

PROFESSIONAL SERVICES CONTRACT BETWEEN
THE CITY OF HUNTINGTON BEACH AND
MICHAEL BAKER INTERNATIONAL, INC.
FOR
ON-CALL CIVIL ENGINEERING
& PROFESSIONAL CONSULTING SERVICES

THIS AGREEMENT ("Agreement") is made and entered into by and between the City of Huntington Beach, a municipal corporation of the State of California, hereinafter referred to as "CITY," and CANNON CORPORATION, a California Corporation hereinafter referred to as "CONSULTANT."

WHEREAS, CITY desires to engage the services of a consultant to provide On-Call Civil Engineering & Professional Consulting Services; and

Pursuant to documentation on file in the office of the City Clerk, the provisions of the Huntington Beach Municipal Code, Chapter 3.03, relating to procurement of professional service contracts have been complied with; and

CONSULTANT has been selected to perform these services,

NOW, THEREFORE, it is agreed by CITY and CONSULTANT as follows:

1. SCOPE OF SERVICES

CONSULTANT shall provide all services as described in **Exhibit "A,"** which is attached hereto and incorporated into this Agreement by this reference. These services shall sometimes hereinafter be referred to as the "PROJECT."

CONSULTANT hereby designates Todd McIntyre who shall represent it and be its sole contact and agent in all consultations with CITY during the performance of this Agreement.

2. CITY STAFF ASSISTANCE

CITY shall assign a staff coordinator to work directly with CONSULTANT in the performance of this Agreement.

3. TERM; TIME OF PERFORMANCE

Time is of the essence of this Agreement. The services of CONSULTANT are to commence on _____, 20____ (the "Commencement Date"). This Agreement shall automatically terminate three (3) years from the Commencement Date, unless extended or sooner terminated as provided herein. All tasks specified in **Exhibit "A"** shall be completed no later than three (3) years from the Commencement Date. The time for performance of the tasks identified in **Exhibit "A"** are generally to be shown in **Exhibit "A."** This schedule may be amended to benefit the PROJECT if mutually agreed to in writing by CITY and CONSULTANT.

In the event the Commencement Date precedes the Effective Date, CONSULTANT shall be bound by all terms and conditions as provided herein.

4. COMPENSATION

In consideration of the performance of the services described herein, CITY agrees to pay CONSULTANT on a time and materials basis at the rates specified in **Exhibit "B,"** which is attached hereto and incorporated by reference into this Agreement, a fee, including all costs and expenses, not to exceed Two Million Dollars (\$2,000,000.00).

5. EXTRA WORK

In the event CITY requires additional services not included in **Exhibit "A"** or changes in the scope of services described in **Exhibit "A,"** CONSULTANT will undertake such work only after receiving written authorization from CITY. Additional compensation for such extra work shall be allowed only if the prior written approval of CITY is obtained.

6. METHOD OF PAYMENT

CONSULTANT shall be paid pursuant to the terms of **Exhibit "B."**

7. DISPOSITION OF PLANS, ESTIMATES AND OTHER DOCUMENTS

CONSULTANT agrees that title to all materials prepared hereunder, including, without limitation, all original drawings, designs, reports, both field and office notices, calculations, computer code, language, data or programs, maps, memoranda, letters and other documents, shall belong to CITY, and CONSULTANT shall turn these materials over to CITY upon expiration or termination of this Agreement or upon PROJECT completion, whichever shall occur first. These materials may be used by CITY as it sees fit.

8. HOLD HARMLESS

A. CONSULTANT hereby agrees to protect, defend, indemnify and hold harmless CITY, its officers, elected or appointed officials, employees, agents and volunteers from and against any and all claims, damages, losses, expenses, judgments, demands and defense costs (including, without limitation, costs and fees of litigation of every nature or liability of any kind or nature) arising out of or in connection with CONSULTANT's (or CONSULTANT's subcontractors, if any) negligent (or alleged negligent) performance of this Agreement or its failure to comply with any of its obligations contained in this Agreement by CONSULTANT, its officers, agents or employees except such loss or damage which was caused by the sole negligence or willful misconduct of CITY. CONSULTANT will conduct all defense at its sole cost and expense and CITY shall approve selection of CONSULTANT's counsel. This indemnity shall apply to all claims and liability regardless of whether any insurance policies are applicable. The policy limits do not act as limitation upon the amount of indemnification to be provided by CONSULTANT.

B. To the extent that CONSULTANT performs "Design Professional Services" within the meaning of Civil Code Section 2782.8, then the following Hold Harmless provision applies in place of subsection A above:

“CONSULTANT hereby agrees to protect, defend, indemnify and hold harmless CITY and its officers, elected or appointed officials, employees, agents and volunteers, from and against any and all claims, damages, losses, expenses, demands and defense costs (including, without limitation, costs and fees of litigation of every nature or liability of any kind or nature) to the extent that the claims against CONSULTANT arise out of, pertain to, or relate to the negligence, recklessness, or willful misconduct of CONSULTANT. In no event shall the cost to defend charged to CONSULTANT exceed CONSULTANT’s proportionate percentage of fault. However, notwithstanding the previous sentence, in the event one or more other defendants to the claims and/or litigation is unable to pay its share of defense costs due to bankruptcy or dissolution of the business, CONSULTANT shall meet and confer with CITY and other defendants regarding unpaid defense costs. The duty to indemnify, including the duty and the cost to defend, is limited as provided in California Civil Code Section 2782.8.

C. Regardless of whether subparagraph A or B applies, CITY shall be reimbursed by CONSULTANT for all costs and attorney’s fees incurred by CITY in enforcing this obligation. This indemnity shall apply to all claims and liability regardless of whether any insurance policies are applicable. The policy limits do not act as a limitation upon the amount of indemnification to be provided by CONSULTANT.

