS&E to widen the existing Oso Creek Bridge, a nine span cast-in-place concrete slab bridge supported on one inch to six inch pier walls and 24 inch cast-in-steel-shell concrete piles. Also serving as the task manager for the project retaining walls, which include tieback walls, mechanically stabilized embankment walls, pile and spread footing supported concrete walls, and a soil nail wall. Michael Baker, in a subconsultant role with the Orange County Transportation Authority, Caltrans District 12, and the cities of Laguna Hills, Laguna Niguel, and Mission Viejo, provided design services to add a general purpose lane in each direction for more than 2.6 miles of Interstate 5 from the southern segment limit (south of Oso Parkway) to the northern segment limit (south of Alicia Parkway). The project included the widening or replacement of four bridge structures, retaining walls, sound walls, and drainage improvements. Michael Baker provided type selection and structural PS&E to widen the existing Oso Creek Bridge, a nine-span cast-in-place (CIP) concrete slab bridge supported on pier walls and cast-in-steel-shell (CISS) concrete piles. The seismic design included a pushover analysis considering liquefiable soils. Baker also provided type selection and structural PS&E for the project retaining walls, which include 254 linear feet of new sound wall on a bridge widening, 695 linear feet of new sound wall on mechanically stabilized earth (MSE) wall, 80 linear feet of standard plan sound wall, as well as sub-horizontal-ground-anchor (SHGA) or "tieback" walls, pile and spread footing supported cast-in-place (CIP) reinforced concrete walls, a CIP wall with vertical ground anchors, and a soil nail wall. Michael Baker also provided environmental engineering, agency and public coordination, drainage designs, surveying, and construction-phase services.

Pilgrim Creek Vector Remediation and Restoration Project. *Oceanside, California. City of Oceanside. Structural Engineer.*

Pilgrim Creek Vector Remediation 19 Availability and Restoration Project. Oceanside, California. City of Oceanside. Structural Engineer. Served as Structural Engineer to develop structural PS&E for multiple barrel arch culvert crossings. Detailed plan alternatives for various materials, including aluminum plate arch culverts and aluminized steel pipe-arches to provide maximum economy for the Client. The proposed project will consist of the development of design solutions that will remove or significantly reduce the presence of mosquitoes that transmit vector-borne diseases throughout the Oceanside Golf Course. Michael Baker provided PS&E to re-contour Pilgrim Creek invert to allow for positive slope, remove and reconstruct creek crossings for better conveyance, relocate the lateral channel, and excavate the existing in-line lake.

H & H LEAD

Todd Pitner, QSD/P



Mr. Pitner is a civil engineer with many years of progressively responsible work experience with extensive knowledge in all aspects of civil engineering. Mr. Pitner's area of expertise is hydrology, hydraulics and storm drain design with emphasis on water quality mitigation measures associated with new development and redevelopment to include residential, highway, industrial, commercial facilities and municipal facilities, to comply with the regulatory requirements under the National Pollution Discharge Elimination System (NPDES) permit. He has designed and overseen the construction of notable projects throughout Southern California which

incorporate low impact development and green infrastructure to minimize the adverse impacts on storm water runoff quality and quantity resulting from urban development. Designed treatment control systems include infiltration basins/trenches, bioretention features, detention basins, underground storage, infiltration areas, constructed wetlands and various types of proprietary treatment devices to comply with local MS4 Permits.

Years with
Michael Baker **7**

Years
experience **27**

Availability
for this project **25%**

RELEVANT EXPERIENCE

Flood and Blow Sand Mitigation Services, Coachella Valley, California. Coachella Valley Association of Governments (CVAG). Project Manager.

Responsible for the evaluation of 11 stormwater crossings throughout the Western Coachella Valley in the cities of Desert Hot Springs, Palm Springs and Cathedral City. Hydrology was performed to determine the design flow rates. Alternative concepts were developed and presented to all stakeholders. Hydraulic models were performed. A risk assessment was performed on all crossing to prioritize each crossing taking into account multiple factors, including costs, traffic count, environmental concerns, emergency routes, etc. A report was prepared to include alternative concepts and findings of risk assessment. Michael Baker provided engineering services to help mitigate flood and blow sand risks in the Coachella Valley. The purpose of the project was to keep regional roads open during severe flood and blow sand events. Michael Baker helped identify risks and potential mitigation strategies, outlined potential environmental impacts and project permitting that would be required, and provided a budget-level estimate including design, right-of-way, permitting, construction, and other costs associated with the mitigation. It also prepared

alternative concepts for each area of concern and provided stakeholder engagement services.

Santiago Canyon College Erosion and Sediment Control Project, Orange, California. Rancho Santiago Community College Dist. Project Manager.

Responsibilities included the development of a plan for temporary erosion and sediment control measures for the undeveloped site at the southeast corner of the Santiago Canyon College. The plan achieved the following three objectives: prevent/minimize sediment transport from the undeveloped site to the maximum extent practicable; provide a path of travel to convey/divert excess storm water runoff towards the most accessible drain inlets while protecting said drains. The site was evaluated, based on best available information, to identify constraints and limitations, evaluate topography, soil characteristics, percent impervious, existing flow patterns, discharge location(s), storm drain improvements, site boundaries, adjacent features. This information was used to determine the most appropriate and cost-effective erosion and sediment control best management practices (BMPs) to meet the objectives outlined above. All BMPs will be installed per CASQA BMP Fact Sheets and/or manufacturer's recommendations. Michael Baker developed a plan for

Michael Baker
INTERNATIONAL

Location

Palm Desert, CA

Education

- B.S., 1995, Civil Engineering, San Diego State University

Licenses/Certifications

- Professional Engineer - Civil, California, 1998, 58606
- Qualified SWPPP Developer (QSD), California, 2015, 00550
- Qualified SWPPP Practitioner (QSP), California, 2015, 00550
- Real Estate License, California, 2010, 01864200
- OSHA 40-Hour HAZWOPER Certification

Current Commitments/On-Going Projects

- Riverside County Transportation Dept., On-call Plan Check Review | 15%
- City of Murrieta, On-call Plan Check Review | 25%
- City of Palm Desert, On-call Plan Check Review | 25%
- Butterfield Stage Road Street Widening | 5%
- Mount Rubidoux Erosion Repair | 5%

Michael Baker
INTERNATIONAL

temporary erosion and sediment control measures for an undeveloped site at the southeast corner of the Santiago Canyon College. The plan minimized sediment transport from the undeveloped site and provided a path of travel to convey excess stormwater runoff towards the most accessible drain inlets. Michael Baker also evaluated the site to identify constraints and limitations, evaluate topography, soil characteristics, existing flow patterns, discharge locations, site boundaries, and adjacent features to determine the most appropriate and cost-effective erosion and sediment control best management practices.

On-Call Consulting for Construction General Permit, California. *Irvine Ranch Water District.* **Project Engineer.** Responsible for preparing the Storm Water Pollution Prevention Plan (SWPPP) for project compliance with the Construction General Permit, adopted Order No. 2009-0009-DWQ. SWPPP development activities included site-specific risk assessments, preparation of permit registration documents, BMP selection and design. QSP services included pre-construction site visit, training of site personnel, routine monitoring, annual report preparation and NOT. Michael Baker has provided Construction General Permit support services to Irvine Ranch Water District since 2011. Tasks for this on-call include construction site inspection, peer review of stormwater pollution prevention plans and annual reports, training development and delivery, and contractor coordination.

Permit and TSO Compliance Support for Metal Discharges, Shaver Lake, California. *Southern California Edison Company.* **Environmental Specialist.** Responsible for preparing, reviewing, and amending the Storm Water Pollution Prevention Plan (SWPPP) for project compliance with the Construction General Permit, adopted Order No. 2009-0009-DWQ, conducts site-specific training and routine inspections for compliance with the permit requirements. SWPPP development activities include site-specific risk assessments, preparation of permit registration documents, BMP design and evaluation, and implementation of the monitoring and reporting program. Michael Baker provided client support in the development of a work plan to address non-compliant metal (Zn, As, Pb, and Cu) concentrations contained in three discharge waste streams at the Eastwood Hydroelectric Power Plant, a unique facility located more than 1.5 miles inside a mountain. Michael Baker developed a plan to simultaneously address the time schedule order (TSO) requirements of conducting a water effects ratio (WER) study, mixing zone study (MZS), and implementation strategy to reduce loading being discharged, while simultaneously supporting a change to the permit structure during the issuance of the facility NPDES permit.

Shaver Dam Boat Barrier Project, Shaver Dam, California. *Southern California Edison Company.* **Project Manager.** Responsible for preparing the Storm Water Pollution Prevention Plan (SWPPP) for project compliance with the Construction General Permit, adopted Order No. 2009-0009-DWQ. SWPPP development activities included site-specific risk assessments, preparation of permit registration documents, BMP selection and design. QSP services included pre-construction site visit, training of site personnel, routine monitoring, annual report preparation and NOT. Michael Baker is providing stormwater pollution prevention services (QSD and QSP) for the Shaver Dam Boat Barrier project. Services will include the preparation of an erosion and sediment control plan, and bi-weekly monitoring services, reporting, coordination, and project management.

Vermilion Valley Dam Spillway Rebar Repair Project, Lake Edison, California. *Southern California Edison Company.* **Project Manager.** Responsible for preparing the Storm Water Pollution Prevention Plan (SWPPP) for project compliance with the Construction General Permit, adopted Order No. 2009-0009-DWQ. SWPPP development activities included site-specific risk assessments, preparation of permit registration documents, BMP selection and design. QSP services included pre-construction site visit, training of site personnel, routine monitoring, annual report preparation and NOT. Michael Baker is providing stormwater construction support services for the Vermilion Valley Dam Spillway Rebar Repair project. The Vermilion Valley Dam forms Lake Edison and has a high-hazard potential. Michael Baker will prepare an erosion and sediment control plan, perform an initial site visit and training, and provide monitoring, reporting, coordination, and project management.

Water Quality Management Services On-Call, Riverside County, California. *Riverside County Transportation Department.* **Project Manager.** Responsible for performing and assigning technical reviews of Water Quality Management Plans and hydrology studies. Michael Baker is providing on-call engineering services for plan checks of water quality management plans for new developments and redevelopment projects. Plan-check services include plans for street improvements, striping, utility coordination, street lighting, grading, and other improvement plans per the Riverside County Department of Transportation's plan-check policies and guidelines.

SCOUR ANALYSIS

Steven Giffen, PE



Mr. Giffen's background includes specialized work in the fields of hydrology and hydraulics; he has specific experience applying the HEC-HMS and HEC-RAS computer models for hydrologic and hydraulic analysis. Recent project experience includes: floodplain analysis, regional watershed hydrology studies, sediment transport analysis, design of levee and retarding basins, cost/benefit analysis, storm drain design, coordination with public agencies, storm drain, and flood control master plans

Years with
Michael Baker **35**

Years
experience **44**

Availability
for this project **35%**

RELEVANT EXPERIENCE

Avenue 50 Bridge Over Coachella Valley Stormwater Channel, Coachella, California.

City of Coachella. Senior Civil Engineer. Responsible for preparing channel and bridge hydraulics to determine scour characteristics to be used in bridge and abutment design. Michael Baker is assisting with preparation of California Environmental Quality Act (CEQA)/National Environmental Policy Act (NEPA) documentation for construction of a new bridge for Avenue 50 over the Coachella Valley Stormwater Channel (CVSC). The existing crossing is a low-water crossing that is frequently flooded during storm events. The project is intended to create a new bridge to improve safety and travel within the project area. Key issues include channel hydraulics, biological resources, visual resources, and cultural resources due to the proximity of tribal lands to the project site.

Morongo Creek Flood Hazard Evaluation and Channel Design, Coachella Valley, California.

Coachella Valley Water District. Senior Civil Engineer. Responsibilities included channel design and constructability assessment. Design included flow conveyance optimization, hydraulic optimization at existing and proposed bridge structures, and maintenance access. Michael Baker provided a planning-level study and final engineering design services for the Morongo Wash Channel Design Phase 1. New

floodplain mapping along the Morongo Wash Watershed had been recently prepared by the Coachella Valley Water District (CVWD) as part of the North Cathedral City and Thousand Palms Stormwater Management Plan, which resulted in significant increases in the base flood elevations along the 1-10 corridor. For the project, Michael Baker provided hydraulic modeling, flood-protection alternatives, agency coordination, and channel design.

South Norco Channel Stage 2 Improvement Project, Norco, California. Riverside County Flood Control Water Conservation. Senior Civil Engineer.

Responsibilities included design of an improved section of open channel and culvert crossings. Design included incorporation of existing lateral drainage facilities into the improvements. Michael Baker is providing design and engineering services to replace nearly 5,800 feet of mainline channel with a new channel sized to contain the 100-year storm event. For the project, Michael Baker is performing data collection, design survey, hydrology and hydraulics, development of the channel conceptual plan and final plans, specifications, and estimates (PS&E), environmental documentation, regulatory permitting, and FEMA floodplain mapping and processing.

Lowe Reserve Deep Canyon Flood Control Project, Rancho Mirage, California. *Lowe Reserve Corp. Engineer.* Responsible for final engineering design, including

Michael Baker INTERNATIONAL

Location

Santa Ana, CA

Education

- M.S., 1991, Civil Engineering, California State University at Long Beach
- B.S., 1983, Civil Engineering, University of California, Irvine
- B.S., 1983, Information and Computer Science, University of California, Irvine

Licenses/Certifications

- Professional Engineer - Civil, California, 1987, 42154
- Fish Passage and Stream Restoration Design Training, Washington, 2021, FPT20-16957

Current Commitments

- The Irvine Company, Orange Heights, City of Orange, 25%
- Brookfield Properties, Western ByPass, City of Temecula, 20%
- Caltrans, Rincon Fish Passage, Rincon Creek-City of Ventura, 20%

collecting SPF flows from an alluvial fan and conveying the flows through the residential development. The project is located on a large, active alluvial fan with a tributary drainage area of over 46 square miles. The site is subject to historic flooding which carries a significant amount of sediment and debris. Protection of the development from these flood hazards is addressed through a comprehensive flood control program which utilizes a combination of structural control measures and channelization to achieve long term stabilization for this portion of the alluvial fan.

Newport Coast Drive Extension (Phase I), Newport Beach, California. *Orange County.* **Engineer.** Mr. Giffen was responsible for drainage analysis and design for approximately three-quarters of a mile of regional arterial roadway that included local surface drainage and large regional flood control facilities. Michael Baker provided engineering services for improvements to a bypass arterial roadway in the San Joaquin Hills Transportation Corridor (SJHTC). Improvements included a box culvert crossing, channel improvements, grading, utility coordination, habitat mitigation plans, and resource agency permits. Extensive coordination with property owners and multiple agency approvals were unique elements of this project. A retaining wall adjacent to the SJHTC bridge abutment and tunnel extension and ramp modifications were also necessary. Phase II of the project included obtaining an encroachment permit from Caltrans District 12 and processing a fact sheet for the join at the SJHTC interchange. This one-mile arterial highway improvement was completed on a fast-track schedule.

Borrego Wash Channel Floodwall, Irvine, California. *Foothill Ranch Company.* **Engineer.** Responsible for preparation of floodwall construction plans. Michael Baker prepared construction plans for a 430-foot floodwall adjacent to a regional flood control channel. The floodwall was required to keep 100-year flows from overtopping the channel bank and inundating a proposed commercial development. The floodwall was constructed using vinyl sheet piling at a substantial cost savings to the developer.

Olivas Park Drive. *City of Ventura.* **Senior Civil Engineer.** Responsible for hydrology, channel hydraulics, and plan preparation. Michael Baker prepared a preliminary design report and final design plans, specifications, and estimates for the project to widen the existing Olivas Park Drive from two to four lanes between Golf Course Drive and Perkin Avenue and provide approximately 3,200 feet of new four-lane roadway from the existing Olivas Park Drive terminus at Perkin Avenue to the Auto Center Drive/Johnson Drive intersection. The roadway extension will include class II bicycle lanes, a new traffic signal, water quality treatment, on- and off-site drainage facilities, and new utilities, including domestic and reclaimed water, sewer, and irrigation lines.

Heritage Fields Drainage, Irvine, California. *FivePoint Communities (formerly Heritage Fields El Toro, LLC).* **Senior Civil Engineer.** Responsible for hydrology, channel hydraulics, and plan preparation. Michael Baker has completed multiple projects for Fivepoint Communities (formerly Heritage Fields) within their project site. The proposed development, which includes the The Great Park, lies within six regional watersheds (Marshburn, Bee Canyon, Agua Chinon, Borrego, Serrano, and Upper San Diego Creek). Other projects within this development areas include the Borrego Wash CLOMR/LOMR processing with FEMA and Agua Chinon Channel Improvements.

Lytle Creek Flood Control Channelization Program, San Bernardino, California. *Lytle Creek Land & Resources.* **Engineer.** Responsible for the preparation of hydrology and floodplain hydraulic analysis. Michael Baker provided hydraulic engineering evaluation for a channelization program for a proposed 3,600-acre planned community development. Michael Baker evaluated headcutting and regional and local flood protection measures for the project, specifically addressing the requirements of alluvial fan flooding hazards. Sediment transport analysis and alluvial fan hydraulics were incorporated into the evaluation. The recommended structural control measures included over two miles of levee, soil cement revetment, grade stabilization structures, and on-site detention facilities.

Martin Canyon Creek Streambank Stabilization Program, Dublin, California. *Warmington Group.* **Engineer.** Responsibilities included hydrology and hydraulics. Michael Baker provided engineering services to Warmington Homes for the preparation of a hydraulic analysis report and design drawings for the Martin Canyon Creek Streambank Stabilization Program. The report evaluated the erosion and sediment characteristics of the creek for design flood events and identified improvements necessary for the long-term stabilization of the creek channel. The proposed improvements are designed to preserve the valuable natural resource of the creek environment and protect adjacent residential development.

Jefferson Street Bridge Widening over La Quinta Evacuation Channel, La Quinta, California. *City of La Quinta.* **Engineer.** Responsibilities included hydrology and hydraulics. As part of the Jefferson Street Widening Project, Michael Baker prepared structural plans, specifications, and estimates for a six-span, 175-foot slab bridge. The project widened the bridge 36 feet on the left and 47 feet on the right to a total width of 131 feet. Structural design included seismic analysis of the combined structure for the maximum credible earthquake. Removal of the concrete slope lining around the existing pile shaft extensions and reconstruction of the lining with an expansion joint was necessary to prevent shear failure of the pile extensions.