9. PROFESSIONAL LIABILITY INSURANCE

CONSULTANT shall obtain and furnish to CITY a professional liability insurance policy covering the work performed by it hereunder. This policy shall provide coverage for CONSULTANT’s professional liability in an amount not less than One Million Dollars (\$1,000,000.00) per occurrence and in the aggregate. The above-mentioned insurance shall not contain a self-insured retention without the express written consent of CITY; however an insurance

policy "deductible" of Ten Thousand Dollars (\$10,000.00) or less is permitted. A claims-made policy shall be acceptable if the policy further provides that:

- A. The policy retroactive date coincides with or precedes the initiation of the scope of work (including subsequent policies purchased as renewals or replacements).
- B. CONSULTANT shall notify CITY of circumstances or incidents that might give rise to future claims.

CONSULTANT will make every effort to maintain similar insurance during the required extended period of coverage following PROJECT completion. If insurance is terminated for any reason, CONSULTANT agrees to purchase an extended reporting provision of at least two (2) years to report claims arising from work performed in connection with this Agreement.

If CONSULTANT fails or refuses to produce or maintain the insurance required by this section or fails or refuses to furnish the CITY with required proof that insurance has been procured and is in force and paid for, the CITY shall have the right, at the CITY's election, to forthwith terminate this Agreement. Such termination shall not effect Consultant's right to be paid for its time and materials expended prior to notification of termination. CONSULTANT waives the right to receive compensation and agrees to indemnify the CITY for any work performed prior to approval of insurance by the CITY.

10. CERTIFICATE OF INSURANCE

Prior to commencing performance of the work hereunder, CONSULTANT shall furnish to CITY a certificate of insurance subject to approval of the City Attorney evidencing the foregoing insurance coverage as required by this Agreement; the certificate shall:

- A. provide the name and policy number of each carrier and policy;
- B. state that the policy is currently in force; and

- C. shall promise that such policy shall not be suspended, voided or canceled by either party, reduced in coverage or in limits except after thirty (30) days' prior written notice; however, ten (10) days' prior written notice in the event of cancellation for nonpayment of premium.

CONSULTANT shall maintain the foregoing insurance coverage in force until the work under this Agreement is fully completed and accepted by CITY.

The requirement for carrying the foregoing insurance coverage shall not derogate from CONSULTANT's defense, hold harmless and indemnification obligations as set forth in this Agreement. CITY or its representative shall at all times have the right to demand the original or a copy of the policy of insurance. CONSULTANT shall pay, in a prompt and timely manner, the premiums on the insurance hereinabove required.

11. INDEPENDENT CONTRACTOR

CONSULTANT is, and shall be, acting at all times in the performance of this Agreement as an independent contractor herein and not as an employee of CITY. CONSULTANT shall secure at its own cost and expense, and be responsible for any and all payment of all taxes, social security, state disability insurance compensation, unemployment compensation and other payroll deductions for CONSULTANT and its officers, agents and employees and all business licenses, if any, in connection with the PROJECT and/or the services to be performed hereunder.

12. TERMINATION OF AGREEMENT

All work required hereunder shall be performed in a good and workmanlike manner. CITY may terminate CONSULTANT's services hereunder at any time with or without cause, and whether or not the PROJECT is fully complete. Any termination of this Agreement by CITY shall be made in writing, notice of which shall be delivered to CONSULTANT as provided herein. In the

event of termination, all finished and unfinished documents, exhibits, report, and evidence shall, at the option of CITY, become its property and shall be promptly delivered to it by CONSULTANT.

13. ASSIGNMENT AND DELEGATION

This Agreement is a personal service contract and the work hereunder shall not be assigned, delegated or subcontracted by CONSULTANT to any other person or entity without the prior express written consent of CITY. If an assignment, delegation or subcontract is approved, all approved assignees, delegates and subconsultants must satisfy the insurance requirements as set forth in Sections 9 and 10 hereinabove.

14. COPYRIGHTS/PATENTS

CITY shall own all rights to any patent or copyright on any work, item or material produced as a result of this Agreement.

15. CITY EMPLOYEES AND OFFICIALS

CONSULTANT shall employ no CITY official nor any regular CITY employee in the work performed pursuant to this Agreement. No officer or employee of CITY shall have any financial interest in this Agreement in violation of the applicable provisions of the California Government Code.

16. NOTICES

Any notices, certificates, or other communications hereunder shall be given either by personal delivery to CONSULTANT's agent (as designated in Section 1 hereinabove) or to CITY as the situation shall warrant, or by enclosing the same in a sealed envelope, postage prepaid, and depositing the same in the United States Postal Service, to the addresses specified below. CITY and CONSULTANT may designate different addresses to which subsequent notices, certificates or other communications will be sent by notifying the other party via personal delivery, a reputable overnight carrier or U. S. certified mail-return receipt requested:

TO CITY:

City of Huntington Beach
ATTN: Director of Public Works
2000 Main Street
Huntington Beach, CA 92648

TO CONSULTANT:

Michael Baker International, Inc.
Attn: Todd McIntyre
5 Hutton Drive, Suite 500
Santa Ana, CA 92707

17. CONSENT

When CITY's consent/approval is required under this Agreement, its consent/approval for one transaction or event shall not be deemed to be a consent/approval to any subsequent occurrence of the same or any other transaction or event.

18. MODIFICATION

No waiver or modification of any language in this Agreement shall be valid unless in writing and duly executed by both parties.

19. SECTION HEADINGS

The titles, captions, section, paragraph and subject headings, and descriptive phrases at the beginning of the various sections in this Agreement are merely descriptive and are included solely for convenience of reference only and are not representative of matters included or excluded from such provisions, and do not interpret, define, limit or describe, or construe the intent of the parties or affect the construction or interpretation of any provision of this Agreement.

20. INTERPRETATION OF THIS AGREEMENT

The language of all parts of this Agreement shall in all cases be construed as a whole, according to its fair meaning, and not strictly for or against any of the parties. If any provision of this Agreement is held by an arbitrator or court of competent jurisdiction to be unenforceable, void, illegal or invalid, such holding shall not invalidate or affect the remaining covenants and provisions of this Agreement. No covenant or provision shall be deemed dependent upon any other unless so expressly provided here. As used in this Agreement, the masculine or neuter gender and singular or plural number shall be deemed to include the other whenever the

context so indicates or requires. Nothing contained herein shall be construed so as to require the commission of any act contrary to law, and wherever there is any conflict between any provision contained herein and any present or future statute, law, ordinance or regulation contrary to which the parties have no right to contract, then the latter shall prevail, and the provision of this Agreement which is hereby affected shall be curtailed and limited only to the extent necessary to bring it within the requirements of the law.

21. DUPLICATE ORIGINAL

The original of this Agreement and one or more copies hereto have been prepared and signed in counterparts as duplicate originals, each of which so executed shall, irrespective of the date of its execution and delivery, be deemed an original. Each duplicate original shall be deemed an original instrument as against any party who has signed it.

22. IMMIGRATION

CONSULTANT shall be responsible for full compliance with the immigration and naturalization laws of the United States and shall, in particular, comply with the provisions of the United States Code regarding employment verification.

23. LEGAL SERVICES SUBCONTRACTING PROHIBITED

CONSULTANT and CITY agree that CITY is not liable for payment of any subcontractor work involving legal services, and that such legal services are expressly outside the scope of services contemplated hereunder. CONSULTANT understands that pursuant to *Huntington Beach City Charter* Section 309, the City Attorney is the exclusive legal counsel for CITY; and CITY shall not be liable for payment of any legal services expenses incurred by CONSULTANT.

24. ATTORNEY'S FEES

In the event suit is brought by either party to construe, interpret and/or enforce the terms and/or provisions of this Agreement or to secure the performance hereof, each party shall bear its own attorney's fees, such that the prevailing party shall not be entitled to recover its attorney's fees from the nonprevailing party.

25. SURVIVAL

Terms and conditions of this Agreement, which by their sense and context survive the expiration or termination of this Agreement, shall so survive.

26. GOVERNING LAW

This Agreement shall be governed and construed in accordance with the laws of the State of California.

27. SIGNATORIES

Each undersigned represents and warrants that its signature hereinbelow has the power, authority and right to bind their respective parties to each of the terms of this Agreement, and shall indemnify CITY fully for any injuries or damages to CITY in the event that such authority or power is not, in fact, held by the signatory or is withdrawn.

28. ENTIRETY

The parties acknowledge and agree that they are entering into this Agreement freely and voluntarily following extensive arm's length negotiation, and that each has had the opportunity to consult with legal counsel prior to executing this Agreement. The parties also acknowledge and agree that no representations, inducements, promises, agreements or warranties, oral or otherwise, have been made by that party or anyone acting on that party's behalf, which are not embodied in this Agreement, and that that party has not executed this Agreement in reliance on any representation, inducement, promise, agreement, warranty, fact or circumstance not expressly set forth in this

Agreement. This Agreement, and the attached exhibits, contain the entire agreement between the parties respecting the subject matter of this Agreement, and supersede all prior understandings and agreements whether oral or in writing between the parties respecting the subject matter hereof.

29. EFFECTIVE DATE

This Agreement shall be effective on the date of its approval by the City Council.

This Agreement shall expire when terminated as provided herein.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by and through their authorized officers.

CONSULTANT,
MICHAEL BAKER INTERNATIONAL,
INC.

CITY OF HUNTINGTON BEACH, a
municipal corporation of the State of
California

By: Richard Beck
Richard Beck, Vice President

Mayor

print name

ITS: (circle one) Chairman/President/Vice President

City Clerk

AND

By: TRUDY LIM
TRUDY LIM, ASSISTANT SECRETARY

INITIATED AND APPROVED:

Director of Public Works

ITS: (circle one) Secretary/Chief Financial Officer/Asst.

Secretary Treasurer

REVIEWED AND APPROVED:

City Manager

APPROVED AS TO FORM:

City Attorney

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and through their authorized officers.

CONSULTANT,
MICHAEL BAKER INTERNATIONAL,
INC.

CITY OF HUNTINGTON BEACH, a
municipal corporation of the State of
California

By: _____

print name

ITS: (circle one) Chairman/President/Vice President

AND

By: _____

print name

ITS: (circle one) Secretary/Chief Financial Officer/Asst.
Secretary - Treasurer

Mayor

City Clerk

INITIATED AND APPROVED:

Director of Public Works

REVIEWED AND APPROVED:

City Manager

APPROVED AS TO FORM:

City Attorney

EXHIBIT "A"

A. STATEMENT OF WORK: (Narrative of work to be performed)

Provide On-Call Civil Engineering and Professional Consulting Services. If Consultant chooses to assign different personnel to the project, Consultant must submit names and qualifications of these staff to City for approval before commencing work.

B. CONSULTANT'S DUTIES AND RESPONSIBILITIES:

See Attached Exhibit A

C. CITY'S DUTIES AND RESPONSIBILITIES:

1. Furnish Scope of Work and provide a request for proposal for each project.
2. City shall issue a task order for each project based upon scope of services, work schedule, and fee proposal submitted.

D. WORK PROGRAM/PROJECT SCHEDULE:

A project schedule will be developed for each project assigned by the City.