ROADWAY LEAD

Frank Tran, PE



Mr. Tran is a registered civil engineer with more than two decades of experience (six years with RBF Consulting and nearly 15 years with the City of Newport Beach Public Works Department). He is committed to providing high-quality service to every project. Mr. Tran is a professional, capable, and motivated individual who consistently performs in challenging environments. He works with integrity and enthusiasm, and works well with others.

Years with
Michael Baker **4**

Years
experience **24**

Availability
for this project **75%**

RELEVANT EXPERIENCE

Santa Ana River Parkway Trails Extension, Orange County, California.

Orange County Public Works. Senior Civil Engineer.

Responsible for preparing preliminary and final engineering designs, plans, and cost estimates for the Santa Ana River Parkway Extension project. Michael Baker prepared final design plans, specifications, and estimate (PS&E) for the Santa Ana River Parkway Extension project, which will construct a 2.6-mile extension of bikeway, riding, and hiking trails systems from Gypsum Canyon Road to the Orange County Line, in coordination with OCPW, Orange County Parks, and the Army Corps of Engineers.

TranSystems Corporation IDIQ. CALTRANS. Senior Civil Engineer.

Responsible for performing QA/QC for ADA curb ramp improvements designed by other engineers.

ACT Master Agreement related to Task Order 1 on Caltrans 12A1756. CALTRANS. Senior Civil Engineer.

Responsible for performing QA/QC for ADA curb ramp improvements designed by other engineers.

Boeing HB Phase 2. Sares-Regis Group. Technical Manager.

Responsible for preparing and reviewing final engineering designs, plans, and cost estimates for the off-site improvement plans for Hunting Gateway Industrial, LLC (Phase 2 - Delta Lane) project.

Olivas Park Drive. City of Ventura. Technical Manager.

Responsible for reviewing final engineering designs, plans, and cost estimates for the Olivas Park Drive extension project.

Michael Baker prepared a preliminary design report and final design plans, specifications, and estimates for the project to widen the existing Olivas Park Drive from two to four lanes between Golf Course Drive and Perkin Avenue and provide approximately 3,200 feet of new four-lane roadway from the existing Olivas Park Drive terminus at Perkin Avenue to the Auto Center Drive/Johnson Drive intersection. The roadway extension will include class II bicycle lanes, a new traffic signal, water quality treatment, on- and off-site drainage facilities, and new utilities, including domestic and reclaimed water, sewer, and irrigation lines.

Yorba Linda Bastanchury Rd Wide. City of Yorba Linda. Senior Civil Engineer.

Responsible for preparing and reviewing final engineering designs, plans, and QA/QC.

Felipe Road/Oso Parkway Intersection Improvements PA/ED, Mission Viejo, California.

City of Mission Viejo. Senior Civil Engineer. Responsible for preparing fee proposal for Felipe Road/Oso Parkway intersection improvements. Michael Baker developed concept plans and provided consulting services associated with Project Approval Environmental Documentation (PA/ED) for improvements to the intersection of Felipe Road and Oso Parkway. The proposed improvements include adding dual left turn lanes for both directions of Felipe Road as well as eastbound Oso Parkway and a designated right-turn lane for southbound Felipe Road. Michael Baker provided project management; reviewed existing records; developed a Record Constraints and Appraisal exhibit;

Michael Baker INTERNATIONAL

Location

Santa Ana, CA

Education

- A.S., 1994, General Education, Pasadena City College
- B.S.C.E., 1997, Civil Engineering, California State Polytechnic University, Pomona

Licenses/Certifications

- Professional Engineer - Civil, California, 2002, 62845

Current Commitments

- City of Long Beach, Studebaker Rd Street Improvements project in the City of Long Beach, 100% committed. 90% submittal in October 2022.

and prepared draft and final concept plans, including topographic and planimetric mapping, to address design, environmental, right-of-way, estimated cost issues. Additionally, In accordance with the California Environmental Quality Act (CEQA), Michael Baker prepared a Notice of Exemption (NOE), which included a description of the project, project location, and justification for use of a categorical exemption. Michael Baker processed the preliminary and draft concept plans with all affected agencies and prepared PowerPoint presentations at public meetings.

Cow Camp Road Extension, Rancho Mission Viejo, California. *Rancho Mission Viejo, LLC.* **Senior Civil Engineer.** Responsible for preparing and reviewing final engineering designs, plans, and cost estimates for Cow Camp Road Extension project. Michael Baker is providing design services for the nearly five-mile long Cow Camp Road Project. When complete, this project will have taken more than 10 years to design and cost more than \$125 million to construct. The project serves as the backbone infrastructure for the Rancho Mission Viejo Development that will eventually include more than 14,000 homes and five million square feet of retail and commercial space. Included in this significant project are nearly five miles of arterial roadway, more than 10 intersecting local streets, bridges over Chiquita Canyon, Gobernadora Canyon, and San Juan Creek, and an interface with Caltrans at Ortega Highway that requires an Intersection Control Evaluation (ICE). The project includes significant water and sewer facilities, local and regional stormwater control, water quality systems and basins, and extensive coordination with several permitting agencies.

Cow Camp Road Ph 2C-2D. *Rancho Mission Viejo, LLC.* **Senior Civil Engineer.** Responsible for preparing and reviewing final engineering designs, plans, and cost estimates for Cow Camp Road Extension project.

Crown Valley Parkway Westbound Widening, Laguna Niguel, California. *City of Laguna Niguel.* **Technical Manager.** Responsible for performing QA/QC for street improvements plans for Crown Valley Parkway westbound widening project. Michael Baker will provide final engineering design services to widen the north side of Crown Valley Parkway between the Interstate 5 southbound exit ramp and the westerly limits of the Oso Creek Bridge, and to widen Forbes Road to provide additional turning movements through the intersection. This work requires coordination with several public agencies and private entities, including the Orange County Public Works (OCPW), California Department of Fish and Wildlife (CDFW), San Diego Gas and Electric (SDG&E), and the Laguna Niguel Apartments developer TPG (Laguna Niguel – Crown Valley) Acquisition, LLC (TPG).

CityLB-4th Street. *City of Long Beach.* **Technical Manager.** Responsible for preparing and reviewing final engineering designs, plans, and cost estimates for 4th Street improvements project.

San Antonio Drive Improvement Project, Long Beach, California. *City of Long Beach.* **Senior Civil Engineer.** Responsible for preparing and reviewing final engineering designs, plans, and cost estimates for San Antonio Drive Street improvements project. Michael Baker provided design and engineering services for the City of Long Beach to prepare plans, specifications, and estimates and provide bid and construction support services for improvements to San Antonio Drive between Long Beach Boulevard and Atlantic Avenue. Michael Baker performed reconstruction and resurfacing of the asphalt pavement to extend its useful life, provided incidental curb, gutter, driveway apron, and sidewalk improvements, constructed curb ramps and bus pads, and replaced pavement markings.

Interstate 405 High-Occupancy Vehicle/Express Lane Design-Build Improvement Project, Costa Mesa, California. *Caltrans - District 12.* **Senior Civil Engineer.** Responsible for reviewing the final design plans prior to construction for the design-build project on I-405 from S.R. 73 in Costa Mesa to Interstate 605 in Seal Beach. Michael Baker assisted the client by providing design quality verifications and design oversight services for PS&E packages submitted by the design builder of the Interstate 405 Improvement Project. Michael Baker reviewed the final design plans prior to construction for all seven design segments of this 13-mile design-build project on I-405 from S.R. 73 in Costa Mesa to Interstate 605 in Seal Beach. The project involved adding a mixed flow lane and an express lane in each direction and converting the existing high-occupancy vehicle lane to an express lane for this second largest project in California history. Michael Baker also reviewed and provided comments on design exception fact sheets.

TRAFFIC/LIGHTING/TRAFFIC CONTROL

Octavio Hernandez, PE



Octavio has over 17 years of technical experience in implementing transportation management plans for handling traffic during construction and developing safe work zones on the California state highway system. This has included preparation of complex maintenance of traffic control plans (MOT), development of TMP reports, design plans for temporary communication systems to maintain continuous contact with the Caltrans Transportation Management Center, as well as temporary lighting and temporary traffic signals and ramp metering to maintain functionality throughout construction. He has a thorough knowledge of the California MUTCD and Caltrans

standards.

Years with
Michael Baker **7**

Years
experience **18**

Availability
for this project **65%**

RELEVANT EXPERIENCE

I-10 Corridor Express Lanes Project, Los Angeles and San Bernardino Counties, California.

SANBAG (San Bernardino Associated Government). **Traffic Task Manager/Engineer.** Overall traffic design manager. Octavio was responsible for leading the design of electrical, ITS, tolling and MOT through final design. He provided signing, work zone safety and work zone traffic control design for a highly complex MOT consisting of various traffic crossovers, splits and 55-hour lane closures. Octavio's comprehensive knowledge of operations and engineering requirements for tolling infrastructure needs assisted him with minimizing conflicts in construction related to tolling technology, testing, and commissioning. He understands how to develop effective MOT plans that maximizes phasing efficiency. Michael Baker provided design and engineering services as the lead designer on the Interstate 10 Corridor Express Lanes project. This design-build project aimed to reduce traffic congestion, increase throughput, and enhance regional mobility. It involved the design and construction of two express lanes in each direction of I-10 from the Los Angeles/San Bernardino County line to the I-10/I-15 interchange. It also included the reconstruction or modification of existing ramps at 10 interchanges and 20 bridge structures.

SR-91 Corridor Improvement Project Design Build, Corona, CA. RTCT. Project Design Engineer.

Octavio served as key staff member on SR-91 CIP where he led the entire ITS and lighting design. He also played a key role in developing the design for Caltrans and RCTC's communication network throughout the entire project corridor. His expertise in construction staging and traffic handling was also integral to work on the SR-91 CIP, where he worked closely with Caltrans and the City of Corona to support the development of the stage construction and traffic handling for local road design and coordinated the local road MOT with the freeway MOT. Additionally, Octavio coordinated all temporary lighting design with the MOT design team throughout all phases of construction, including coordination with the Southern California Edison (SCE) for temporary service points due to construction conflicts in both state highway and local streets. The project extended the 91 Express Lanes from the Riverside County/Orange County Line to I-15, providing the first tolled expresslanes in Riverside County. This design-build project also added general purpose lanes, auxiliary lanes, and an Express Lane Connector between eastbound 91 and southbound I-15 and between northbound I-15 and westbound 91. Improvements also were made to interchanges, ramps, and local streets.

Michael Baker
INTERNATIONAL

Location
Ontario, CA

Education
B.S., 2004, Civil Engineering, California State University at Long Beach

Licenses/Certifications
Professional Engineer - Civil, California, 2011, C78085

Professional Engineer - Civil, Washington, 2020, 20108872

Professional Engineer - Civil, Arizona, 2021, 74819

Current Commitments

- San Bernardino County Transportation Authority, I-10 Express Lanes Design Build (Contract 1), Ontario, CA, 20%
- San Bernardino County Transportation Authority, I-15 Express Lanes PS&E, Ontario/Rancho Cucamonga, CA, 30%
- Caltrans District 8, I-10/Monroe Ave Interchange PS&E, Indio, CA: 10%
- Misc. Projects and Administration: 10%

I-405, Renton to Bellevue Widening and Express Toll Lanes Design Build Project. *Renton, WA WSDOT. MOT Discipline Lead.* Octavio was responsible for the team developing the MOT plans, Transportation Management Plan, scheduling, and coordination with all other disciplines. Michael Baker is providing design support for a design-build project to widen I-405 from Renton, Washington to Bellevue, Washington in order to provide congestion pricing toll lanes. The project includes nearly 12 miles of pavement reconstruction/widening, 30 bridges, interchange reconfigurations, and 130 retaining walls. Limitations on lane closures on this roadway carrying more than 200,000 vehicles per day result in complex MOT phasing. Michael Baker's services include project management, roadway design, structure design, drainage, and MOT.

I-15 Corridor Freight and Express Lanes PS&E Project, San Bernardino and Riverside Counties, California. *SANBAG (San Bernardino Associated Government). Traffic Task Manager/Engineer.* Overall traffic design manager. Michael Baker is currently serving as lead designer on the Interstate 15 Corridor Express Lanes design-bid-build project to reduce traffic congestion, increase throughput and enhance regional mobility. As lead designer, Michael Baker is responsible for managing the overall design process, which includes ensuring that the design meets the schedule and established design criteria, as well as interfacing with the major project stakeholders, California Department of Transportation (Caltrans), Riverside County Transportation Commission (RCTC), and various rail authorities to integrate design and construction.

James Donlon Boulevard Extension, Pittsburg, California. *City of Pittsburg. Traffic Task Manager/Engineer.* Overall traffic design manager. Michael Baker completed a Project Study Report, Advance Planning Studies, and an Environmental Impact Report in 2012. Michael Baker is currently preparing plans, specifications, and estimates for roadway, structures, creek hydraulics and drainage design for the proposed James Donlon Boulevard Extension project. The project consists of constructing an approximately 1.7-mile long section of new roadway from Kirker Pass Road to the western property line of the planned Sky Ranch residential development, consisting of a two-lane rural arterial roadway in the undeveloped hills south of the city. The project also includes upgrading the adjoining Kirker Pass Road to a four-lane divided highway to urban standards.

S.R 241 / S.R 91 Express Lanes Connector Project Study Report and Environmental Document. *Orange County, California. Traffic Task Manager/Engineer.* Responsible for traffic engineering support. Heavily involved in the design of the overhead sign and pavement delineation concepts for the entire project. The Transportation Corridor Agencies (TCA) proposes to construct a new median to median direct connector ramp from S.R. 241 to S.R. 91 in the City of Anaheim. The proposed connector ramp would provide additional access to S.R. 91 east of S.R. 241. The proposed median to median connector ramp that will connect S.R. 241 and the S.R. 91 Express Lanes, which are tolled facilities, is also proposed to be a tolled facility.

Terra Lago Four Seasons Project. *Indio, California. Traffic Task Manager/Engineer.* Responsibilities included the management of the traffic team for the design of a set of stage construction and traffic handling plans along Avenue 44 in the City of Indio. Michael Baker provided and is currently preparing mapping services for the Terra Lago Four Seasons project consisting of an ultimate build-out of 827 residential, single-family lots. Terra Lago is being built over several phases with the first phases including seven separate final maps that were prepared and recorded within the City of Indio. Michael Baker was responsible for attending project meetings and preparing final tract maps, ALTA surveys, and various plats and legal descriptions to assist the developer with the Bureau of Real Estate (BRE) and Department of Real Estate (DRE). Several additional mapping items were necessary for the delivery of various construction documents, including temporary construction easements and exhibits regarding encroachment permits through the Coachella Valley Water District, Valley Sanitary District, and the Bureau of Reclamation.

RIGHT OF WAY / SURVEY / MAPPING

Loran Chick, PLS, PSM



Mr. Chick is experienced in field surveying and office mapping. As survey manager, he is responsible for survey support, calculations, coordination and supervision of all field and office operations. With a broad knowledge of title research, map preparation including right-of-way documents and legal descriptions. His experience includes boundary, topographic, control, monitoring, 3D modeling, construction and photogrammetric surveys. Mr. Chick is experienced in using various types of surveying equipment which includes GPS, robotic total stations, CAD programs, computers and data collection surveying software on various platforms.

Years with
Michael Baker **3**

Years
experience **31**

Availability
for this project **70%**

RELEVANT EXPERIENCE

Highway 67. Poplar Bluff, Missouri. **Registered Liaison Highway Surveyor.** Responsible for field surveys and right-of-way boundary surveys for design and construction of 10 miles of four lane highway. The compilation and research of the record documents affecting the parcels and also prepared the legal descriptions and exhibits associated with the right-of-way acquisitions and temporary construction easements.

Highway HH. Lake Ozark, Missouri. **Project Surveyor.** Responsible for the field survey and re-establishment of highway right-of-way for construction of improvements including curb and gutter, drainage structures and road widening.

Highway 50. Jefferson City, Missouri. **Project Surveyor.** Responsible for field surveys and right-of-way boundary surveys for design and construction of 10 miles of four lane highway West of Jefferson City. The compilation and research of the record documents affecting the parcels and also prepared the legal descriptions and exhibits associated with the right-of-way acquisitions and temporary construction easements.

Highway 94. Jefferson City, Missouri. **Project Surveyor.** Responsible for field surveys and

mapping of Archeological surveys of an Indian settlement along the Missouri River bottoms next to the expanding road corridor. This work was in conjunction with Archeologists and mapping artifacts as they were found in the field.

Highway 50 and 65 Intersection. Sedalia, Missouri. **Project Surveyor.** Responsible for field surveys and right-of-way boundary surveys for the design and construction of the intersection. The project added turning lanes and widened the roadway for a quarter mile in all directions including adding curb and gutter and drainage improvements.

Photogrammetry Projects. Iowa Department of Transportation. **Photogrammetry Project Manager.** Responsible for Project Management of the photogrammetric flights and coordination with the Iowa DOT Surveyors to provide the imagery for mapping each project area. From 2015 to 2018, each year there was an average of 75 project areas to be captured for control and mapping varying from 1 mile to 50 miles in length.

Missouri Baptist University. Creve Coeur, Missouri. **Photogrammetry Project Manager.** Responsible for the Project Management of the flight, survey control, mapping and file delivery for the 80 acre site to add roadways, parking lots and

Michael Baker
INTERNATIONAL

Location
Palm Desert, CA

Education
Certificate, 2015, Project Management, Saint Louis University

B.S., 1988, Business Management, Northwest Missouri State University

Licenses/Certifications
Professional Land Surveyor, Missouri, 2001, 2001001907

Professional Surveyor and Mapper, Florida, 2017, FL LS7148

Current Commitments

- Coachella Valley Water District, CVWD NPW Pipeline Package &2 | 5%
- City of Palm Desert, Cook Street Monument Rehab | 5%
- College of the Desert, Indio Child Development center, Indio, CA | 10%
- ANSER Advisory, CV Link, Palm Springs, Cathedral City, Palm Desert, La Quinta, Indio, and Coachella, CA | 10%

buildings for future use.

Missouri Department of Transportation Project Sites. *St Louis County, Missouri.* **Photogrammetry Project Manager.** Responsible for the Project Management of the flights (Orthos and LiDAR), survey control, mapping and file delivery for 7 project areas of 8 to 12 miles in length. The project improvements included widening road lanes, turning lanes, drainage structures and some curb and gutter at some intersections.