EXHIBIT A

DISCIPLINES OF CIVIL ENGINEERING SERVICES APPLICATION FORM

Disciplines of Civil Engineering Services Application Form

Circle all that apply

Civil Engineering Service Area	Bidding? Y/N (circle)
• Water/Sewer/Storm Water Engineering	<input checked="" type="checkbox"/> Yes / No
• General Civil Engineering	<input checked="" type="checkbox"/> Yes / No
• Ocean Engineering	Yes / <input checked="" type="checkbox"/> No
• Environmental/Water Quality	<input checked="" type="checkbox"/> Yes / No

A. VENDOR APPLICATION FORM AND COVER LETTER

REQUEST FOR PROPOSAL VENDOR APPLICATION FORM

TYPE OF APPLICANT: ☐ NEW ☒ CURRENT VENDOR

Legal Contractual Name of Corporation: Michael Baker International, Inc.

Contact Person for Agreement: Todd McIntyre, PE Principal-in-Charge

Corporate Mailing Address: 5 Hutton Centre Drive, Suite 500

City, State and Zip Code: Santa Ana, CA 92707

E-Mail Address: todd.mcintyre@mbakerintl.com

Phone: 949-330-4150 Fax: 949-472-8373

Contact Person for Proposals: John Nagle

Title: Department Manager E-Mail Address: jnagle@mbakerintl.com

Business Telephone: 949-330-4275 Business Fax: 949-472-8373

Year Business was Established: 1940

Is your business: (check one)

☐ NON PROFIT CORPORATION ☒ FOR PROFIT CORPORATION

Is your business: (check one)

☒ CORPORATION ☐ LIMITED LIABILITY PARTNERSHIP
☐ INDIVIDUAL ☐ SOLE PROPRIETORSHIP
☐ PARTNERSHIP ☐ UNINCORPORATED ASSOCIATION

Names & Titles of Corporate Board Members

(Also list Names & Titles of persons with written authorization/resolution to sign contracts)

Names	Title	Phone
Thomas J. Campbell	Chairman	(412) 269-6300
Brian A. Lutes	Chief Executive Officer	(412) 269-6300
Richard Driggs	Chief Operating Officer	(412) 269-6300
Christopher Statham	Chief Financial Officer	(412) 269-6300
Robert Balanti	Chief Human Resources Officer	(412) 269-6300
John Tedder	Chief Legal Officer	(412) 269-6300

Federal Tax Identification Number: 25-1228638

City of Huntington Beach Business License Number: A296516
(If none, you must obtain a Huntington Beach Business License upon award of contract.)

City of Huntington Beach Business License Expiration Date: 5-31-2025

A. COVER LETTER

Michael Baker
INTERNATIONAL

MARCH 13, 2025

City of Huntington Beach
Public Works Department
2000 Main Street
Huntington Beach, CA 92648

Submitted Via: PlanetBids

ON-CALL CIVIL ENGINEERING PROFESSIONAL CONSULTING SERVICES

A. WATER/SEWER/STORM WATER ENGINEERING

B. GENERAL CIVIL ENGINEERING

D. ENVIRONMENTAL/WATER QUALITY

RE: ON-CALL CIVIL ENGINEERING PROFESSIONAL CONSULTING SERVICES

Dear Members of the Selection Committee:

To support the projects anticipated as a part of this contract, the City of Huntington Beach (the City) needs a Consultant who has the right combination of experience, expertise, responsiveness, and dependability combined with demonstrated success in **delivering design, civil, water, sewer engineering, surveying and environmental services for public infrastructure**. Michael Baker International Inc. (Michael Baker) has worked side-by-side with municipalities and public agencies in Huntington Beach and across Orange County for more than 80 years and has been the **consultant of choice** for many of these agencies and cities. We have held on-call contracts for many years with public agencies, including the City, the City of San Clemente, the County of Orange, Caltrans District 12 and many more. We have the resources and expertise at hand to quickly assist the City in responding to and delivering on its infrastructure commitments.

Michael Baker is passionate about serving the City and looks forward to strengthening our relationships by collaborating with City staff. **The contract will be managed from our office in Santa Ana located at 5 Hutton Centre Drive, Suite 500 in Santa Ana, California, just 10 miles from City offices.**

The Michael Baker team, in partnership with our trusted **subconsultants, Boudreau Pipeline for utility potholing and LaBelle Marvin for pavement rehabilitation**, brings the following benefits to the City:

ON-CALL PROJECT EXPERIENCE

Michael Baker has held more than 150 on-call contracts with over 60 Southern California municipal agencies. Our projects range from small, routine tasks to large, complex multi-million dollar endeavors with nearly 85 years of experience. We understand that on-call projects can vary in size and scope. We will leverage our decades of experience to deliver on-time and within budget projects.



IN-HOUSE TEAM OF EXPERTS

Our comprehensive team of in-house experts is unique to Michael Baker and will deliver efficient and cost-effective projects. We offer a full-service experience that spans preliminary design and studies through construction management with experts available each step of the way. With a deep bench of resources, Michael Baker can provide the City with flexibility, quick response times, streamlined communication, and the proven ability to accommodate project needs.



FAMILIARITY WITH THE CITY

Members of our team are currently providing a variety of services to the City on several important projects including Saybrook Lift Station, Well 3A Treatment, and Humboldt Lift Station. Our combined knowledge of the City and local agencies' regulations will help our team provide effective service grounded in open communication.



To provide the City with exceptional services, **Contract Manager and Water/Sewer/Storm Water Engineering Discipline Lead John Nagle, PE**, will serve as the City's point of contact and will utilize his expertise in leading teams and project management skills to deliver every task order on-time and within budget. Mr. Nagle has effectively and successfully served as Contract Manager for numerous on-call contracts for public agencies throughout California.

Sarmad Farjo, PE, General Civil Engineering Discipline Lead: Sarmad's expertise is in roadway design, civil and site design, complete streets, bridge and parking lot as well as multidisciplinary infrastructure for local and regional agencies and clients. He is familiar with the environmental clearance and regulatory permitting process. Sarmad's extensive design and management experience will greatly benefit the City on this contract. Supporting Sarmad on this contract is **Steve Slocum, PLS for Land Surveying Services.**

Terrence Chen, PE, QSD/QSP, Environmental and Water Quality Discipline Lead: Terrance's extensive stormwater experience ranges from projects that involve compliance with stormwater management, such as siting and designing water quality best management practices (BMPs), inspections, and inventory via mobile GPS devices or GIS tablet solutions, and developing asset management software/database. Terrance also has local water quality experience with Orange County Public Works (OCPW), assisting the County with on-call water quality management plan (WQMP) implementation, focused on meeting post-construction permit requirements with low impact development (LID) and hydromodification controls for new development and significant redevelopment.

- Michael Baker has read, understands, and agrees to all of the statements identified in this Request for Proposal and acknowledge receipt of Q&A Set 1, dated 2/26/25, in addition to the Terms, Conditions.
- Michael Baker is willing to execute the agreement as drafted and will also meet the insurance requirements.
- This proposal price is valid for a 180 days.

WE ARE READY AND AVAILABLE TO SERVE YOU

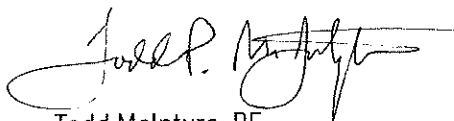
Please contact Contract Manager John Nagle at 949-330-4275 or jnagle@mbakerintl.com for additional information or to schedule an interview.

Sincerely,

MICHAEL BAKER INTERNATIONAL, INC.



John Nagle, PE
Contract Manager
jnagle@mbakerintl.com
949-330-4275



Todd McIntyre, PE
Principal-in-Charge
Authorized to bind the Firm
todd.mcintyre@mbakerintl.com
949-330-4150

Michael Baker, brings over a decade of experience working with the City and collaborating with neighboring agencies such as Mesa Water District, the Division of Drinking Water, and Orange County Flood Control, the City gains a partner who understands its unique challenges. This partnership ensures effective maintenance of aging facilities, comprehensive citywide infrastructure maintenance, and successful rehabilitation of wells and treatment projects, ultimately improving the quality of life for residents.

B. BACKGROUND AND PROJECT SUMMARY

A FULL-SERVICE PLANNING, ENGINEERING, SURVEYING, AND CONSTRUCTION MANAGEMENT FIRM

Michael Baker plays an active role in the development of public works projects throughout Orange County, providing planning and design services for streets, highways, storm drain systems, sanitary sewer systems, and water facilities as well as the rehabilitation or replacement of existing facilities.

For the past 85 years, Michael Baker has become the consultant of choice for numerous agencies and cities in the County and has held **on-call contracts for similar civil engineering services for many years with:**

- The City of Huntington Beach (the City)
- The County of Orange
- Orange County Transportation Authority (OCTA)
- Caltrans District 12

Michael Baker has held over 150 on-call contracts throughout Southern California with state, local, and municipal agencies including current on-calls with the City's Public Works Department.

Michael Baker understands the types of projects that may be authorized under this on-call contract and has assembled a team to provide a breadth of engineering expertise to deliver projects successfully. We are excited to work on this type of contract since it highlights our collaborative nature and desire to help the City across multiple disciplines. Our engineering staff is local, which allows prompt responses to any task order assignment. Michael Baker's team comprises industry experts with a long history in Orange County and a demonstrated track record of successfully delivering a full range of projects covering water, wastewater, stormwater, civil, water quality, and environmental disciplines. Our team brings the resources of more than 250 employees in our Santa Ana office, just minutes from Huntington Beach with access to more than 4,000+ highly qualified professionals company-wide.

2024 ENR RANKINGS

THE TOP
500
DESIGN FIRMS

28 Top 500 Design Firms

18 Top 100 Pure Designers

5 Bridges

6 Dams & Reservoirs

11 Water Supply

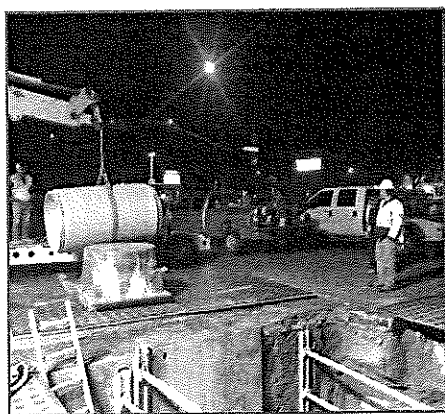
13 Transportation

16 Construction Management

16 Highways

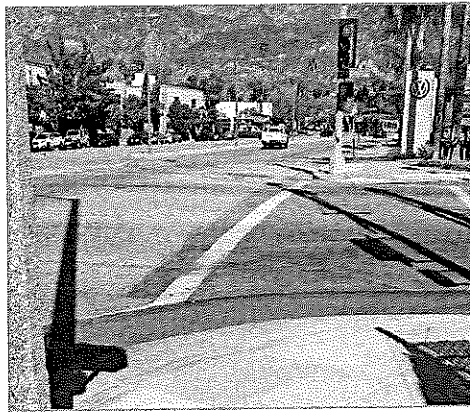
18 Airports

21 Mass Transit & Rail



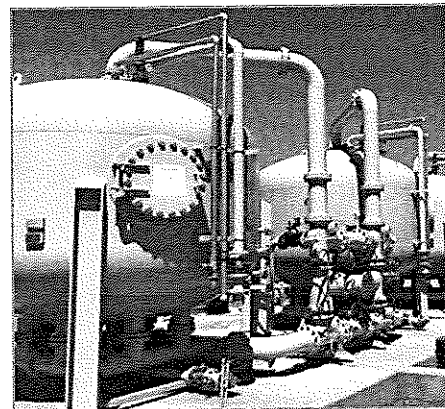
OC-44 Transmission Main Emergency Repair. Engineering and Construction Support Services.