Newton County Mitigation Sites. *Newton County, Missouri.* **Photogrammetry Project Manager.** Responsible for Project Management of the flights (Orthos and LiDAR), survey control, mapping and file delivery for 30 project areas ranging in size from 10 acres to 500 acres.

Metropolitan St Louis Sewer District Impervious Mapping. *St Louis County, Missouri.* **Photogrammetry Project Manager.** Responsible for the Project Management for the coordination of the flight, survey control, aerotriangulation, mapping and file delivery for 526 square miles within the MSD project area. The Impervious Mapping project is to map the houses, buildings, roads, parking lots and any feature that would change the rate of water absorption for rain runoff that could cause flooding.

Corps of Engineers Mississippi Levee Project. *St Joseph, Louisiana.* **Photogrammetry Project Manager.** Responsible for the Project Management for the coordination of the flights (Orthos and LiDAR), survey control, aerotriangulation, mapping and file delivery for 20 miles of levee improvements along the Mississippi River.

RIGHT OF WAY / SURVEY / MAPPING

Steven Chi, PLS



Mr. Chi has surveying experience including office management and field crew coordination. He is responsible for construction staking of highways and major land development projects, aerial and conventional topographic mapping, surface modeling, earth volume analysis, and field-to-finish data collection. He has worked in numerous disciplines of land surveying, including boundary, airport runway staking, tunnel alignment, profile staking and verification, static and mobile LiDAR applications, control networks, settlement and deformation, cadastral mapping, and geophysical surveys. Mr. Chi has managed projects within both the public and private sectors and

brings together the most relevant surveying technologies and personnel to complete each project on time and within budget.

Years with
Michael Baker **3**

Years
experience **35**

Availability
for this project **25%**

RELEVANT EXPERIENCE

Coachella Valley Link Construction Surveying, Coachella Valley, California.

Anser Advisory, LLC. [Surveyor](#).

Responsible for all construction phase of the project. Review PG Plans and CAD files for trail alignments and aerial topography maps. Calculation of pedestrian path alignments, RG slopes, bridge piers, abutments and bridge deck, visitor center for construction staking. Managed CAD files, revised plan sets, RFIs and construction documents. Processed CSP (Conc Slope Protection) topo/as-built and calculated clearance to designed pathway. Michael Baker is providing construction surveying services for the Coachella Valley Link (CV Link), a 40-mile, valley-wide pathway accessible to bicyclists, pedestrians, and low-speed electric vehicles. Michael Baker's services include project control points, clearing limits, rough grade, slope stakes, back-cut stakes, backfill stakes, bridge layout stakes, curb and gutter stakes, monument perpetuation, filing of appropriate records per Section 8771 B&P, as well as office calculations and management. All work will comply with Caltrans Survey Manual Chapter 12.

Colgreen Site Addition. *Imperial Irrigation District.* [Surveyor](#). Processed topo data and prepared topographical survey. Analyzed found monuments, calculations and prepared boundary for record of survey map.

CVWD Irr Lat 123.45-1.3-2.8. *Coachella Valley Water District.* [Surveyor](#).

Responsible for preparing right-of-way maps for sanitary sewer lateral replacement. Drafted recorded maps,

analyzed and calculated boundary information.

CVWD TO 8 Irr Lat 102.3 Rplc.

Coachella Valley Water District.

[Surveyor](#). Responsible for preparing right-of-way maps for sanitary sewer lateral replacement. Drafted recorded maps, analyzed and calculated boundary information.

FY 2020-2021 Non-Potable Water Pipeline Design Project.

Coachella Valley Water District. [Surveyor](#).

Responsible for preparing C/L monument search maps for field crews. Drafted recorded maps, analyzed found monument data, prepared right-of-way maps and parcel maps for NPW pipeline design.

HDWD Package D Surveying.

Hi-Desert Water District. [Surveyor](#).

Responsibilities include compiled sewer manhole data and alignments, detailed plans for design manhole data, calculated invert elevations and CAD drafted pipe alignments and locations.

R_HDWD PKG C12-26-17.Hi-Desert Water District.

[Surveyor](#). [Responsible for preparing record drawings for sanitary sewer manholes as-built surveys](#). As-built information SSMH rim and invert elevations, flow directions, locations and deviations. Prepared right-of-way maps with record map and final monumentation data for the 29 Palms area, four sections in T1N, R6E and two sections in T1S, R6E.

Salton Sea Species Conservation Habitat Project, Riverside County, California. *State of California.* [Surveyor](#). Responsible for calculations of RG

Michael Baker
INTERNATIONAL

Location

Palm Desert, CA

Licenses/ Certifications

Professional
Land Surveyor,
California, 2010,
8860

Current Commitments

- Coachella Valley Water District, CVWD NPW Pipeline Package &2 | 50%
- City of Indian Wells, Warner Trail Street Improvement | 25%

Slope and alignments for 26-miles of perimeter berms, interceptor ditches and causeway. Managed project information, revisions, CAD files and plan sets. Michael Baker is providing construction surveying services, including automated machine grading (AMG) control, slope staking, stakes contour grading, finish grade stakes, interim and final grade certifications, and as-built mapping for this 4,100-acre wetlands design-build project on the Salton Sea's playa near the mouth of the highly polluted New River. This project will build ponds and wetlands along the small delta to provide wildlife habitat and suppress dust.

Southern California Edison Survey Services, California. *Southern California Edison Company.* [GIT Analyst.](#) Prepared legal description and drafted easement plat. Michael Baker is providing task-order engineering services for Southern California Edison. As the only approved UAS provider for its survey group, Michael Baker performs land surveying, photogrammetry, and LiDAR, including ground control and aerial targets, aerial planning and flight, mobile and terrestrial scanning, and acquisition, processing, and mapping services. It also provides underground research, mapping, potholing services, base maps, encroachment surveys, parcel maps, construction staking, underground research.

Southern California Edison Survey Map and Aerial Project, Lee Vining, California. *Southern California Edison Company.* [Surveyor.](#) Prepared topographical map. Michael Baker provided engineering services for boundary, aerial, and ground topographic surveys depicting Southern California Edison facilities in relation to public and private property in the foothills north of Lee Vining.

Sundance PA14 Basin. *Pardee Homes.* [GIT Analyst.](#) Prepared topographical map.

The Thermal Club Project, Thermal, California. *Thermal Operating Company, LLC.* [Surveyor.](#) Prepared topographic survey. Michael Baker is currently providing construction surveying services for The Thermal Club, a premier private motorsports facility. In addition to 4.5 miles of members-only racetrack, the Club facilities will include over 200 Founders Lots, a Clubhouse and Village unrivaled in the motorsports world, and will rank among the best of private clubs of any type. The project encompasses 530 acres in Riverside County.

Aliso Canyon, Rancho Santa Fe, California. *San Diego County.* [Surveyor.](#) Responsible for preparing legal description and drafting waterline easement plat.

ALTIS Individual Lot Analysis. *Pardee Homes.* [Surveyor.](#) Prepared centerline monument tie sheets.

Betty Ford Center Expansion. *Hazelden Betty Ford Foundation.* [Surveyor.](#) Prepared topographical map.

Borrego Medical. *Tower Energy.* [Surveyor.](#) Prepared topographical map.

PA 31 Surveying. *Pardee Homes.* [Surveyor.](#) Responsible for preparing final monumentation tie sheets and submittal package.

PA 33 Surveying. *Pardee Homes.* [Surveyor.](#) Prepared centerline ties.

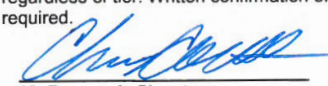


EXHIBIT 10-01



EXHIBIT 10-01 CONSULTANT PROPOSAL DBE COMMITMENT

1. Local Agency: Coachella Valley Association of Governments 2. Contract DBE Goal: 14%
 3. Project Description: Flood and Blowsand Road Improvement
 4. Project Location: Coachella Valley, CA
 5. Consultant's Name: Michael Baker International, Inc. 6. Prime Certified DBE:

7. Description of Work, Service, or Materials Supplied	8. DBE Certification Number	9. DBE Contact Information	10. DBE %
Cogstone Resource Management, Inc. Cultural Resource Assessment	CUCP #49374	Molly Valasik; 1518 W. Taft Avenue ; Orange, CA 92865; 714-974-8300	0.50
Monument ROW Right-of-Way	CUCP# 46456	Amber Costello; 200 Spectrum Center, Suite 300, Irvine, CA 9261; 562.260.0507	13.50
Earth Mechanics, Inc. Geotech	CUCP #6956	Alaresh Thuraiajah, PE, GE; 17800 Newhope St, Ste B; Fountain Valley, CA 92708;	6.50
Local Agency to Complete this Section		11. TOTAL CLAIMED DBE PARTICIPATION	20.50 %
17. Local Agency Contract Number: _____	18. Federal-Aid Project Number: _____		
Consultant's Ranking after Evaluation: _____ Local Agency certifies that all DBE certifications are valid and information on this form is complete and accurate.		IMPORTANT: Identify all DBE firms being claimed for credit, regardless of tier. Written confirmation of each listed DBE is required.	
21. Local Agency Representative's Signature _____	22. Date _____	 12. Preparer's Signature	08/16/2022 13. Date
23. Local Agency Representative's Name _____	24. Phone _____	Christopher Alberts 14. Preparer's Name	15. Phone _____
25. Local Agency Representative's Title _____		Vice President 16. Preparer's Title	

DISTRIBUTION: Original – Included with consultant's proposal to local agency.

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EXHIBIT 10-Q



EXHIBIT 10-Q DISCLOSURE OF LOBBYING ACTIVITIES

COMPLETE THIS FORM TO DISCLOSE LOBBYING ACTIVITIES PURSUANT TO 31 U.S.C. 1352

<p>1. Type of Federal Action:</p> <p><input type="checkbox"/> a. contract <input type="checkbox"/> b. grant <input type="checkbox"/> c. cooperative agreement <input type="checkbox"/> d. loan <input type="checkbox"/> e. loan guarantee <input type="checkbox"/> f. loan insurance</p>	<p>2. Status of Federal Action:</p> <p><input checked="" type="checkbox"/> a. bid/offer/application <input type="checkbox"/> b. initial award <input type="checkbox"/> c. post-award</p>	<p>3. Report Type:</p> <p><input checked="" type="checkbox"/> a. initial <input type="checkbox"/> b. material change</p> <p style="text-align: right;">For Material Change Only: year _____ quarter _____ date of last report _____</p>
<p>4. Name and Address of Reporting Entity</p> <p><input checked="" type="checkbox"/> Prime <input type="checkbox"/> Subawardee Tier _____, if known</p> <p>Congressional District, if known _____</p>	<p>5. If Reporting Entity in No. 4 is Subawardee, Enter Name and Address of Prime:</p> <p>Congressional District, if known _____</p>	
<p>6. Federal Department/Agency:</p>	<p>7. Federal Program Name/Description:</p> <p>CFDA Number, if applicable _____</p>	
<p>8. Federal Action Number, if known:</p>	<p>9. Award Amount, if known:</p>	
<p>10. Name and Address of Lobby Entity (If individual, last name, first name, MI)</p> <p style="text-align: center;">(attach Continuation Sheet(s) if necessary)</p>	<p>11. Individuals Performing Services (including address if different from No. 10) (last name, first name, MI)</p> <p style="text-align: center;">(attach Continuation Sheet(s) if necessary)</p>	
<p>12. Amount of Payment (check all that apply)</p> <p>\$ _____ <input type="checkbox"/> actual <input type="checkbox"/> planned</p>	<p>14. Type of Payment (check all that apply)</p> <p><input type="checkbox"/> a. retainer <input type="checkbox"/> b. one-time fee <input type="checkbox"/> c. commission <input type="checkbox"/> d. contingent fee <input type="checkbox"/> e. deferred <input type="checkbox"/> f. other, specify _____</p>	
<p>13. Form of Payment (check all that apply):</p> <p><input type="checkbox"/> a. cash <input checked="" type="checkbox"/> b. in-kind; specify: nature _____ Value _____</p>	<p style="font-size: 24px; color: blue;">No Lobbying Activities to Report</p>	
<p>15. Brief Description of Services Performed or to be performed and Date(s) of Service, including officer(s), employee(s), or member(s) contacted, for Payment Indicated in Item 12: (attach Continuation Sheet(s) if necessary)</p>	<p>16. Continuation Sheet(s) attached: Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>17. Information requested through this form is authorized by Title 31 U.S.C. Section 1352. This disclosure of lobbying reliance was placed by the tier above when his transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to Congress semiannually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.</p>	
	<p>Signature: </p> <p>Print Name: <u>Christopher Alberts, PLS</u></p> <p>Title: <u>Vice President</u></p> <p>Telephone No.: <u>760-341-6110</u> Date: _____</p>	
<p>Federal Use Only:</p>	<p>Authorized for Local Reproduction Standard Form - LLL</p>	

Standard Form LLL Rev. 04-28-06

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EXHIBIT 10-Q DISCLOSURE

NOT APPLICABLE
FOR EARTH MECHANICS, INC.

OF LOBBYING ACTIVITIES

COMPLETE THIS FORM TO
ACTIVITIES PURSUANT TO 31

DISCLOSE LOBBYING
U.S.C. 1352

<p>1. Type of Federal Action:</p> <p><input checked="" type="checkbox"/> a. contract <input type="checkbox"/> b. grant <input type="checkbox"/> c. cooperative agreement <input type="checkbox"/> d. loan <input type="checkbox"/> e. loan guarantee <input type="checkbox"/> f. loan insurance</p>	<p>2. Status of Federal Action:</p> <p><input checked="" type="checkbox"/> a. bid/offer/application <input type="checkbox"/> b. initial award <input type="checkbox"/> c. post-award</p>	<p>3. Report Type:</p> <p><input checked="" type="checkbox"/> a. initial <input type="checkbox"/> b. material change</p> <p>For Material Change Only: year _____ quarter _____ date of last report _____</p>
<p>4. Name and Address of Reporting Entity</p> <p><input type="checkbox"/> Prime <input checked="" type="checkbox"/> Subawardee Tier _____, if known</p> <p>Congressional District, if known _____</p>	<p>5. If Reporting Entity in No. 4 is Subawardee, Enter Name and Address of Prime:</p> <p>Congressional District, if known _____</p>	
<p>6. Federal Department/Agency:</p>	<p>7. Federal Program Name/Description:</p> <p>CFDA Number, if applicable _____</p>	
<p>8. Federal Action Number, if known:</p>	<p>9. Award Amount, if known:</p>	
<p>10. Name and Address of Lobby Entity (If individual, last name, first name, MI)</p> <p>(attach Continuation Sheet(s) if necessary)</p>	<p>11. Individuals Performing Services (including address if different from No. 10) (last name, first name, MI)</p>	
<p>12. Amount of Payment (check all that apply)</p> <p>\$ _____ <input type="checkbox"/> actual <input type="checkbox"/> planned</p>	<p>14. Type of Payment (check all that apply)</p> <p><input type="checkbox"/> a. retainer <input type="checkbox"/> b. one-time fee <input type="checkbox"/> c. commission <input type="checkbox"/> d. contingent fee <input type="checkbox"/> e. deferred <input type="checkbox"/> f. other, specify _____</p>	
<p>13. Form of Payment (check all that apply):</p> <p><input type="checkbox"/> a. cash <input type="checkbox"/> b. in-kind; specify: nature _____ Value _____</p>		
<p>15. Brief Description of Services Performed or to be performed and Date(s) of Service, including officer(s), employee(s), or member(s) contacted, for Payment Indicated in Item 12:</p> <p>(attach Continuation Sheet(s) if necessary)</p>		
<p>16. Continuation Sheet(s) attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>		
<p>17. Information requested through this form is authorized by Title 31 U.S.C. Section 1352. This disclosure of lobbying reliance was placed by the tier above when his transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to Congress semiannually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.</p>		
		<p>Signature: </p> <p>Print Name: <u>Alahesh Thurairajah, PE, GE</u></p> <p>Title: <u>Principal</u></p> <p>Telephone No.: <u>714-751-3826</u> Date: <u>8/4/2022</u></p>
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EXHIBIT 10-Q DISCLOSURE OF LOBBYING ACTIVITIES

COMPLETE THIS FORM TO DISCLOSE LOBBYING ACTIVITIES PURSUANT TO 31 U.S.C. 1352

<p>1. Type of Federal Action:</p> <p><input type="checkbox"/> a. contract <input type="checkbox"/> b. grant <input type="checkbox"/> c. cooperative agreement <input type="checkbox"/> d. loan <input type="checkbox"/> e. loan guarantee <input type="checkbox"/> f. loan insurance</p>	<p>2. Status of Federal Action:</p> <p><input type="checkbox"/> a. bid/offer/application <input type="checkbox"/> b. initial award <input type="checkbox"/> c. post-award</p>	<p>3. Report Type:</p> <p><input type="checkbox"/> a. initial <input type="checkbox"/> b. material change</p> <p>For Material Change Only: year ____ quarter ____ date of last report _____</p>
<p>4. Name and Address of Reporting Entity</p> <p><input type="checkbox"/> Prime <input type="checkbox"/> Subawardee Tier _____, if known</p> <p>Congressional District, if known _____</p>	<p>5. If Reporting Entity in No. 4 is Subawardee, Enter Name and Address of Prime:</p> <p>Congressional District, if known _____</p>	
<p>6. Federal Department/Agency:</p>	<p>7. Federal Program Name/Description:</p> <p>CFDA Number, if applicable _____</p>	
<p>8. Federal Action Number, if known:</p>	<p>9. Award Amount, if known:</p>	
<p>10. Name and Address of Lobby Entity (If individual, last name, first name, MI)</p>	<p>11. Individuals Performing Services (including address if different from No. 10) (last name, first name, MI)</p>	
<p>(attach Continuation Sheet(s) if necessary)</p>		
<p>12. Amount of Payment (check all that apply)</p> <p>\$ _____ <input type="checkbox"/> actual <input type="checkbox"/> planned</p>	<p>14. Type of Payment (check all that apply)</p> <p><input type="checkbox"/> a. retainer <input type="checkbox"/> b. one-time fee <input type="checkbox"/> c. commission <input type="checkbox"/> d. contingent fee <input type="checkbox"/> e. deferred <input type="checkbox"/> f. other, specify _____</p>	
<p>13. Form of Payment (check all that apply):</p> <p><input type="checkbox"/> a. cash <input type="checkbox"/> b. in-kind; specify: nature _____ Value _____</p>		
<p>15. Brief Description of Services Performed or to be performed and Date(s) of Service, including officer(s), employee(s), or member(s) contacted, for Payment Indicated in Item 12:</p> <p>(attach Continuation Sheet(s) if necessary)</p>		
<p>16. Continuation Sheet(s) attached: <input type="checkbox"/> Yes <input type="checkbox"/> No</p>		
<p>17. Information requested through this form is authorized by Title 31 U.S.C. Section 1352. This disclosure of lobbying reliance was placed by the tier above when his transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to Congress semiannually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.</p>		
		<p>Signature: <u>Molly Valasik</u></p> <p>Print Name: <u>Molly Valasik</u></p> <p>Title: <u>CEO/CFO</u></p> <p>Telephone No.: <u>714-974-8300</u> Date: <u>08/04/2022</u></p>
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EXHIBIT 10-Q DISCLOSURE OF LOBBYING ACTIVITIES

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<p>4. Name and Address of Reporting Entity</p> <p><input type="checkbox"/> Prime <input type="checkbox"/> Subawardee Tier _____, if known</p> <p>Congressional District, if known _____</p>	<p>5. If Reporting Entity in No. 4 is Subawardee, Enter Name and Address of Prime:</p> <p>Congressional District, if known _____</p>	
<p>6. Federal Department/Agency:</p>	<p>7. Federal Program Name/Description:</p> <p>CFDA Number, if applicable _____</p>	
<p>8. Federal Action Number, if known:</p>	<p>9. Award Amount, if known:</p>	
<p>10. Name and Address of Lobby Entity (If individual, last name, first name, MI)</p> <p style="text-align: center;">(attach Continuation Sheet(s) if necessary)</p>	<p>11. Individuals Performing Services (including address if different from No. 10) (last name, first name, MI)</p>	
<p>12. Amount of Payment (check all that apply)</p> <p>\$ _____ <input type="checkbox"/> actual <input type="checkbox"/> planned</p>	<p>14. Type of Payment (check all that apply)</p> <p><input type="checkbox"/> a. retainer <input type="checkbox"/> b. one-time fee <input type="checkbox"/> c. commission <input type="checkbox"/> d. contingent fee <input type="checkbox"/> e. deferred <input type="checkbox"/> f. other, specify _____</p>	
<p>13. Form of Payment (check all that apply):</p> <p><input type="checkbox"/> a. cash <input type="checkbox"/> b. in-kind; specify: nature _____ Value _____</p>		
<p>15. Brief Description of Services Performed or to be performed and Date(s) of Service, including officer(s), employee(s), or member(s) contacted, for Payment Indicated in Item 12:</p> <p style="text-align: center;">(attach Continuation Sheet(s) if necessary)</p>		
<p>16. Continuation Sheet(s) attached: Yes <input type="checkbox"/> No <input type="checkbox"/></p>		
<p>17. Information requested through this form is authorized by Title 31 U.S.C. Section 1352. This disclosure of lobbying reliance was placed by the tier above when his transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to Congress semiannually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.</p>		
		<p>Signature: _____</p> <p>Print Name: <u>Amber Costello</u></p> <p>Title: <u>President</u></p> <p>Telephone No.: <u>562.260.0507</u> Date: <u>8/2/2022</u></p>
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EXHIBIT 10-Q DISCLOSURE OF LOBBYING ACTIVITIES

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<p>4. Name and Address of Reporting Entity</p> <p><input type="checkbox"/> Prime <input type="checkbox"/> Subawardee Tier _____, if known</p> <p>Congressional District, if known _____</p>	<p>5. If Reporting Entity in No. 4 is Subawardee, Enter Name and Address of Prime:</p> <p>Congressional District, if known _____</p>	
<p>6. Federal Department/Agency: CVAG</p>	<p>7. Federal Program Name/Description:</p> <p>CFDA Number, if applicable _____</p>	
<p>8. Federal Action Number, if known:</p>	<p>9. Award Amount, if known:</p>	
<p>10. Name and Address of Lobby Entity (If individual, last name, first name, MI)</p> <p style="text-align: center;">(attach Continuation Sheet(s) if necessary)</p>	<p>11. Individuals Performing Services (including address if different from No. 10) (last name, first name, MI)</p>	
<p>12. Amount of Payment (check all that apply)</p> <p>\$ _____ <input type="checkbox"/> actual <input type="checkbox"/> planned</p>	<p>14. Type of Payment (check all that apply)</p> <p><input type="checkbox"/> a. retainer <input type="checkbox"/> b. one-time fee <input type="checkbox"/> c. commission <input type="checkbox"/> d. contingent fee <input type="checkbox"/> e. deferred <input type="checkbox"/> f. other, specify _____</p>	
<p>13. Form of Payment (check all that apply):</p> <p><input type="checkbox"/> a. cash <input type="checkbox"/> b. in-kind; specify: nature _____ Value _____</p>		
<p>15. Brief Description of Services Performed or to be performed and Date(s) of Service, including officer(s), employee(s), or member(s) contacted, for Payment Indicated in Item 12:</p> <p style="text-align: center;">(attach Continuation Sheet(s) if necessary)</p>		
<p>16. Continuation Sheet(s) attached: <input type="checkbox"/> Yes <input type="checkbox"/> No</p>		
<p>No Lobbying Activities to Report</p>		
<p>17. Information requested through this form is authorized by Title 31 U.S.C. Section 1352. This disclosure of lobbying reliance was placed by the tier above when his transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to Congress semiannually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.</p>		
<p>Signature:  Print Name: <u>Andrew D. Runk</u> Title: <u>Regional Bridge Consultant</u> Telephone No.: <u>303-241-8154</u> Date: <u>Aug. 15, 2022</u></p>		
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DIR REGISTRATION CERTIFICATION

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Search Returned 1 Records

Wed Feb 23 19:02:08 PST 2022

Query Criteria

Certification Types: DBE
Firm ID: 6956

Firm ID	6956
DBA Name	EARTH MECHANICS, INC.
Firm Name	EARTH MECHANICS, INC.
Address Line1	17800 NEWHOPE STREET, SUITE B
Address Line2	
City	FOUNTAIN VALLEY
State	CA
Zip Code1	92708
Zip Code2	
Mailing Address Line1	
Mailing Address Line2	
Mailing City	
Mailing State	
Mailing Zip Code1	
Mailing Zip Code2	
Certification Type	DBE
EEmail	d.casad@earthmech.com
Contact Name	HUBERT LAW
Area Code	714
Phone Number	751-3826
Extension	
Alt Area Code	
Alt Phone Number	
Extension	
Fax Area Code	714
Fax Phone Number	751-3928
Agency Name	DEPARTMENT OF TRANSPORTATION
Counties	01; 02; 03; 04; 05; 06; 07; 08; 09; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 25; 26; 27; 28; 29; 30; 32; 33; 34; 35; 36; 37; 38; 39; 40; 41; 42; 43; 44; 45; 46; 47; 48; 49; 50; 51; 52; 53; 54; 55; 56; 57; 58;
Districts	01; 02; 03; 04; 05; 06; 07; 08; 09; 10; 11; 12;
DBE NAICS	541330; 541380; 541620;
ACDBE NAICS	
Work Codes	C8707 FEASIBILITY STUDIES; C8715 CONSULTANT, ENGINEERING; C8716 ARCHITECTURAL ENGINEER; C8720 CIVIL ENGINEERING; C8730 SAFETY STUDIES; I8730 RESEARCH & TESTING SERVICES; I8734 LABORATORY TESTING AND ANALYSIS;
Licenses	EC Civil Engineer; EGT Geotechnical Engineer;
Trucks	
Gender	M
Ethnicity	ASIAN SUBCONTINENT
Firm Type	DBE



State of California

Department of Industrial Relations

Back to DIR>> (<https://www.dir.ca.gov/>)

Contractor Information

Legal Entity Name EARTH MECHANICS, INC.
 Corporation
 Active
 1000018020
 07/01/20
 06/30/23
 17800 NEWHOPE STREET, SUITE B FOUNTAIN VALLEY 92708 CA United States of America
 17800 NEWHOPE STREET, SUITE B FOUNTAIN VALLEY 92708 CA United States of America
 d.casad@earthmech.com
License Number (s)
 Other:GE 2090
 Other:PE 39389

Legal Entity Information

Corporation Entity Number: 1000018020
Federal Employment Identification Number: 330342617
President Name: KANDIAH ARULMOLI
Vice President Name: HUBERT LAW
Treasurer Name: HUBERT LAW
Secretary Name: KANDIAH ARULMOLI
CEO Name:

Agency for Service:

Agent of Service Name: LINO CHEANG
Agent of Service Mailing Address: 17800 NEWHOPE STREET, SUITE B FOUNTAIN VALLEY 92708 CA United States of America

Worker's Compensation

Do you lease employees through Professional Employer Organization (PEO)?: No

Please provide your current worker's compensation insurance information below:

PEO Information	Name	Phone	Email
PEO			
PEO			
PEO			

Insured by Carrier
Policy Holder Name: EARTH MECHANICS, INC.
Insurance Carrier: NATIONAL FIRE INSURANCE COMPANY OF HARTFORD
Policy Number: 6021235261
Inception date: 09/01/16
Expiration Date: 09/01/20

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Site Map (<https://www.dir.ca.gov/sitemap/sitemap.html>)

<https://cadir.secure.force.com/ContractorSearch/registrationSearchDetails?id=a1Rt000000...> 6/19/2020



Desiree Martinez
Cogstone Resource Management, Inc. DBA Cogstone
1518 W Taft Avenue
Orange, CA 92865 [map]

February 14, 2022
File #:49374

Subject: Disadvantaged Business Enterprise (DBE) Certification Approval

Dear Ms. Martinez :

We are pleased to advise you that after careful review of your application and supporting documentation, the **California Department of Transportation (Caltrans)** has determined that your firm meets eligibility standards to be certified as a Disadvantaged Business Enterprise (DBE) as required under the U.S. Department of Transportation (U.S. DOT) Regulations 49 CFR Part 26. This certification is also recognized by all USDOT agencies of California.

Your firm will be listed in the California Unified Certification Program (CUCP) database of certified DBEs under the following specific area(s) of expertise that you have identified on the NAICS Codes form the Application Package:

CA WCC C8835: ARCHEOLOGY
CA WCC C8860: PALEONTOLOGY
NAICS 541620: ENVIRONMENTAL CONSULTING SERVICES
NAICS 712120: HISTORICAL SITES

Your DBE certification applies only for the above code(s). You may review your firm's information in the California Unified Certification Program's (CUCP) DBE database which can be accessed at the CUCP website at <https://californiaucp.dbesystem.com/>. Any additions and revisions must be submitted to Caltrans for review and approval.

In order to assure continuing DBE status, you must submit an Annual Update Declaration form, along with supporting documentation. Based on your annual submission that no change in ownership and control has occurred, or if changes have occurred, they do not affect your firm's DBE standing, the DBE certification of your firm will continue until or unless it is removed by our agency.

Also, should any changes occur that could affect your certification status prior to receipt of the Annual Update Declaration, such as changes in your firm's name, business/ mailing address, ownership, management or control, or failure to meet the applicable business size standards or personal net worth standard, please notify us immediately. Failure to submit forms and/or change of information will be deemed a failure to cooperate under Section 26.109 of the Regulations.

Caltrans reserves the right to withdraw this certification if at any time it is determined that it was knowingly obtained by false, misleading, or incorrect information. DBE certification is subject to review at any time. The firm thereby consents to the examination of its books, records, and documents by Caltrans.

For information on California Department of Transportation (Caltrans) contracting opportunities, please visit our website Office of Civil Rights at <https://dot.ca.gov/programs/procurement-and-contracts/contract-with-caltrans>.

Congratulations, and thank you for your interest in the DBE Program. I wish you every business success and look forward to hearing from you if I may be of any assistance to you in this regard.

Sincerely,

Curtis Williams



Metro

Los Angeles County
Metropolitan Transportation Authority

One Gateway Plaza
Los Angeles, CA 90012-2952

213.922.2000 Tel
metro.net



CALIFORNIA UNIFIED CERTIFICATION PROGRAM

March 11, 2019

CUCP# 46456
Metro File #8144

Ms. Amber Costello
Monument ROW

Subject: Disadvantaged Business Enterprise Certification

Dear Ms. Amber Costello:

We are pleased to advise you that after careful review of your application and supporting documentation, the Los Angeles County Metropolitan Transportation Authority (Metro) has determined that your firm meets the eligibility standards to be certified as a Disadvantaged Business Enterprise (DBE) as required under the U.S. Department of Transportation (U.S. DOT) Regulation 49 CFR Part 26, as amended. This certification will be recognized by all of the U.S. DOT recipients in California. Your firm will be listed in the California Unified Certification Program (CUCP) database of certified DBEs under the following specific area(s) of expertise that you have identified on the NAICS codes form of the application package:

NAICS 531390: OTHER ACTIVITIES RELATED TO REAL ESTATE
NAICS 541618: OTHER MANAGEMENT CONSULTING SERVICES

Your DBE certification applies only for the above code(s). You may review your firm's information in the CUCP DBE database which can be accessed at the CUCP website at www.californiaucp.org. Any additions and revisions must be submitted to Metro for review and approval.

In order to ensure your continuing DBE status, you are required to submit an annual update along with supporting documentation. If no changes are noted, then your DBE status remains current. If there are changes, Metro will review to determine continued DBE eligibility. Please note, your DBE status remains in effect unless Metro notifies you otherwise.

Also, should any changes occur that could affect your certification status prior to receipt of the annual update, such as changes in your firm's name, business/ mailing address, ownership, management or control, or failure to meet the applicable business size standards or personal net worth standard, please notify Metro immediately. Failure to submit forms and/or change of information will be deemed a failure to cooperate under Section 26.109 of the Regulations.

Metro reserves the right to withdraw this certification if at any time it is determined that it was knowingly obtained by false, misleading, or incorrect information. Your DBE certification is subject to review at any time. The firm thereby consents to the examination of its books, records and documents by Metro.

Congratulations, and thank you for your interest in the DBE program. Should you have any questions, please contact us at (213) 922-2600. For information on Metro contracting opportunities, please visit our website at www.metro.net.

Sincerely,

Shirley Wong
Principal Certification Officer
Diversity & Economic Opportunity Department

IRAN CONTRACTING ACT CERTIFICATION

Iran Contracting Act Certification


Instructions: Complete, as applicable, and submit with proposal.

Prior to bidding on, submitting a proposal or executing a contract or renewal for a State of California contract for goods or services of one million dollars (\$1,000,000) or more, a vendor must either: a) certify it is **not** on the current list of persons engaged in investment activities in Iran created by the California Department of General Services ("DGS") pursuant to Public Contract Code Section 2203(b) and is not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person, for 45 days or more, if that other person will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS; or b) demonstrate it has been exempted from the certification requirement for that solicitation or contract pursuant to Public Contract Code Section 2203(c) or (d). The DGS list of entities prohibited from contracting with public entities in California per the Iran Contracting Act, 2010, can be found at: Department of General Services, Procurement Division, Iran Contracting Act List (<https://www.dgs.ca.gov/PD/Resources/Page-Content/Procurement-Division-Resources-List-Folder/List-of-Ineligible-Businesses>).

To comply with this requirement, please insert your vendor or financial institution name and Federal ID Number (if available) and complete one of the options below. Please note, California law establishes penalties for providing false certifications, including civil penalties equal to the greater of two hundred fifty thousand dollars (\$250,000) or twice the amount of the contract for which the false certification was made; contract termination; and three (3) year ineligibility to bid on contracts (Public Contract Code Section 2205).

OPTION #1 - CERTIFICATION

I, the official named below, certify I am duly authorized to execute this certification on behalf of the vendor/financial institution identified below, and the vendor/financial institution identified below is not on the current list of persons engaged in investment activities in Iran created by DGS and is not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person/vendor for 45 days or more if that other person/vendor will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS.

Print Vendor Name Financial Institution Michael Baker International, Inc.	Federal ID Number (or N/A) 25-1228638
By (Authorized Signature) 	
Printed Name and Title of Person Signing Christopher Alberts, Office Executive	
Date Executed August 16, 2022	Executed in the County and State of Riverside County, California

OPTION #2 - EXEMPTION

Pursuant to Public Contract Code Sections 2203(c) and (d), a public entity may permit a vendor/financial institution engaged in investment activities in Iran on a case-by-case basis to be eligible for, or to bid on, submit a proposal for, or enters into or renews, a contract for goods and services.

If you have obtained an exemption from the certification requirement under the Iran Contracting Act, please fill out the information below, and attach documentation demonstrating the exemption approval.

Print Vendor Name Financial Institution	Federal ID Number (or N/A)
By (Authorized Signature)	
Printed Name and Title of Person Signing	
Date Executed	

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STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION
IRAN CONTRACTING ACT CERTIFICATION
 ADM-0078 (REV 06/2022)

ATTACHMENT _____
Contract Number _____
Page 1 of 1

Iran Contracting Act Certification


Instructions: Complete, as applicable, and submit with proposal.

Prior to bidding on, submitting a proposal or executing a contract or renewal for a State of California contract for goods or services of one million dollars (\$1,000,000) or more, a vendor must either: a) certify it is **not** on the current list of persons engaged in investment activities in Iran created by the California Department of General Services ("DGS") pursuant to Public Contract Code Section 2203(b) and is not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person, for 45 days or more, if that other person will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS; or b) demonstrate it has been exempted from the certification requirement for that solicitation or contract pursuant to Public Contract Code Section 2203(c) or (d). The DGS list of entities prohibited from contracting with public entities in California per the Iran Contracting Act, 2010, can be found at: Department of General Services, Procurement Division, Iran Contracting Act List (<https://www.dgs.ca.gov/PD/Resources/Page-Content/Procurement-Division-Resources-List-Folder/List-of-Ineligible-Businesses>).

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OPTION #1 - CERTIFICATION

I, the official named below, certify I am duly authorized to execute this certification on behalf of the vendor/financial institution identified below, and the vendor/financial institution identified below is not on the current list of persons engaged in investment activities in Iran created by DGS and is not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person/vendor for 45 days or more if that other person/vendor will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS.