Client: Huntington Beach and Mesa Water District.



Repair and Improve Transportation and Flood Systems. Design Services.

Client: Los Angeles County, Department of Public Works.



Groundwater PFAS Treatment Plant, Phases A and B. Construction Management and Inspection Services.

Client: City of Anaheim.



For more than 20 years, Michael Baker has provided as-needed water/wastewater engineering and supporting services for local water districts and cities, including:

- Long Beach Utilities Department
- Santa Clarita Valley Water Agency
- Orange County Sanitation District (OCSD)
- Mesa Water District
- Eastern Municipal Water District

Our expertise encompasses water transmission mains, water model updates, sub-area master plan updates, utility relocation engineering, and design.

POTABLE WATER AND SANITARY SEWER DISTRIBUTION

Michael Baker's staff has extensive knowledge and experience with designing new, rehabilitating, or replacing existing water and sewer facilities, infrastructure, and distribution pipelines. **Michael Baker has considerable experience in pipeline design ranging from small to large diameter, including welded steel pipe, ductile iron pipe (DIP), high-density polyethylene (HDPE) pipe, and polyvinyl chloride (PVC) pipe.**

Michael Baker's design experience in the traditional aspects of pipeline design includes alternative alignment analysis, materials selection, hydraulic and transient analysis, hydraulic modeling, and cost estimates, as well as state-of-the-art technology and construction methods, including directional drilling, pipe-bursting, and micro-tunneling. Trenchless technology is a specialty of our pipeline services group, and our engineers are experienced in trenchless design and the latest construction techniques available in the industry. The Michael Baker team also includes engineers who are familiar with pumping stations and storage reservoirs of all types in addition to pipeline design and replacement.

WATER PRODUCTION IMPROVEMENTS

Successful well treatment and pump station design provides a dependable, easy to maintain, energy-efficient facility and meets the intent of the project. As part of our design process, we evaluate the site location, ease of access, maintenance, and operation. Our team works to ensure that the City's preferences are incorporated into the design and controls of the facility, and that material and equipment preferences are incorporated. Michael Baker performed preliminary studies and final design services to identify options, recommend upgrades, and provide final construction plans for numerous potable water pump stations, well equipping, and wellhead treatment projects.

WATER, SEWER, STORMWATER DISCIPLINE LEAD JOHN NAGLE, PE

Mr. Nagle's experience includes:

- Humboldt Lift Station. City of Huntington Beach.
- OC-44 Pipeline Rehabilitation. Mesa Water District.
- 3-64A Orange/Western Trunk Sewer Rehabilitation. OCSD.



Past projects include the Marshall Bowen Pump Station (City of Whittier) and Sterling Pump Station (Western Municipal Water District). Design included construction phasing plans, upgrades to Supervisory Control and Data Acquisition (SCADA) and electrical instrumentation. Michael Baker also completed the preliminary design for the City's Well 3A treatment system.

SEWER LIFT STATION IMPROVEMENTS

Michael Baker has provided design for more than 40 lift stations, including the City's Saybrook and Humboldt Lift Stations. Our clients have included water/wastewater agencies, cities, the State of California, and private entities. Past projects have included Spring Canyon Lift Station and Force Mains in the City of Santa Clarita; North Bank Lift Station Upgrades for the City of San Buenaventura; MacArthur Force Main Improvements OCSD; and assessment of 30 lift stations for the Port of Long Beach as part of their Sewer Master Plan and Capital Improvement Program.

We recently completed a condition assessment of several sewer lift stations for the City of Norco and are currently working with the City to prioritize the final design of upgrades.

Our Santa Ana based team includes over 30 water/wastewater specialists and a full-service support team with experience designing pump stations for public agency clients. Michael Baker offers more than traditional engineering solutions. **These additional solutions include site-specific planning and design considerations such as:**

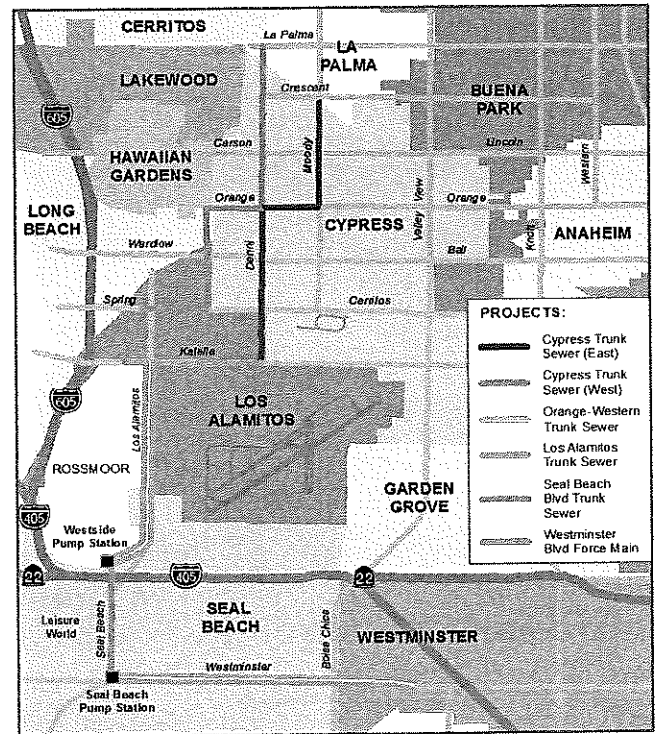
- Aesthetic/architectural impacts.
- Surge impacts.
- Selection of alternative materials.
- Energy efficient designs.
- Environmentally sensitive designs.
- Overall system analysis & odor control.
- Sound attenuation.