Print Vendor Name Financial Institution Cogstone Resource Management, Inc. (Cogstone)	Federal ID Number (or N/A) 33-0963691
By (Authorized Signature) 	
Printed Name and Title of Person Signing Molly Valasik, CEO/CFO	
Date Executed August 4, 2022	Executed in the County and State of Orange, CA

OPTION #2 - EXEMPTION

Pursuant to Public Contract Code Sections 2203(c) and (d), a public entity may permit a vendor/financial institution engaged in investment activities in Iran on a case-by-case basis to be eligible for, or to bid on, submit a proposal for, or enters into or renews, a contract for goods and services.

If you have obtained an exemption from the certification requirement under the Iran Contracting Act, please fill out the information below, and attach documentation demonstrating the exemption approval.

Print Vendor Name Financial Institution	Federal ID Number (or N/A)
By (Authorized Signature)	
Printed Name and Title of Person Signing	
Date Executed	

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STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION
IRAN CONTRACTING ACT CERTIFICATION
 ADM-0078 (REV 06/2022)

ATTACHMENT _____
Contract Number _____

Page 1 of 1

Iran Contracting Act Certification

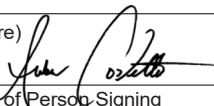
Instructions: Complete, as applicable, and submit with proposal.

Prior to bidding on, submitting a proposal or executing a contract or renewal for a State of California contract for goods or services of one million dollars (\$1,000,000) or more, a vendor must either: a) certify it is **not** on the current list of persons engaged in investment activities in Iran created by the California Department of General Services ("DGS") pursuant to Public Contract Code Section 2203(b) and is not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person, for 45 days or more, if that other person will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS; or b) demonstrate it has been exempted from the certification requirement for that solicitation or contract pursuant to Public Contract Code Section 2203(c) or (d). The DGS list of entities prohibited from contracting with public entities in California per the Iran Contracting Act, 2010, can be found at: Department of General Services, Procurement Division, Iran Contracting Act List (<https://www.dgs.ca.gov/PD/Resources/Page-Content/Procurement-Division-Resources-List-Folder/List-of-Ineligible-Businesses>).

To comply with this requirement, please insert your vendor or financial institution name and Federal ID Number (if available) and complete one of the options below. Please note, California law establishes penalties for providing false certifications, including civil penalties equal to the greater of two hundred fifty thousand dollars (\$250,000) or twice the amount of the contract for which the false certification was made; contract termination; and three (3) year ineligibility to bid on contracts (Public Contract Code Section 2205).

OPTION #1 - CERTIFICATION

I, the official named below, certify I am duly authorized to execute this certification on behalf of the vendor/financial institution identified below, and the vendor/financial institution identified below is not on the current list of persons engaged in investment activities in Iran created by DGS and is not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person/vendor for 45 days or more if that other person/vendor will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS.

Print Vendor Name Financial Institution	Federal ID Number (or N/A)
Monument ROW	83-1525252
By (Authorized Signature) 	
Printed Name and Title of Person Signing	
Amber Costello, President	
Date Executed	Executed in the County and State of
8/2/2022	Orange County, CA

OPTION #2 - EXEMPTION

Pursuant to Public Contract Code Sections 2203(c) and (d), a public entity may permit a vendor/financial institution engaged in investment activities in Iran on a case-by-case basis to be eligible for, or to bid on, submit a proposal for, or enters into or renews, a contract for goods and services.

If you have obtained an exemption from the certification requirement under the Iran Contracting Act, please fill out the information below, and attach documentation demonstrating the exemption approval.

Print Vendor Name Financial Institution	Federal ID Number (or N/A)
By (Authorized Signature)	
Printed Name and Title of Person Signing	
Date Executed	

ADA Notice For individuals with sensory disabilities, this document is available in alternate formats. For alternate format information, contact the Forms Management Unit at (916) 445-1233, TTY 711, or write to Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.



EXHIBIT 15-H
DBE INFORMATION - GOOD FAITH EFFORTS



EXHIBIT 15-H: PROPOSER/CONTRACTOR GOOD FAITH EFFORTS

Cost Proposal Due Date 08/16/2022 PE/CE

Federal-aid Project No(s). _____ Bid Opening Date 08/16/2022 CON

The CVAG established a Disadvantaged Business Enterprise (DBE) goal of 1,400 for this contract. The information provided herein shows the required good faith efforts to meet or exceed the DBE contract goal.

Proposers or bidders submit the following information to document their good faith efforts within five (5) calendar days from cost proposal due date or bid opening. Proposers and bidders are recommended to submit the following information even if the Exhibit 10-O1: Consultant Proposal DBE Commitments or Exhibit 15-G: Construction Contract DBE Commitment indicate that the proposer or bidder has met the DBE goal. This form protects the proposer’s or bidder’s eligibility for award of the contract if the administering agency determines that the bidder failed to meet the goal for various reasons, e.g., a DBE firm was not certified at bid opening, or the bidder made a mathematical error.

The following items are listed in the Section entitled “Submission of DBE Commitment” of the Special Provisions, **please attach additional sheets as needed:**

- A. The names and dates of each publication in which a request for DBE participation for this project was placed by the bidder (please attach copies of advertisements or proofs of publication):

Publications	Dates of Advertisement
The Daily Reporter	07/19/2022

- B. The names and dates of written notices sent to certified DBEs soliciting bids for this project and the dates and methods used for following up initial solicitations to determine with certainty whether the DBEs were interested (please attach copies of solicitations, telephone records, fax confirmations, etc.):

Names of DBEs Solicited	Date of Initial Solicitation	Follow Up Methods and Dates
Cogstone	08/03/2022	
Earth Mechanics, Inc.	08/03/2022	
Hernandez Environmental	08/03/2022	
Monument ROW	08/03/2022	

C. The items of work made available to DBE firms including those unbundled contract work items into economically feasible units to facilitate DBE participation. It is the bidder's responsibility to demonstrate that sufficient work to facilitate DBE participation in order to meet or exceed the DBE contract goal.

Items of Work	Proposer or Bidder Normally Performs Item (Y/N)	Breakdown of Items	Amount (\$)	Percentage Of Contract
Cultural	Yes			0.50%
Geotechnical	No			6.50%
Environmental	Yes			13.50%
	Pick			0.00%

D. The names, addresses and phone numbers of rejected DBE firms, the reasons for the bidder's rejection of the DBEs, the firms selected for that work (please attach copies of quotes from the firms involved), and the price difference for each DBE if the selected firm is not a DBE:

Names, addresses and phone numbers of rejected DBEs and the reasons for the bidder's rejection of the DBEs:

No response to ads. No rejections.

Names, addresses and phone numbers of firms selected for the work above:

E. Efforts (e.g. in advertisements and solicitations) made to assist interested DBEs in obtaining information related to the plans, specifications and requirements for the work which was provided to DBEs:

e-mailed RFP and phone conversations with each DBE to ensure complete understanding of roles.

- F. Efforts (e.g. in advertisements and solicitations) made to assist interested DBEs in obtaining bonding, lines of credit or insurance, necessary equipment, supplies, materials, or related assistance or services, excluding supplies and equipment the DBE subcontractor purchases or leases from the prime contractor or its affiliate:

N/A

- G. The names of agencies, organizations or groups contacted to provide assistance in contacting, recruiting and using DBE firms (please attach copies of requests to agencies and any responses received, i.e., lists, Internet page download, etc.):

Name of Agency/Organization	Method/Date of Contact	Results

- H. Any additional data to support a demonstration of good faith efforts:

While Michael Baker will achieve the 14% DBE goal for this project, we offer these supporting documents to demonstrate our good faith efforts.

CELEBRATING OVER 30 YEARS AS A SMALL FAMILY BUSINESS

C&S Publishing was founded in 1989 and is a family-owned and operated small business, DBE, SWBE and SMBE.

Proof of Publication Packet

THE DAILY REPORTER

Connecting contractors to construction bidding leads
8258 Scarlet Oak cir, Citrus Heights CA 95610
candspublishing@gmail.com / 916.729.5432

GOOD FAITH EFFORT AFFIRMATIVE ACTION OUTREACH SERVICE INCLUDES:

- Web posting
- Daily/Weekly Publishing in TDR
- TDR Plus Posting
- Emailing to our DBE/DVBE list
- Social Media Outreach
- Signed proof of publication for each newspaper
- Free logo placements
- All included in one price

IN OUR PACKETS

A Proof of Publication Statement(s) one for each newspaper in which your ad ran. You will find a copy of your ad along with our wet signature documenting the dates and publications in which your ad ran. These Proofs of Publication Statements are provided for you to use with your bid package to document your compliance with federal and state outreach requirements.



THE
DAILY
REPORTER

Thank you, for your business!

WWW.THEDAILYREPORTER.NET

C&S Publishing
8258 Scarlet Oak Cir
Citrus Heights, CA 95610
(916) 729-5432
candspublishing@gmail.com

Invoice 3224



BILL TO

Sherrie Gundlach
Michael Baker International
3536 Concours Street, Suite
100
Ontario, CA 91764

DATE
07/25/2022

PLEASE PAY
\$170.00

DUE DATE
08/24/2022

DATE	ACTIVITY	QTY	RATE	AMOUNT
07/19/2022	Good faith effort affirmative action advertisement RFP for Professional Engineering Services for the Western Coachella Valley Flood	1	170.00	170.00

The Daily Reporter newspaper
Sub bid Advertisement
Ad published July 19, 2022, through July 27, 2022
And

TOTAL DUE

\$170.00

The GSPS News
Sub bid Advertisement
Ad published July 19, 2022, through July 27, 2022

THANK YOU.

DBE, SWBE and SMBE.



**THE
DAILY
REPORTER**

The Daily Reporter

Founded in 1994, The Daily Reporter is a recognized minority-focused (MBE/WBE/SBE/DBE/DVBE) newspaper

On-line at www.TheDailyReporter.net

Publisher: C&S Publishing

PROOF OF PUBLICATION STATEMENT for The Daily Reporter Electronic Newspaper

The Daily Reporter newspaper is certified as both a Trade newspaper and also as a Focus paper. It is published in three editions, a Northern (California) State edition, a Southern (California) edition and a Statewide (California) Water edition. Advertisements are published continually in all three editions and/or a selection of the three newspapers from the date approved until the bid date.

Ads are also published online at www.TheDailyReporter.net. Ads are also sent out via Twitter, Facebook and Instagram. Ads are emailed directly to approximately 3,000 DBE/DVBE/SBE/MBE/WBE/OBE firms - list updated and expanded in May, 2022.

The following pages will include but not limited to all efforts made by C&S Publishing via *The Daily Reporter*.

C&S Publishing was founded in 1989 and is a family-owned and operated small business, DBE, SWBE and SMBE.

CERTIFICATION

I am over the age of eighteen, a citizen of the United States, and a resident of Sacramento County. I am not a party to or otherwise interested in the attached matter. I am the principal clerk of the publisher, C&S Publishing, who produces *The Daily Reporter Electronic Newspaper*. The *The Daily Reporter Electronic Newspaper* is published in the County of Sacramento. The notice, a printed copy of which is attached as Exhibit A, was set in type not smaller than nonpareil and was preceded by words describing the general character and terms of the notice printed in a black face type not smaller than nonpareil.

Exhibit A was published in the *The Daily Reporter* online at www.thedailyreporter.net

from 07-19-2022 to 07-27-2022

Exhibit A was published in the *The Daily Reporter (Northern edition) Electronic Newspaper* from

07-21-2022 _____

Exhibit A was published in the *The Daily Reporter (Water State Wide edition) Electronic Newspaper* from

07-22-2022 _____

I declare under penalty of perjury that the forgoing is true and correct and that the attached advertisement, Exhibit A, was affixed to this Proof of Publication by my own hand.

Executed on 07-25, 20 22 at Sacramento, California

Catherine Berlin

Catherine Berlin
Owner, *The Daily Reporter*



RANGER PIPELINES INC.

Utility & General Engineering Contractors
License Number 417995

REQUEST FOR QUOTES FROM CERTIFIED San Francisco Small & Micro-LBEs and SFPUC-LBEs SUBCONTRACTORS AND SUPPLIERS FOR:

CHANNEL FORCE MAIN INTERTIE

Contract No. WW-723

OWNER: San Francisco Public Utilities Commission

Engineer's Estimate: \$16,000,000

BID OPENING: 08/11/2022 @ 2PM

Subtrades include but are not limited to: Asphalt Paving, Concrete Flatwork, Concrete Base, Curb Ramps, Waterproofing, Electrical, Instrumentation & Controls, Geotechnical Instrumentation & Monitoring, Pipeline Welding, Special Inspections, Micropiles, Rebar, Fabricated Metals

Ranger Pipelines Inc. will supply information regarding plans and specifications, bonds, lines of credit, and/or insurance requirements upon request. To request these materials, email qbd@sfwater.org with this Contract No. WW-723, the firm name, full address, email address, phone number, copy of contractor's license or business card, and a copy of a government issued identification. Visit <https://webapps.sfpuc.org/bids/> for updates.

RANGER PIPELINES INCORPORATED

P.O. BOX 24109, SAN FRANCISCO, CA 94124

CONTACT: GRACE PRENDIVILLE

goodfaith@rangerpipelines.com

PHONE: (415) 822-3700 FAX: (415) 822-3703

AN EQUAL OPPORTUNITY EMPLOYER

Michael Baker

I N T E R N A T I O N A L

REQUEST FOR QUOTES FROM CERTIFIED DBE SUBCONTRACTORS FOR:

RFP for Professional Engineering Services for the Western Coachella Valley Flood and Blowsand Road Improvement Project, Phase 1

CVAG is requesting proposals to provide bridge/culvert structures design and roadway engineering, environmental studies and permits, geotechnical studies and report, right of way engineering, bid/award support, and construction support.

CVAG

Location: Coachella Valley, California.

Bid Date and Time: July 27, 2022, 10:00 AM

Trades/Services Requested for Teaming: Geotechnical and Right of Way Services

Michael Baker International

Send all responses to e-mail address.

Email: srg@mbakerintl.com

Contact Person: Sherrie Gundlach

AN EQUAL OPPORTUNITY EMPLOYER



PROOF OF PUBLICATION STATEMENT

for the

Golden State Plan Service News

The GSPS News – Northern Edition, is a regional newspaper covering Northern California, produced as a joint effort of the state’s Builders Exchanges working under the Golden State Plan Services umbrella organization.

The newspaper reaches the building and construction trades in Northern California, reaching collectively around 5,000 Exchange members and around 8,000 statewide contractors, architects, public works agencies and other plan providers.

The GSPS News – Northern Edition is published every Monday, 52-times a year, and can be viewed without cost at **www.GSpapers.com**. The paper reaches construction firms in 27 counties, from Sacramento to the Oregon Border.

The GSPS News – Northern Edition, is produced for the Golden State Plan Service by C&S Publishing, a DGS certified Small Business Enterprise (SBE Cert. #1605840). This newspaper is a “Trade Paper” in the building and construction trades.

Placer County Contractors Association, one of the thirteen participating plan rooms in the Golden State Plan Service.

The PCCA owns and operates The Placer County Contractors Association and Builders Exchange, along with The El Dorado County Builders Exchange. Serving the entire Sacramento Valley, our online planroom is stocked with projects that are verified as actually going to ground. We are not simply a database that lists everything we can find. Many of these other online only sources actually link back to our projects.

The PCCA planroom staff makes sure we are listed as plan holders, this insures that you get more than a line item showing that a project is out there, we provide the plans, bid documents, and update the projects with addenda and more. We manage the data, we don't simply list it.

Projects in our planroom range from road improvements, highways, parks and other public works projects, to hotels, hospitals, apartments, custom homes, remodels, tenant improvements, restaurants and more.

The PCCA networks with 18 plan rooms throughout the state of California to bring you access to projects and contractors anywhere you might need. Project owners and developers can submit projects anywhere in the state and have them distributed to a local planroom in our network to get local trades working.

Our plan rooms are available for our members to use as they are out of their office.

Wide open, spacious, well lit and comfortable, we don't pack you into a back room, make you rummage through dusty plans or squeeze you into hard dark booths. We provide comfortable seating, 46" monitors for viewing and measuring projects and the ability to print your estimates and documents on site.

Come by the PCCA today and see how we can help you grow your business. Our Roseville planroom is minutes away from downtown Sacramento, easy access, ample parking, has a spacious classroom as well as a full service plan review area.

Visit us, see why contractors throughout the Sacramento Valley, Placer County, El Dorado County and beyond call The PCCA home. Look into our group health, vision and dental plans available to our members. Have your 401k retirement plan or profit sharing plan moved into an incredibly aggressive and powerful multi employer group. Get the safety training programs and office training you need to become a leader in the construction industry.

Information provided by C&S Publishing, 2020.

CERTIFICATION

I am over the age of eighteen, a citizen of the United States, and a resident of Sacramento County. I am not a party to or otherwise interested in the attached matter. I am the principal clerk of the publisher of the **Placer County Contractors Association GSPS News - Northern Edition**. The Placer County Contractors Association *GSPS News - Northern Edition* is published and printed in the County of Sacramento. The notice, a printed copy of which is attached as Exhibit A, was set in type not smaller than nonpareil and was preceded by words describing the general character and terms of the notice printed in a black face type not smaller than nonpareil.

Exhibit A was published in *GSPS News - Northern Edition* online at www.gspapers.com from 07-19-2022 to 07-27-2022

Exhibit A was published in the *GSPS News - Northern Edition* a *Electronic Newspaper* from

07-25-2022, _____, _____, _____, _____,
_____, _____, _____, _____, _____,
_____, _____, _____, _____, _____

I declare under penalty of perjury that the forgoing is true and correct and that the attached advertisement, Exhibit A, was affixed to this Proof of Publication by my own hand.

Executed on 07-25, 2022 at Sacramento, California

Catherine Berlin

Catherine Berlin
Publisher, GSPS News - Northern Edition



RANGER PIPELINES INC.

Utility & General Engineering Contractors

License Number 417998

REQUEST FOR QUOTES FROM CERTIFIED San Francisco Small & Micro-LBEs and SFPUC-LBEs SUBCONTRACTORS AND SUPPLIERS FOR:

CHANNEL FORCE MAIN INTERTIE

Contract No. WW-723

OWNER: San Francisco Public Utilities Commission

Engineer's Estimate: \$16,000,000

BID OPENING: 08/11/2022 @ 2PM

Subtrades include but are not limited to: Asphalt Paving, Concrete Flatwork, Concrete Base, Curb Ramps, Waterproofing, Electrical, Instrumentation & Controls, Geotechnical Instrumentation & Monitoring, Pipeline Welding, Special Inspections, Micropiles, Rebar, Fabricated Metals

Ranger Pipelines Inc. will supply information regarding plans and specifications, bonds, lines of credit, and/or insurance requirements upon request. To request these materials, email qbd@sfgwater.org with this Contract No. WW-723, the firm name, full address, email address, phone number, copy of contractor's license or business card, and a copy of a government issued identification. Visit <https://webapps.sfpuc.org/bids/> for updates.

RANGER PIPELINES INCORPORATED

P.O. BOX 24109, SAN FRANCISCO, CA 94124

CONTACT: GRACE PRENDIVILLE

goodfaith@rangerpipelines.com

PHONE: (415) 822-3700 FAX: (415) 822-3703

AN EQUAL OPPORTUNITY EMPLOYER

Michael Baker

I N T E R N A T I O N A L

REQUEST FOR QUOTES FROM CERTIFIED DBE SUBCONTRACTORS FOR:

RFP for Professional Engineering Services for the Western Coachella Valley Flood and Blowsand Road Improvement Project, Phase 1

CVAG is requesting proposals to provide bridge/culvert structures design and roadway engineering, environmental studies and permits, geotechnical studies and report, right of way engineering, bid/award support, and construction support.

CVAG

Location: Coachella Valley, California.

Bid Date and Time: July 27, 2022, 10:00 AM

Trades/Services Requested for Teaming: Geotechnical and Right of Way Services

Michael Baker International

Send all responses to e-mail address.

Email: srg@mbakerintl.com

Contact Person: Sherrie Gundlach

AN EQUAL OPPORTUNITY EMPLOYER



THE DAILY REPORTER



PROOF OF PUBLICATION STATEMENT Contacted agencies via weekly email list

The following information is provided by **C&S Publishing**, listing qualifying construction agencies contacted via email in an attempt to full fill requirements listed as: Names of agencies and dates on which they were contacted to provide assistance in contacting, recruiting, and using firms.

All agencies contracted include but not limited to: firms with classification of DBE/DVBE/MBE/SBE/LBE/WBE/SLBE-ELBE AND firms with license of A, B, C,-SPECIALTY, C-2, C-4, C-5, C, C-8, C-9, C-10, C-11, C-12, C-13, C-15, C-16, C-17, C-20, C-21, C-22, C-23 C-27, C-28, C-29, C-31, C-32, C-33, C-34, C-35, C-36, C-38, C-39, C-42, C-43, C-45, C-46, C-47, C-50, C51, C-53, C-54, C-55, C-57, C-60, C-61, D - ALL, ASB - ASBESTOS CERTIFICATION, HAZ - HAZARDOUS SEBSTANCE REMOVALCERT.

I am over the age of eighteen, a citizen of the United States, and a resident of Sacramento County. I am not a party to or otherwise interested in the attached matter. The notice, a printed copy of which is attached as Exhibit A, was set in type not smaller than nonpareil and was preceded by words describing the general character and terms of the notice printed in a black face type not smaller than nonpareil.

I declare under penalty of perjury that the forgoing is true and correct and that the attached advertisement, Exhibit A, was affixed to this Proof of Publication by my own hand.

Number of agencies contacted 819

Executed on 07-25, 20 22 at Sacramento, California

Catherine Berlin

Catherine Berlin

Owner/ Publisher, The Daily Reporter

Publisher, GSPS News - Northern Edition

<u>Email Address</u>	<u>Company Name</u>	<u>Certification</u>	<u>Licenses</u>
bassetengineering@gmail.com	LRG Builder Services		
lisa@lrbuilderservices.com	Pro Plumbing & Drain Solutions, Inc	DVBE	
plumbingdrainsolutions@gmail.com	Summer Construction, Inc.		
summer.construction@hotmail.com	San Joaquin Electric		
brett@sanjoaquinelectric.com	LIBERTY ELECTRIC		
davep@libertyelectric.com	LOC, INC DBA LOC ARCHITECTS	DBE	A - General Engineering Contractor
poonam@loc-arch.com	WEBER GENERAL ENGINEERING INC		
Bryan@webergeneng.com	KEVIN YOUNG CONCRETE COMPANY		
KYCONCRETE1994@GMAIL.COM	H W SESSOMS CONSTRUCTION CO		
hildingse@gmail.com			
bids@birdgroupconstruction.com	DANCO BUILDERS NORTHWEST		
MDIBBLE@DANCO-GROUP.COM	P & P BUILDING WRECKING INC		
pnfino@yahoo.com	LEA ELECTRIC		
leaelectric@yahoo.com	MCW CONSTRUCTION GROUP, INC.	DBE	C-31 - Construction Zone Traffic Control Contractor, D -
mewcgroup@gmail.com			
All D Licenses			
matt@maskerpainting.com	JOHN VASS		
johnvass19@gmail.com	VERDUZCO ELECTRIC INC		
caverduzco@aol.com	Aaxis Construction		
clay@aaxisbuilds.com	CALIFORNIA BUILDING SERVICES INC		
CBSINC_PETE@COMCAST.NET	ALVARO MADRID CONCRETE CONSTRUCTION		
AMADRIDDCC@SBCGLOBAL.NET	TEXTURE SPECIALTIES, INC.	DVBE	
Kristin62727@yahoo.com	JAMES LONG CONSTRUCTION		
klong@jameslongconstruction.com	Redwood Electric Group		C-10 - Electrical Contractor
dcarbajal@redwoodeg.com	LITTLEJOHN-REULAND CORP		
lrobinson@littlejohn-reuland.com	PATANIA MASONRY		
PATANIAMASONRY@SBCGLOBAL.NET	BENNETT FENCING		
bennettfencing@gmail.com	OVALLE TRACTOR AND TRUCKING	DVBE	A - General Engineering Contractor
JIMBEAN15.JO@GMAIL.COM	Crosstown Electrical Data		
AHERMANANCE@CROSSTOWNDATA.COM	ALLIED PLUMBING & ENGINEERING	DBE	A - General Engineering Contractor, C-34 - Pipeline Con-
GILDAN100@AOL.COM			
tractor, C-38 - Refrigeration Contractor			
ionianconstruction@gmail.com	Ionian Construction, Inc.		A - General Engineering Contractor
contracts@krdesigninc.com	KRITZINGER + RAO	DBE	A - General Engineering Contractor
ANNE@SIERRAWEEDS.COM	SIERRA WEED SERVICES, INC.		
oliverconst.engi@gmail.com	OLIVER ENGINEERING CONSTRUCTION	DBE	A - General Engineering Contractor
UNITEDSTEELFENCE@SBCGLOBAL.NET	UNITED STEEL FENCE COMPANY		
esprattexc@aol.com	ERIC SPRATT		
pablo@doreckconstruction.com	Stephen Doreck Equipment Rentals		
info@enterpriseroofing.com	Enterprise Roofing Service - Bay Area Commercial Roofer		
noel@setantaengineering.com			
jga@horizontal.com	Horizon Steel & Ironworks		
jonathan.villet@owcom.com			
info@shortload.com	RV CONCRETE, INC.		
hkelectricalaliza@gmail.com	H.K. ELECTRICAL INC.		
JJRCONSTRUCTION@AOL.COM	J.J.R. CONSTRUCTION	DBE	A - General Engineering Contractor
bid@rados.com			
nathan@nathansglassinc.com	NATHAN'S GLASS & MIRROR INC.		
DDM@Fidatocorp.com	FIDATO		
estimating@dirtydynastyinc.com	Dirt Dynasty Inc		
bparker@masselec.com	Mass. Electric Construction Co.		
ibsusainc@yahoo.com	D L CONSTRUCTION		
felipe@bear-electrical.com	Bear Electrical Solutions, Inc		
kylekylekiser@gmail.com	KISER CONSTRUCTION	DVBE	A - General Engineering Contractor
deltasandblast2@sbcglobal.net	Delta Sandblasting Company, Inc.		
BGPOWELL@SUDDENLINK.NET	POWELL LANDSCAPE MATERIALS		
aaservices@cox.net	A&A CONTRACTING SERVICES INC	DVBE	B - General Building Contractor
paul@mountainpacificusa.com	MOUNTAIN PACIFIC INCORPORATED		
tbachich@michels.us	Michels Corporation		
usaconstruction1@sbcglobal.net	USA CONSTRUCTION	DBE, DVBE	A - General Engineering Contractor, B - General Building
Contractor, C-10 - Electrical Contractor, C-20 - Warm-Air Heating, Ventilating and Air-Conditioning Contractor,			C-31 - Construction Zone Traffic Control Contractor
sojmr123@aol.com		WBE	A - General Engineering Contractor
PACIFICCONTRACTORSINC@GMAIL.COM	Pacific Contractors Group		
tim@timkelleyconsulting.com	TIM KELLEY CONSULTING		
scottdpc@sbcglobal.net	Diversified Power		
cfclewis@dslextre.me.com	J3C CONSTRUCTION		
mbabst@eticeng.com	ETIC		
dalycontractor@yahoo.com			
wsjh95@gmail.com	Polar Electrical Co.		C-10 - Electrical Contractor
ct@ctconcretecutting.com	CT CONCRETE CUTTING, INC.		
ERIC@YBELECTRIC.BIZ	YOUNGBLOOD ELECTRIC COMPANY	DBE	C-10 - Electrical Contractor
steve@capitolironworks.com	CAPITOL IRON WORKS, INC		
elielectric@live.com	ELI ELECTRIC & CONSTRUCTION INC		
fred@cccumping.com	Scatco Concrete Pumping Inc.	DVBE	B - General Building Contractor
bids@sully-miller.com	Sully-Miller Contracting Co.		
ltran@transtarbuilder.com	TRANSTAR BUILDERS		
restbruno@aol.com	BKB GENERAL ENGINEERING INC	DVBE	A - General Engineering Contractor
lee@seegertconstruction.com	Seegert Construction		
INFO@WESTPACIFICCONCRETE.COM	WEST PAC CONCRETE, INC.		
rwojcik@rados.com	Steve P. Rados, Inc.		
cbasicpu@gmail.com	Catalina Pacific Underground		
isegovia@morgnerco.com	Morgner Construction Management		
clairconcrete@gmail.com	Clair Concrete		
lumnije@svcable.com	Silicon Valley Cable Company, Inc.		C-7 - Low Voltage Systems Contractor

<u>Email Address</u>	<u>Company Name</u>	<u>Certification</u>	<u>Licenses</u>
mkd2@att.net	MKD Construction, Inc.		
ROYALTYPROPAINING@GMAIL.COM	ROYALTY PRO PAINTING		
carlos@mecsfl.com			
trafficloops@sbcglobal.net	TRAFFIC LOOPS CRACKFILLING		
franz@studio151corp.com			
bids@brannondemo.com	Brannon Corporation		
dvbraden@gmail.com			
beckyb@omroofing.com	OM ROOFING INC.		
haydonconst@yahoo.com	Haydon Construction	DBE	
terry@salehcompany-bks.com	Wm. B. Saleh Co.		
lsurgener@mckee-electric.com	MCKEE ELECTRIC COMPANY		
ALLENHANES1@YAHOO.COM	ALLEN LEE HANES CONSTRUCTION		
maureen@rjdsdesign.com			
garc0804@comcast.net	GRIFF COMMUNICATIONS	DVBE	
denise7431@yahoo.com	D & D CONCRETE CONSTRUCTION CO	DBE	C-8 - Concrete Contractor
vincon@vintagecontractors.com			
transpacificgeotec@sbcglobal.net	Trans Pacific Geotechnical		
yguzman@WARasic.com			
ro84@topendconstructors.com	TOP END CONSTRUCTORS INC		
ccrockett@placementclub.com			
ABSOLUTEMECHANICAL@ATT.NET	ABSOLUTE MECHANICAL INC		
marrsighting@gmail.com			
ucpaintingservice@gmail.com	ARTURO BENAVIDES		
hillyhowl@aol.com	HILLY HOWL INC		
susan@ciroofig.net	CHANNEL ISLANDS ROOFING, INC.		
JAGIBEV@GMAIL.COM	J. A. GONSALVES & SON CONSTRUCTION, INC.	MBE, WBE	A - General Engineering Contractor
reginal.king@gmail.com			
jvidrio@msn.com	VIDRIO ENTERPRISES	DBE	B - General Building Contractor
ROSE@DEHAROMECHANICAL.COM	DEHARO MECHANICAL		
kc.semperfirebar@gmail.com	SEMPER FI REBAR CORP	DVBE	
DANDDFLOORS@ATT.NET	D & D FLOORS		
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BRENDA@BEAVENS.COM	BEAVENS SYSTEMS, INC.		
sandy.fleming@pcexploration.com	PC EXPLORATION, INC.		
lauren@kaboomproductions.com			
davida11@roadrunner.com	A & V CONTRACTORS INC		
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parkjung@sbcglobal.net			
YoungTrieu@yahoo.com	Re/Max Golden Empire		
tesmer6@comcast.net	TESMER PAINTING CO		
KEN@CAPITALSHEETMETAL.NET	CAPITAL SHEET METAL		
SRUSSELL@SOUTHSHOREGLASSANDDOOR.COM		SOUTH SHORE GLASS	
HLUISI@SBCGLOBAL.NET	LUISI CONSTRUCTION		
INFO@THELAGLASS.COM	LOS ANGELES GLASS COMPANY, INC.	DBE	C-17 - Glazing Contractor, D - All D Licenses
bitechconstruction@gmail.com		DBE	A - General Engineering Contractor, B - General Building Contractor, C-12 - Earthwork and Paving Contractors
c.opel@brazosurethane.com	Brazos Urethane, Inc.		
bret@heat-xfer.com	SR&B BOILERS INC		
fresno.esteeming@gcinc.com	Granite Construction Co.		
jwong@elecnor.com	Elecnor Belco Electric, Inc		
howard@mariesinvestmentrealestate.com			
MASTERS@MASTERSCC.COM	MASTERS CONTRACTING CORP.		
ceilingexperts@yahoo.com	CEILING EXPERTS, INC		
dm@dynamicgeneratorservice.com	DYNAMIC GENERATOR SERVICE INC	DBE	B - General Building Contractor, C-10 - Electrical Contrac-
tor			
fariborzayzdi@yahoo.com	Aria Electric		
cvas221851@aol.com	LEROY VASQUEZ SANDBLASTING	DBE	D - All D Licenses
Safa.kamangar@mbakerintl.com			
THEWRIGHTBUILDER@GMAIL.COM	WESTERN VALLEY CONSTRUCTION		
barrie@airesm.com	Aire Sheet Metal, Inc.		C-4 - Boiler, Hot Water Heating and Steam Fitting Contrac-
tor, C-20 - Warm-Air Heating, Ventilating and Air-Conditioning Contractor, C-43 - Sheet Metal Contractor			
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garym@bockmonwoody.com			
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rcraig@americanpipelineservices.com	American Pipeline Services		
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char@meyersearthwork.com	MEYERS EARTHWORK INC		
aaron.traoutdoor@gmail.com	ATM construction group	DVBE	B - General Building Contractor
earvin@rlqualitypainting.com	Ruben Godinez		
AAAElectricalSolutions@gmail.com	AAA Electrical Solutions, Inc		
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phil@stocktonfenceco.com	STOCKTON FENCE & MATERIAL CO., INC.		
juan@themopere.com	THE MOP CREW INC.	DBE	B - General Building Contractor
bids@altenconstruction.com	Alten Construction, Inc.		A - General Engineering Contractor, B - General Building Contractor
medde@dutragroup.com	The Dutra Group		
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LiSimon@flatironcorp.com	Flatiron Wesst, Inc.		
herman@guardbuildingcorp.com	Guard Building Corp.	DVBE	B - General Building Contractor
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WNASON@EARTHLINK.NET	J & N ELECTRIC		
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jae@groundci.com			
CGOMEZ8@VERIZON.NET	CARLOS GOMEZ		
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richard.ducote@gmail.com	Ducaí, Inc.	DVBE	B - General Building Contractor
MAIL@WESINC.ORG	WAGNER ENGINEERING & SURVEY		
MORGAN.CLAYTON@TEL-TEC.COM	TEL-TEC SECURITY SYSTEMS		
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Contractor			
dhester@vc-inc.net	Vanguard Construction		
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dirworkinc@verizon.net	DIRT WORK & EXCAVATION INC		
cdraac4@citlink.net	DALE W CARTER FENCING		
kssouthcoast@roadrunner.com	SOUTH COAST SWEEPING, INC.	DBE	C - Specialty Contractor
nancybrinkerhoff.icbi@gmail.com		DBE	B - General Building Contractor, C-9 - Drywall Contractor
precisioncomfortair@yahoo.com	PRECISION COMFORT HEATING AND AIR		
creativebuilders@whobuilt.biz	WHO BUILT CREATIVE BUILDERS	DBE	A - General Engineering Contractor
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AGFenceSupply@aol.com	PERRIS FENCE & SUPPLY, INC.		