STORMWATER ENGINEERING

Michael Baker provides on-site drainage design capabilities through its team of expert planners and designers. On-site drainage design is accomplished with the end in mind by fully understanding the project goals such as flood control and stormwater quality and working towards them within the framework of the project's design criteria to carry out the design from rough grading to final plan production. Our history of drainage design experience ensures that the site's storm drain components such as pipes, catch basin, and stormwater features will have been sized efficiently and per the City's design guidelines. Our team brings decades of experience using AutoCad Civil 3D during the design phases and plan production.

Michael Baker provides drainage design services that include the analysis and design of hydraulic and hydrologic systems. Key components of this work include plan preparation; stormwater quality analysis; floodplain determination; drainage reports; storm drain, culvert, and bridge design; plans, specifications, and estimates (PS&E); and all other relevant project documentation. Our expertise also includes channel modeling and restoration; river modeling; scour analysis and countermeasure design; and culvert crossings.



Western Regional Trunk Sew Rehabilitation OCS

WATER AND WASTEWATER MASTER PLAN UPDATES

Michael Baker's Water/Wastewater Team provides master planning services for regional water distribution systems and wastewater collection systems. Recent experience includes Sub-Area Master Plan Updates for the Tustin Legacy Specific Plan Area in Tustin, the Orange Heights Development in the City of Orange, and the Southwest Area Hydraulic Analysis for the Santa Clarita Valley Water Agency. Our engineers and technical staff are experienced with state-of-the-art software platforms, including Innovyze (Autodesk) software. Our experience also includes integration with GIS platforms, transient (surge) analysis, and computational fluid dynamic (CFD) modeling.

For hydraulic analyses, our team is experienced developing new models, updating and calibrating existing models, and developing capital improvement programs. We incorporate data from hydrant flow tests and pressure data loggers for distribution systems, and from flow monitoring and CCTV inspections for wastewater collection systems. We recognize that it's essential to incorporate the input of both engineering and operations teams to ensure the accuracy of hydraulic models and the successful implementation of the master plan.

Current and past clients include:

- Santa Clarita Valley Water Agency
- City of Brea
- City of Corona
- City of Tustin
- Mesa Water District
- Santa Margarita Water District
- City of Whittier
- Irvine Ranch Water District
- City of Redlands



Michael Baker's Civil Engineering Services encompass in-house structural engineering; mechanical, electrical engineering; survey and right-of-way mapping; geographic information technology; as well as construction management and inspection.

STREET AND PARKWAY IMPROVEMENTS

Michael Baker has designed various types and sizes of street improvements and can assist Public Works with any type of roadway project including Americans with Disabilities Act (ADA) accessibility, Safe Routes to School (SR2S), active transportation, and large infrastructure improvements. We have staff with the experience and expertise to handle large highway projects (such as the I-10/Robertson/National Interchange), arterial and local road improvements, ADA improvements, and residential roadways and alleyways development. Our focus is on improving mobility for all modes of travel (i.e. vehicular, bicycle, pedestrian, transit), improving safety in line with "Vision Zero" (to end all traffic deaths and serious injuries within our project locations), and implementing complete streets and green streets concepts whenever possible.

Sustainable complete streets are a growing movement due in part to a state law requiring all modes of transportation to be assessed when any work on a street is undertaken, and the requirement in stormwater permits to retrofit public works infrastructure with LID practices. Michael Baker team members have been actively involved with integrating planning, traffic, civil design, stormwater, and landscape architecture to incorporate these elements into complete or green street projects.

For example, **Michael Baker served as the design engineer for the Washington Boulevard Reconstruction project that reconstructed and widened 2.8 miles of arterial roadway in the City of Commerce.** The goals for the project consisted of improved traffic control measures, reduced traffic delays, and beautification to enhance the quality of life for commuters and the surrounding communities.

BRIDGE DESIGN

Michael Baker has extensive experience designing bridges and is nationally recognized as one of the top bridge firms in the U.S. **We are currently ranked as #5 of the Top Bridge Design Firms by ENR.**

GENERAL CIVIL ENGINEERING DISCIPLINE LEAD SARMAD FARJO, PE

Mr. Farjo's experience includes:

- Bastanchury Road Widening. City of Yorba Linda.
- Valley Boulevard and Main Street Complete Streets Feasibility Study. City of El Monte.
- Norco Bluffs Haul Route Pavement Investigation. OCPW.



Our California bridge design staff has completed more than 400 bridge projects in the state. In addition to the design of new bridges, work has included bridge replacements, pedestrian and bicycle crossings, bridge widening, rehabilitation, and seismic retrofit design. Through the successful delivery of these projects, Michael Baker has developed an efficient and logical approach to bridge design and development of final deliverables.

Michael Baker has the expertise to support the County with any necessary updates or new requests for additional Highway Bridge Program (HBP) funding by coordinating and obtaining approval from Caltrans Structural Local Assistance.

We excel in the assessment management of entire bridge inventories that range from the proactive bridge in-service AASHTO-NHI inspection process to emergency inspections. We report on defects and deterioration of the bridges; investigate damage as necessary; quantify required maintenance, rehabilitation, and retrofit needs; prioritize the inventory based on our unique methodologies; and assist with programming using HBP funding.

LANDSCAPE ARCHITECTURE

Michael Baker's landscape architecture group encompasses a full complement of technical, practical, and creative talent to service public clients' landscape architectural needs. In addition to our experience preparing conceptual and final (PS&E), work tasks also include community outreach programs, design and preparation of presentation quality landscape concept plans, photo-realistic visual simulations and analysis, irrigation system master planning, and construction inspection services.