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bigmo@netwiz.net	BIG M TRUCKING		
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tractor			
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rodu@denalect.com	Denalect Inc.		C-7 - Low Voltage Systems Contractor, C-10 - Electrical
Contractor			
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and Finish Carpentry Contractor, C-17 - Glazing Contractor, C-23 - Ornamental Metal Contractor, C-61 - Limited Specialty			
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SWFMANDO@GMAIL.COM	SALDANA WELDING AND FABRICATION		
estimating@americanpavingco.com	American Paving Co.		
Salponce7930@yahoo.com	Sgt Ponce Construction Inc	DVBE	B - General Building Contractor
nevarez.gabriel@yahoo.com	DESIGN BUILD ENGINEERING CONTRACTORS, INC.		DBE A - General Engineering Contractor, B - General Building Contractor
al Building Contractor			
keagomez@yahoo.com	JMO CONSTRUCTION		
cacontractinggroup@gmail.com	Costa Azul Contracting Group	DVBE	
arsy214@gmail.com			
paul@joneshaydu.com	JONES:HAYDU dba JONES HAYDU INCORPORATED		
BOBBERRYJR@SBCGLOBAL.NET	R.J. BERRY JR., INC.		
sbrefire@aol.com	FONTANA FIRE EQUIPMENT		
socalmarketing@bumsmcd.com	Burns & McDonnell		
Faye.alano@slurry.com	VSS International, Inc.		
sunrisegrp@gmail.com			
joe@securitypaving.com	Security Paving Company		
anthony@defreitaspipeline.com	DPI		
estimating@pomslandscaping.com	Poms Landscaping, Inc.		A - General Engineering Contractor, B - General Building Contractor
Contractor, C-27 - Landscaping Contractor			
service@remdoxcorp.com	Remdox Incorporated	DVBE	A - General Engineering Contractor, B - General Building Contractor
Contractor			
gwjr@bjjandjconsultant.com	BJJ&J CONSULTANT		
allphasesf@gmail.com	ALL PHASE ELECTRICAL		
TIM@JONESDBPAINTING.COM	DOUBLE BARREL PAINTING, INC		
jerrykccc@yahoo.com	KERN COUNTY CUSTOM CONCRETE	DBE	C-8 - Concrete Contractor
ampmtreeservice@gmail.com	Am/Pm Tree Service, Inc.		
d.casad@earthmech.com	Earth Mechanics, Inc.		
bids@bus.com	Bus.com		
sarah@JDAGeneralb.com	JHONICO AND ALEXANDER CONSTRUCTION INC.	DBE	B - General Building Contractor, C-9 - Drywall Contractor
efren_a@abratique.com	SAFEPROBE, INC.	DBE	A - General Engineering Contractor
john.kaeper@jkcpany.net			
david@legionsolutions.com	Legion Solutions		
abili@deltechengineeringinc.com	DELTECH ENGINEERING, INC	DBE	A - General Engineering Contractor
pamelaowenadams@gmail.com			
scottmichaelinc@sbcglobal.net	SCOTT MICHAEL INC		
estimating@tennysonlec.com	TENNYSON ELECTRIC		
MARTIN@WESTNETCOMPANY.COM	WEST NET COMMERCIAL CONSTRUCTION		
ken.carrion@sdrvservicesinc.com			
raymondleehayesjr@yahoo.com	RAYMOND LEE HAYES JR. CONSTRUCTION COMPANY		DBE A - General Engineering Contractor, B - General Building Contractor
al Building Contractor			
mharren@michels.us			
Todd.Steele@acr-refrigeration.com			
BCHADWICK@MITCHELLCHADWICK.COM	MITCHELL & CHADWICK LLP		
tonyx@penaweb.com	Pena Grading and Demolition		
bob1@mcLaughlin-air.com	R.D.L., INC.	DBE	B - General Building Contractor, C-2 - Insulation and Acoustical Contractor, C-20 - Warm-Air Heating, Ventilating and Air-Conditioning Contractor, C-34 - Pipeline Contractor, C-38 - Refrigeration Contractor
Acoustical Contractor, C-20 - Warm-Air Heating, Ventilating and Air-Conditioning Contractor, C-34 - Pipeline Contractor, C-38 - Refrigeration Contractor			
dirt.mover.gle@gmail.com	Good Life Engineering	DVBE	A - General Engineering Contractor

<u>Email Address</u>	<u>Company Name</u>	<u>Certification</u>	<u>Licenses</u>
dennis@tri-technic.com	Tri-Technic, Inc.		
jami@hampatrading.com	HAMPA CORPORATION		
olympospaintinc@gmail.com	OLYMPUS PAINTING INC.		
cyndi@tourmalineproperties.com	TOURMALINE PROPERTIES, INC.	DVBE	B - General Building Contractor
chris@patriotbuilds.com	PATRIOT CONSTRUCTION INC	DVBE	B - General Building Contractor
TCORNELL@CVCASEWORK.COM	CENTRAL VALLEY CASEWORK		
AlejandroAndrade31@yahoo.com	ALEJANDRO ANDRADE	DBE	
ffung@ed2intl.com	E D 2 INTERNATIONAL	DBE	A - General Engineering Contractor
Charliejr.cws@gmail.com	CWS Construction Group		A - General Engineering Contractor, B - General Building Contractor
debbie.dogger@excelacoustics.com	PETER H. DOGGER		
Venessa.gleich@aicccal.org	American Indian Chamber Education Fund PTAC		
Glenele@AltaCMGC.com	ALTA ENGINEERING GROUP, INC.	DBE	A - General Engineering Contractor, B - General Building Contractor
raul.carlos@ilbinc.com	ILB Electric		
bamesbury@QDconstruction.com	Q&D Construction		
jweaver@teichert.com	Teichert Energy & Utilities Group		
info@moorelectric-sd.com	MOOR ELECTRIC, INC	DBE	C-10 - Electrical Contractor
kuo.brigadeLA@gmail.com	Kuo Yang	DVBE	
norcalpump@yahoo.com	Nor-Cal Pump & Well Drilling, Inc.		
admin@smci-const.com	Steve Manning Construction		
pjuette@jmlandrestoration.com	J & M LAND RESTORATION, INC.	DBE	A - General Engineering Contractor
worldwide@wwegc.com	WORLD WIDE CONSTRUCTION		
john.johnson@circlecityelectric.com	CIRCLE CITY ELECTRIC INC.		
steve@luckydogconstruction.com	LDC Millrights & Mechanical		
susan@scanderson.com	S.C. Anderson, Inc.	DBE	C-10 - Electrical Contractor, C-20 - Warm-Air Heating, Contractor, C-27 - Landscaping Contractor
scabaj@etsys.com			
Ventilating and Air-Conditioning Contractor			
ADMINISTRATION@DC-TILE.COM	DC TILE CO		
karenturner@sjs-steel.com	SAN JOAQUIN STEEL CO INC		
abbigail@cpmllogistics.net	CPM LOGISTICS, LLC	DBE	B - General Building Contractor
jesus.ramirez@jxrconstructors.com	JXR CONSTRUCTORS INC	DBE	A - General Engineering Contractor, B - General Building Contractor
hoa.w.vo@gmail.com			
Contractor, C-27 - Landscaping Contractor			
ellabids@mail.com	ELLA		A - General Engineering Contractor, B - General Building Contractor
Contractor, C-28 - Lock and Security Equipment Contractor, C-33 - Painting and Decorating Contractor			
andy@steelstructuresinc.us	Steel Structures, Inc.		
dschmitt@sinteriorsinc.com	DMS Drywall & Interior Systems Inc	DVBE	B - General Building Contractor
afmenviro@aol.com	A F M ENVIRONMENTAL INC.	DBE	A - General Engineering Contractor, B - General Building Contractor
Contractor, C-21 - Building Moving/Demolition Contractor			
tazautodetailing@gmail.com			
dadoduffy@aol.com	ODUFFY CONSTRUCTION		
greggmecch@yahoo.com	GP MECHANICAL		
Mpc.jmaher@gmail.com	Michael Paul Co, Inc.		
tipcoinc@aol.com	TIPCO ENGINEERING, INC	DBE	A - General Engineering Contractor, D - All D Licenses
JASON@MERCOZA.COM	MERCOZA		
sarah@hobstetterarch.com			
dgriffin@fanfainc.com	FANFA, INC.	DBE	A - General Engineering Contractor
hkhijazi@gmail.com			
alfredo@aaapacificbuilders.com	AA PACIFIC BUILDERS		
drawalecs@gmail.com	ENVIRO COMPLIANCE SOLUTIONS INC.	DBE	A - General Engineering Contractor
crystal@cmctraffic.com	CMC TRAFFIC CONTROL SPECIALIST	DBE	A - General Engineering Contractor, C-31 - Construction
Zone Traffic Control Contractor			
cristina@safe2core.com	SAFE2CORE, INC.	DBE	D - All D Licenses
ASI.Scaffolds@gmail.com	JC SCAFFOLD SERVICES	DBE	D - All D Licenses
joe.rubio@bluenoseit.com	Bluenose Construction		
fennarc@aol.com	FENNARC STUDIO, INC.	DBE	A - General Engineering Contractor
segum@saassociates.com	SAA ASSOCIATES	DBE	A - General Engineering Contractor
jlvplumbing82@yahoo.com	JLV, INC	DBE	C-34 - Pipeline Contractor, C-38 - Refrigeration Contractor
recsandiego@gmail.com	REC CONSTRUCTION SERVICES		
sales@p-r-o.com	Professional Refinishing Organization		
mario@sprintsins.net	RiMar INC	DVBE	
n2electric@n2electric.com	N2 ELECTRIC INC		
Kristy.moyer@prideindustries.com	Pride Industries		
jim@wathomas.net	W.A. Thomas Company, Inc.		A - General Engineering Contractor, B - General Building Contractor
Contractor			
trgeimail@aol.com	TRI-R GENERAL CONTRACTORS, INC	DBE	B - General Building Contractor
oh.aranagroup@gmail.com	Arana Group		
tim@actionfiresystems.com	ACTION FIRE SYSTEMS CO INC		
lisa@baconplumbing.com			
rolf@gridconn.biz	THE GRID CONNECTION INC		
ACCOUNTING@WPNP.NET	W-PNP, INC.		
ALUSI@GSIGROUT.COM	GEOTECHNICAL STABILIZATION INC		
TIGERSAND916@GMAIL.COM	TIGER SAND & GRAVEL INC		
steven@rodconstruct.com	ROD TRANSPORT INC.	DBE	A - General Engineering Contractor
cindymorello@yahoo.com	MORELLO CONCRETE CONSTRUCTION, INC.		
sam@mallardinc.com	MALLARD CONSTRUCTION INC	DVBE	B - General Building Contractor
aagusel@gmail.com	Azuma Tech Systems Inc	DVBE	
pattyf@wildblue.net	FERRAVANTI GRADING		
BIDS@PIPEANDPLANT.COM	PIPE AND PLANT SOLUTIONS, INC.		
mark@tommayo.net	TOM MAYO CONSTRUCTION		
psaleen@wmlylesco.com	W.M. Lyles Co.		
mparres@dlimechanical.com	DANIEL LARRATT PLUMBING INC.		
tsiu@tsiuassociates.com	tsi associates		

<u>Email Address</u>	<u>Company Name</u>	<u>Certification</u>	<u>Licenses</u>
accounting@jcm Metals.com Contractor	TOM'S METAL SPECIALIST INC	DBE	B - General Building Contractor, C-23 - Ornamental Metal
joehiti@epicengineering.com tchee@TCLStudio.net jescobar@lasignal.com BRIAN@STRHOADESINC.COM	Epic Engineering, LLC TINA CHEE LANDSCAPE STUDIO Los Angeles Signal Construction	DBE	A - General Engineering Contractor
kelli@bearscaffold.com and Plastering Contractor, C-61 - Limited Specialty	Bear Scaffold and Services		C-2 - Insulation and Acoustical Contractor, C-35 - Lathing
heidi@mobilewelderguy.com ryan@2hconstruction.com Adam.sass@graybar.com pdownsjr@gmail.com	Mark A. Kartchner 2H Construction, Inc. Graybar Electric Lidoli, Corp.	DVBE DVBE	 B - General Building Contractor
DENNIS@POLARSERVICE.COM paul@eplumbingsolutions.com greg@buildxgroup.com	POLAR SERVICE CO BUILDXGROUP, INC.	 DVBE	 B - General Building Contractor
bids@perimetersecuritygroup.com rmlpaving@sbcglobal.net rjveach@datatelcontractors.com northfalconelectric@yahoo.com jvargas@internationalimagesinc.com	Perimeter Security Group, LLC RML PAVING DATA-TEL CONTRACTORS INC North Falcon Electric INTERNATIONAL IMAGES, INC.		
ASTROPNT@YAHOO.COM drsmarine@aol.com diane@farwestcorrosion.com peterspaving@mac.com VICMZAMORA@DDESIGNCOM.COM	ASTRO PAINTING CO. D R S MARINE INC PETERS PAVING & GRADING INC		
VallejoAdmin@crusaderfence.com Brian@coastalbuildinggrp.com joesmcp@aol.com DSDOMINGUEZ@EARTHLINK.NET swalsh@flexground.com	crusader fence COASTAL BUILDING GROUP, INC MID CAL PIPELINE & UTILITIES INC DISTINCTIVE CONSTRUCTION FLEXGROUND SURFACES, INC.	DVBE	B - General Building Contractor
Dawna@PeridotEngineering.com jrhee@YungArchitects.net GENE@AVIARYMGTPROS.COM	PERIDOT CONSTRUCTION YUNG ARCHITECTS AVIARY MANAGEMENT	DBE DBE	A - General Engineering Contractor A - General Engineering Contractor
FrankEatmon@juno.com Contractor	XTREME CABLE & ELECTRIC LLC	DBE	C-7 - Low Voltage Systems Contractor, C-10 - Electrical
tinocencio@brosamerwall.com KIMEXCAVATE@ATT.NET aglazier@msconstruction.com andersonroofingsf@yahoo.com estimating@cctcom.net eric@santaclaritaconcrete.com staracemechanicalmain@gmail.com cdavis@interstaterestoration.com lubaw@lcwconsulting.com bryancoastalme@gmail.com cclark@bellproducts.com Contractor, C-4 - Boiler, Hot Water Heating and Steam Fitting Contractor, C-20 - Warm-Air Heating, Ventilating and Air-Conditioning Contractor, C-36 - Plumbing Contractor, C-43 - Sheet Metal Contractor	KIM MARRS EXCAVATION MS Construction ANDERSON ROOFING Cal Coast Telecom SANTA CLARITA CONCRETE MARTINO STARACE JR Interstate Restoration Group		C-7 - Low Voltage Systems Contractor
mansfieldmansfield380@yahoo.com bob@remcollum.com sboneso@bonesobrothers.com dcosta@tcco.com don@dspjanitorial.com GCBUILDERS137@YAHOO.COM ela@dpvape.com Substance Removal Certification	Coastal Mountain Electric Bell Products, Inc R E MCCOLLUM CONSTRUCTION INC BONESO BROTHERS CONST Turner Construction Company GC BUILDERS Duran and Venables, Inc.	 DBE	A - General Engineering Contractor, B - General Building Contractor, C-36 - Plumbing Contractor, C-43 - Sheet Metal Contractor C - Specialty Contractor A - General Engineering Contractor, HAZ - Hazardous

From: [Latino, Steven](#)
To: [Holly Duke](#)
Cc: [Gundlach, Sherrie](#); [Desiree Martinez](#); [John Gust](#)
Subject: RE: EXTERNAL: RE: CVAG Blowsands/Flooding RFP
Date: Wednesday, August 3, 2022 2:48:10 PM

Holly,

Thanks for getting back to me so soon. Yes, cultural and paleontological would be your scope.

Steven Latino, P.E., T.E. | Associate Vice President/Department Manager - Transportation/Public Works

75-410 Gerald Ford Drive, Suite 100 | Palm Desert, CA 92211 | [D] 760-776-6145 | [M] 951-252-4916

steven.latino@mbakerintl.com | www.mbakertnl.com



From: Holly Duke <HDuke@cogstone.com>
Sent: Wednesday, August 3, 2022 2:41 PM
To: Latino, Steven <Steven.Latino@mbakerintl.com>
Cc: Gundlach, Sherrie <SRG@mbakerintl.com>; Desiree Martinez <DMartinez@cogstone.com>; John Gust <jgust@cogstone.com>
Subject: EXTERNAL: RE: CVAG Blowsands/Flooding RFP

Hi Steven,

Thank you for the invite – we would love to team! I can have the materials you requested back to you by COB Friday or sooner. Just to confirm – should we include cultural and paleontological resources services in our scope?

Thank you!

Holly Duke, BA
Marketing Manager | Archaeologist

Cogstone Resource Management
1518 W Taft Ave Orange, CA 92865
714-974-8300 office | 562-416-3164 cell
hduke@cogstone.com www.cogstone.com
Field Offices in San Diego, Riverside, Morro Bay,
Sacramento, Arizona

We tell the stories of ancient life and human cultures both to promote an appreciation of the past and relevance to the future.™

From: Latino, Steven <Steven.Latino@mbakerintl.com>
Sent: Wednesday, August 3, 2022 12:37 PM
To: Desiree Martinez <DMartinez@cogstone.com>; John Gust <jgust@cogstone.com>
Cc: Gundlach, Sherrie <SRG@mbakerintl.com>
Subject: CVAG Blowsands/Flooding RFP

Desiree/John,

I wanted to reach out on the subject proposal, and I know this is last minute, but I wanted to see if you possibly wanted to team up on it and provide Cultural Resources as part of the Environmental phase. The proposal is for 3 bridge locations and Michael Baker had prepared the feasibility study. CVAG has extended the deadline in order to allow for a little more time; however, it is tight with everything going on. The proposal would be due on 8/16; however, since I am using a proposal support team, they want a draft by this Friday. So, if you are interested in joining, I would need to have your marketing materials (i.e. logo, firm description, key team member resumes) as well as the written section of your work by Friday. Fees can follow afterword.

Please confirm receipt and if you are interested in teaming. I am pretty booked up in meetings, but if you would like to discuss I can be available late this afternoon. Attached is the request information from our proposal team as well as a link to the edited CVAG materials that reference the three specific crossings.

Link to attachments: <https://eFTP.mbakerintl.com/message/xVazFCmY489DC0xvXf8fse>

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From: [Latino, Steven](#)
To: [Gundlach, Sherrie](#)
Subject: FW: CVAG Blowsand RFP
Date: Wednesday, August 3, 2022 12:39:53 PM
Attachments: [Michael Baker - Subconsultant RFI - CVAG Blowsand Improvements.zip](#)
[image001.png](#)

Another one for your DBE records.

Steven Latino, P.E., T.E. | Associate Vice President/Department Manager - Transportation/Public Works
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steven.latino@mbakerintl.com | www.mbakertnl.com



From: Latino, Steven
Sent: Sunday, July 31, 2022 10:59 PM
To: Alaheswaran Thurairajah <A.Thurairajah@earthmech.com>; Denise Casad <D.Casad@earthmech.com>
Cc: Harden, Chad <CHARDEN@mbakerintl.com>
Subject: CVAG Blowsand RFP

Alahesh,

I need a miracle, and I apologize in advance for this being so last minute. , I am working on this CVAG Blowsand RFP....which, long story short we were on again, off again and on again. We were able to get CVAG to give us an extension; however, this is now due on 8/16. Long story short, after we received this on Friday, I went into scramble mode because I have to pull together a proposal by 8/5 so our proposal team can pull this bad boy together. Long story short, I wanted to reach out and see if you wanted to partner up on this one.

If you are interested I will need you for Geotechnical Support. This one has Contech providing structural support (pre-fab). I would like to try to get a call with you, Chad from our team and possibly Contech since we need to nail this down quickly. Since we have to get things into our team to format it and get it pulled together, if you are interested in joining, I would focus on the scope and send me your marketing materials (resumes/logos/etc). My proposal manager put together an RFI, which is attached. We can get the fees and forms after this week; however, if you can get me this info by Friday it would be a HUGE appreciation.

Steven Latino, P.E., T.E. | Associate Vice President/Department Manager - Transportation/Public Works
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steven.latino@mbakerintl.com | www.mbakertnl.com



From: Alaheswaran Thurairajah <A.Thurairajah@earthmech.com>
Sent: Sunday, July 17, 2022 6:22 AM
To: Latino, Steven <Steven.Latino@mbakerintl.com>; Denise Casad <D.Casad@earthmech.com>
Subject: RE: EXTERNAL: San Bernardino County On-Call

Hi Steven,

We are OK with your rate sheet.

As you can see in attached rate sheet there's a dollar off due to different rounding in some places, but you can go with what you have if it's easier for you.

Thanks,

[Alahesh](#)

From: Latino, Steven <Steven.Latino@mbakerintl.com>
Sent: Saturday, July 16, 2022 12:00 AM
To: Denise Casad <D.Casad@earthmech.com>
Cc: Alaheswaran Thurairajah <A.Thurairajah@earthmech.com>
Subject: RE: EXTERNAL: San Bernardino County On-Call

Denise/Alahesh,

The County is finally moving forward with the on-call agreements...which seems like this was forever ago. I need to include 2026/2027 in your rate sheet, so I went through and extrapolated your numbers out another year.

Can you please confirm you are ok with this? I need to submit this on Monday back to the County. Sorry for it being so last minute, they didn't give us very much time to respond back. Thanks.

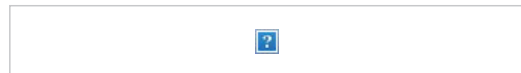


Fee Proposal Sheet

Title	Hourly Rates					
	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
Principals	\$ 293.00	\$ 308.00	\$ 323.00	\$ 339.00	\$ 356.00	\$ 374.00
Principal Engineers/Geologists	\$ 293.00	\$ 308.00	\$ 323.00	\$ 339.00	\$ 356.00	\$ 374.00
Senior Engineers/Geologists	\$ 219.00	\$ 230.00	\$ 242.00	\$ 254.00	\$ 267.00	\$ 281.00
Sr. Project Engineers/Geologists	\$ 166.00	\$ 174.00	\$ 183.00	\$ 192.00	\$ 202.00	\$ 213.00
Project Engineers/Geologists	\$ 174.00	\$ 183.00	\$ 192.00	\$ 202.00	\$ 212.00	\$ 223.00
Senior Staff Engineers/Geologists	\$ 150.00	\$ 158.00	\$ 166.00	\$ 174.00	\$ 183.00	\$ 193.00
Staff Engineers/Geologists	\$ 119.00	\$ 125.00	\$ 131.00	\$ 138.00	\$ 145.00	\$ 153.00
Senior Technicians	\$ 147.00	\$ 154.00	\$ 162.00	\$ 170.00	\$ 179.00	\$ 189.00
Technicians	\$ 73.00	\$ 77.00	\$ 81.00	\$ 85.00	\$ 89.00	\$ 94.00
Administrative Assistants	\$ 121.00	\$ 127.00	\$ 133.00	\$ 140.00	\$ 147.00	\$ 155.00

Other Direct Costs	Rate
Mileage	At IRS Allowable
Postage/Overnight Delivery	At Cost

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steven.latino@mbakerintl.com | www.mbakertnl.com



From: Denise Casad <D.Casad@earthmech.com>
Sent: Friday, December 3, 2021 11:28 PM
To: Gundlach, Sherrie <SRG@mbakerintl.com>
Cc: Latino, Steven <Steven.Latino@mbakerintl.com>; Alaheswaran Thurairajah <A.Thurairajah@earthmech.com>
Subject: EXTERNAL: San Bernardino County On-Call

Hi Sherrie,

Per your email to Alahesh, I have attached the information you requested. We are finalizing the rate sheet and will send it separately. Please let me know if you need any modifications or additional information.

Best regards,
 Denise

Denise Casad
EARTH MECHANICS, INC.
Phone: (714) 751-3826 ext. 101
Cell: (714) 287-5453

From: [Latino, Steven](#)
To: [Gundlach, Sherrie](#)
Subject: FW: EXTERNAL: RE: CVAG Flooding and Blowsand RFP
Date: Wednesday, August 3, 2022 11:39:40 AM
Attachments: [Michael Baker - Subconsultant RFI - CVAG Blowsand Improvements.zip](#)

For your DBE documentation.

Steven Latino, P.E., T.E. | Associate Vice President/Department Manager - Transportation/Public Works

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From: Latino, Steven
Sent: Tuesday, August 2, 2022 10:28 AM
To: Juan Hernandez <juan@hernandezenvironmental.com>; Riggs, Shelah <Shelah.Riggs@mbakerintl.com>; Shawn Gatchel-Hernandez <shawn@hernandezenvironmental.com>
Cc: Popp, Arthur <Arthur.Popp@mbakerintl.com>
Subject: RE: EXTERNAL: RE: CVAG Flooding and Blowsand RFP

Good Morning Juan,

Thanks for joining the MBI team. Unfortunately, this one is a bit of a quick turnaround, so I have attached our proposal teams RFI as well as a link below to the CVAG attachments edited down to the three locations in question. With the proposal due on 8/16, our proposal team wants our draft write up to them this Friday 8/5 to give them time to assemble the proposal and get it out for review.

With that said, if you can send me marketing materials (logo, resumes, firm description) as well as your written scope that would be great. I would say fee can come later. Please let me know if you have any questions, and I can be available for a call.

Link to attachments: <https://eFTP.mbakerial.com/message/xVazFCmY489DC0xvXf8fse>

Thanks again!

Steven Latino, P.E., T.E. | Associate Vice President/Department Manager - Transportation/Public Works

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From: Juan Hernandez <juan@hernandezenvironmental.com>

Sent: Tuesday, August 2, 2022 9:48 AM

To: Riggs, Shelah <Shelah.Riggs@mbakerintl.com>; Shawn Gatchel-Hernandez <shawn@hernandezenvironmental.com>

Cc: Latino, Steven <Steven.Latino@mbakerintl.com>; Popp, Arthur <Arthur.Popp@mbakerintl.com>

Subject: EXTERNAL: RE: CVAG Flooding and Blowsand RFP

Good morning Shelah! Hope all is well.

Yes, definitely interested. Thank you for thinking of us. Send the info and we will get you what you need.

Thank you Shelah.

Juan J. Hernandez
Principal Biologist

Hernandez Environmental Services
Environmental Compliance Solutions

17037 Lakeshore Drive
Lake Elsinore, CA 92530
Office: (951) 579-1657
Cell: (909) 772-9009
Fax: (951) 389-3104

www.HernandezEnvironmental.com



BIOLOGY & ENVIRONMENTAL COMPLIANCE SOLUTIONS

From: Riggs, Shelah <Shelah.Riggs@mbakerintl.com>

Sent: Tuesday, August 2, 2022 9:44 AM

To: Juan Hernandez <juan@hernandezenvironmental.com>; Shawn Gatchel-Hernandez <shawn@hernandezenvironmental.com>
Cc: Latino, Steven <Steven.Latino@mbakerintl.com>; Popp, Arthur <Arthur.Popp@mbakerintl.com>
Subject: CVAG Flooding and Blowsand RFP
Importance: High

Hello Juan,

I have cc'ed Steve Latino and Art Popp on this email to introduce you. We are pursuing the CVAG blowsand project RFP and wanted to see if you would be interested in being on our team – there is a 14% DBE requirement, which we would satisfy mostly with your firm's work.

Steve will forward your info to our marketing team so that they can get all the info from you that we need. I have attached the RFP and an addendum was received that pushes out the submittal date – marketing can provide a schedule for receipt of your input. See attached RFP, Section II Scope of Work, item 3:

Environmental Review, Coordination, Design and Permitting SCOPE OF WORK - *The consultant shall be responsible for necessary special environmental studies and permits and preparing the necessary National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) documents to satisfy the requirements of the project funded through the Federal Highway Administration's Highway Bridge Program (HBP). These tasks are expected to include, at a minimum: Environmental Field Review; Environmental Review for CEQA, NEPA and all required Technical Studies; Section 401 Water Quality Certification or waiver; Consultation with the US Fish & Wildlife Service (USFWS) will require USFWS concurrence with the proposed project mitigation, and to render an opinion that the project is not likely to adversely affect threatened or endangered species; Coordination with review and permitting agencies.*

Project Description: The project would construction 3 bridges over the Whitewater River in Palm Springs, Desert Hot Springs and county lands located in the western Coachella Valley consisting of improving the local agencies roads and bridges/culvert on the above-mentioned roads segments. Bridge/Culvert Structures shall be designed to convey 100-year flood events at White Water River, Chino Canyon Creek, Willow Wash, Long Canyon Wash crossings. The roads shall include bike lanes and other mitigation measure improvements for blowsand mitigation. The proposed improvements shall meet federal and state standards and requirements. The 3 segments are: INDIAN CANYON DRIVE (From Sunrise Parkway to Palm Station Road, INCN7); VARNER ROAD (From Mountain View Road to Date Palm Drive, VRNR2); and DATE PALM DRIVE (From I-10 to Varner Road, DPLM5).

Michael Baker prepared the feasibility study for the initial phase in 2020 and so we think we have a great shot at this.

Thanks!

Shelah Riggs | Senior Project Manager

3536 Conours, Suite 100 | Ontario, CA 91764 | [O] 909-589-2167 | [M] 909-419-4268
shelah.riggs@mbakerintl.com | www.mbakertnl.com



California Unified Certification Program

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Search Parameters

Certifications	<div>Disadvantaged Business Enterprise (DBE)</div>
Business Description	Cultural
State	CA
County	Los Angeles, Riverside, San Bernardino, San Diego
Work Districts/Regions	Riverside, San Bernardino

California Unified Certification Program Certified Directory

Fill Good LLC DBA Fill Good Landscaping

Owner	Email	Phone	Fax	Website		
Srividya Krishnan	sri@wefillgood.com	909-215-0260	909-396-7329	http://https://www.wefillgood.com		
Physical Address	Mailing Address	Ethnicity	Gender	Certifying Agency	Cert Type	
1401 Bodega Way Unit 1 Diamond Bar, CA 91765	PO Box 5741 Diamond Bar, CA 91765	Subcontinent Asian American	Female	Metro	DBE	

Capability

Landscaping and horticultural firm

Commodity Codes

221310 - Water Supply and Irrigation Systems; 541690 - Horticultural consulting services; 561730 - Landscaping Services; 621610 - Home Health Care Services

County	CUCP Public Directory Certification Number
Los Angeles	50817

JTL Consultants, LLC DBA N/A

Owner	Email	Phone	Fax	Website		
Jeannine Lubeshkoff	info@JTLconsultants.com	626-358-5690	626-358-5692	http://jtlconsultants.com		
Physical Address	Mailing Address	Ethnicity	Gender	Certifying Agency	Cert Type	
952 Buena Vista Street Duarte, CA 91010	952 Buena Vista Street Duarte, CA 91010	Caucasian	Female	Metro	DBE	

Capability

Environmental consulting services, specializing in arboricultural

Commodity Codes

541620 - Environmental consulting services; 541715 - Research and Development in the Physical, Engineering, and Life Sciences (except Nanotechnology and Biotechnology); 561730 - Arborist services

County	CUCP Public Directory Certification Number
Los Angeles	N/A

Kizh Nation Resources Management DBA Tribal Cultural Resource Consultants

Owner	Email	Phone	Fax	Website	Physical Address
Andrew Salas	admin@knrm-nsn.us	626-521-5827	626-521-5827	http://www.knrm-nsn.us	910 N. Citrus Ave Covina CA, CA 91722
Mailing Address	Ethnicity	Gender	Certifying Agency	Cert Type	
910 N. Citrus Ave Covina, CA 91722	Hispanic American	Male	Metro	DBE	

Capability

Environmental consulting for cultural, natural and palenotological

Commodity Codes

541620 - Environmental consulting services; 541690 - Other Scientific and Technical Consulting Services; 541990 - All Other Professional, Scientific, and Technical Services

County	CUCP Public Directory Certification Number
Los Angeles	44791

PETRA PRODUCTS, INC DBA PETRA RESOURCE MANAGEMENT

Owner	Email	Phone	Fax	Website	Physical Address
Sherri Andrews	sandrews@petra-rm.com	949-697-6667		http://www.petra-rm.com	8555 Aero Dr #206 San Diego, CA 92123
Mailing Address	Ethnicity	Gender	Certifying Agency	Cert Type	
7287 Las Plumas Ln Tujunga, CA 91042	Caucasian	Female	Metro	DBE	

Capability

Cultural resource management, archaeology and historical compliance.

Commodity Codes

541620 - Environmental consulting services; 541720 - Research and Development in the Social Sciences and Humanities; 541990 - All Other Professional, Scientific, and Technical Services; 712120 - Archeological sites (i.e., public display); 712120 - Historical sites

County	CUCP Public Directory Certification Number
San Diego	50920

California Unified Certification Program

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Search Parameters

Certifications	<div>Disadvantaged Business Enterprise (DBE)</div>
Business Description	Geotech
State	CA
County	Los Angeles, Riverside, San Bernardino, San Diego
Work Districts/Regions	Riverside, San Bernardino

California Unified Certification Program Certified Directory

AP Engineering and Testing, Inc.

Owner	Email	Phone	Fax	Website		
Justin Phukunhaphan	justin@aplaboratory.com	909-869-6316	909-869-6318	http://www.aplaboratory.com		
Physical Address	Mailing Address	Ethnicity	Gender	Certifying Agency	Cert Type	
2607 POMONA BOULEVARD POMONA, CA 91768	2607 POMONA BOULEVARD POMONA, CA 91768	Asian-Pacific American	Male	Metro	DBE	
Capability	Commodity Codes					
Geotechnical Engineering Services and Testing	541330 - Engineering services; 541380 - Testing Laboratories and Services					
County	CUCP Public Directory Certification Number					
Los Angeles	33877					

Gregg Drilling, LLC DBA Owned by Sealaska Corporation

Owner	Email	Phone	Fax	Website	Physical Address
Tim Boyd	kcabal@greggdrilling.com	562-427-6899	562-427-3314	http://www.greggdrilling.com	2726 Walnut Avenue Signal Hill, CA 90755
Mailing Address	Ethnicity	Gender	Certifying Agency	Cert Type	
2726 Walnut Avenue Signal Hill, CA 90755	Black American	Male	Metro	DBE	
Capability	Geotechnical, Environmental and Marine Site Investigation Contractor				
Commodity Codes	237110 - Water and Sewer Line and Related Structures Construction; 562910 - Remediation Services				County
					Los Angeles
CUCP Public Directory Certification Number	51016				

Terramar Environmental Consulting DBA Terramar Environmental Consulting

Owner	Email	Phone	Fax	Website		
Jennifer Morton	geologyjen@gmail.com	760-715-3154		http://https://www.terramar-environmental.com/		
Physical Address	Mailing Address	Ethnicity	Gender	Certifying Agency	Cert Type	
114 W D St Unit 110 Encinitas, CA 92024	114 W D St Unit 110 Encinitas, CA 92024	Hispanic American	Female	Metro	DBE	
Capability	Geotechnical environmental Consulting					
Commodity Codes	541360 - Geophysical Surveying and Mapping Services; 541620 - Environmental consulting services; 541715 - Research and Development in the Physical, Engineering, and Life Sciences (except Nanotechnology and Biotechnology)					
County	CUCP Public Directory Certification Number					
San Diego	49244					

Veteran Drilling

Owner	Email	Phone	Fax	Website	Physical Address
Frank Stolfi	frank@veterandrilling.com	714-863-0988		http://www.veterandrilling.com	2355 Vista Ridge Circle suite b Norco, CA 92860
Mailing Address	Ethnicity	Gender	Certifying Agency	Cert Type	
2355 Vista Ridge Circle suite b Norco, CA 92860	Hispanic American	Male	Caltrans	DBE	
Capability	We provide environmental and geotechnical drilling, high resolution site characterization tools, membrane interface probe (MIP), hydraulic profiling tool (HPT) electrical conductivity (EC), MIHPT, soil sampling, groundwater sampling, vapor sampling, well installation, cone penetrometer testing (CPT), seismic testing.				
Commodity Codes	213111 - Service well drilling on a contract basis; 541380 - Testing Laboratories and Services; C7600 - DEVELOP, TEST, DRILL, MAINTAIN WELLS; C8723 - Materials Testing Services				
County	CUCP Public Directory Certification Number				
Riverside	50636				

California Unified Certification Program

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Search Parameters

Certifications	<div>Disadvantaged Business Enterprise (DBE)</div>
Business Description	Right of Way
State	CA
County	Los Angeles, Riverside, San Bernardino, San Diego
Work Districts/Regions	Riverside, San Bernardino

California Unified Certification Program Certified Directory

16th & G Agency, Corp DBA The ROW Company

Owner	Email	Phone	Fax	Website	Physical Address
Michael Romo	info@rightofwayco.com	909-754-6310	909-754-6310	http://www.rightofwayco.com	1130 E Green St Pasadena, CA 91106

Mailing Address	Ethnicity	Gender	Certifying Agency	Cert Type	Capability
1130 E Green St Pasadena, CA 91106	Hispanic American	Male	Metro	DBE	Right of way consulting and real estate activities.

Commodity Codes	County
531210 - Offices of Real Estate Agents and Brokers; 531390 - Other Activities Related to Real Estate	Los Angeles

CUCP Public Directory Certification Number
47336

Romo Acquisition & Relocation Services, LLC

Owner	Email	Phone	Fax	Physical Address	Mailing Address
Rudy M. Romo	rudromo@aol.com	951-237-4680	866-261-5578	5585 Pacific Coast Hwy Long Beach, CA 90804	5585 Pacific Coast Hwy Long Beach, CA 90804

Ethnicity	Gender	Certifying Agency	Cert Type	Capability
Hispanic American	Male	Metro	DBE	Real estate broker and right of way related services

Commodity Codes	County
531210 - Offices of Real Estate Agents and Brokers; 531390 - Other Activities Related to Real Estate	Los Angeles

CUCP Public Directory Certification Number
48455

Michael Baker

I N T E R N A T I O N A L

We Make a Difference

MICHAEL BAKER INTERNATIONAL

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Palm Desert, CA 92211