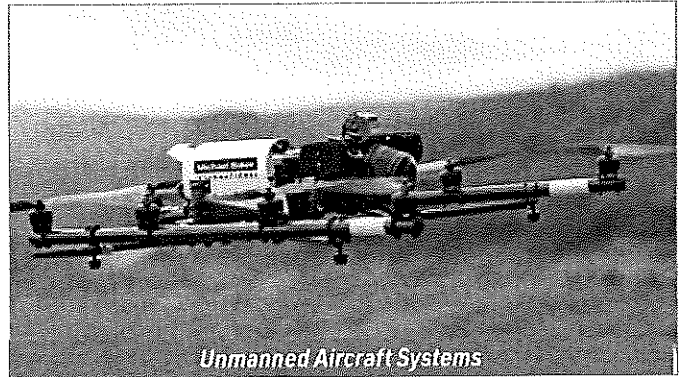
LAND SURVEYING

As a vital component of many civil engineering projects, the Michael Baker team has provided a host of survey and other related services for many public agencies in Southern California. These services include boundary surveys on properties, topographic surveys in conventional survey and aerial mapping varieties, legal descriptions and plots for acquisition, preparation of vacation maps and processing for street vacations, survey research, and parcel maps.

Michael Baker survey personnel have performed complete project services, from initial design topography through final monumentation and construction staking on many public and private developments. All survey crews work under the supervision of a registered California licensed Professional Land Surveyor.

Our survey crews are equipped with the latest survey equipment state-of-the-art instruments, field computers, **digital levels, Robotic Total Stations, GNSS receivers, and Data Collectors linked to cloud-based data storage and communication programs.** Field data collectors are wirelessly interfaced with our office-wide area network computer system and Internet uplink to ensure accurate and timely information transfers. This means fast turnarounds for tightly scheduled projects.

Survey vehicles are equipped with radios and cell phones for efficient and effective response time. Vehicles are kept in excellent working order, and have the necessary supplies (stakes, flagging, nails) and safety equipment, such as traffic cones, signs, and beacons, to accommodate safe working conditions day and night.



Unmanned Aircraft Systems



Ground Penetrating Radar

Safety and Accident Protection

At Michael Baker, employee safety is a top priority, managed with the same rigor as quality, productivity, and cost control. We use the S.L.A.M. process (Stop, Look, Assess, Manage) to promote daily vigilance."

- **STOP** and consider risk in surroundings/environment.
- **LOOK** for hazards with harm potential found in mobile equipment, traffic, weather, noise, or dust, while driving, or working with sharp or heavy tools.
- **ASSESS** the risk (a function of consequence and likelihood) by gauging potential harm from adverse interactions.
- **MANAGE** the risk through S.L.A.M. rules, procedures, and permits, situational awareness and task training.



Top of the Line Survey Trucks



ENVIRONMENTAL STUDIES

All under a single roof, Michael Baker is capable of preparing technical studies, peer reviews, and regulatory permitting, and can provide engineering/planning assistance if necessary to support any EIR/EIS, MND, Initial Study/EA, or Preliminary Environmental Study (PES) Form. Michael Baker has assembled an exceptional team of professionals with the capabilities to react to the diverse range of projects that could arise from the City's on-call contract.

The Michael Baker Team provides defensible and technically accurate California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) documentation and can mobilize promptly and cost-effectively. Michael Baker has:

- A diverse team of in-house technical specialists.
- Provided environmental services to southern California clients for 40 years, giving us a unique understanding of the project area.
- A proven track record for successful completion of the environmental clearance documentation process.
- Excels in streamlining environmental documents, leveraging experience with Orange County agencies and strong ties with Caltrans District 12.
- Expertise with Caltrans Standard Environmental Reference (SER) ensures efficient CEQA/NEPA review, reducing review times and expediting approvals.

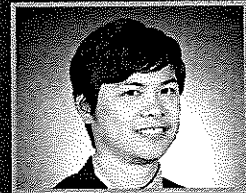
WATER QUALITY/LID

Michael Baker's experience with municipal water quality and stormwater programs will benefit the City. Our team has worked under the North Orange County MS4 Permit for 20 years, supporting the County and local cities. This expertise ensures we can address local water quality issues and understand the broader impact on the City's water quality program.

Michael Baker will assist City staff in reviewing, evaluating, and recommending LID BMPs for Capital Improvement Program projects and stormwater systems. With experience in planning, design, construction, and inspection, we are ready to support the City immediately. Michael Baker has developed standard LID designs and inspection training for Orange County and will use this expertise to help the City address regional stormwater challenges.

Recently, we completed a city-wide analysis of stormwater BMP retrofit opportunities for Culver City, incorporating LiDAR, MS4 storm drain system, and GIS data. This analysis identified and prioritized BMP retrofit opportunities, resulting in concept plans to support grant applications and public communication. We also provided interactive compliance tools for the City of San Diego.

ENVIRONMENTAL AND WATER QUALITY DISCIPLINE LEAD TERRENCE CHEN, PE, QSD/P



Mr. Chen's experience includes:

- Pacific Coast Highway, Bolsa Chica Coastal Erosion Assessment, Huntington Beach. Caltrans, District 12
- Aquatic Life Toxicity Studies Upper Newport Bay Watershed. County of Orange.
- Storm Water Permit Implementation Assistance, County of Orange.

GRANT APPLICATIONS

Michael Baker will consult with City staff to identify and secure Federal, State, and local funding for infrastructure projects. We will develop a scoping plan to identify qualifying project components, funding requirements, and potential obligations. Once grant sources are identified, we will assist in preparing formal applications and supporting materials. With experience in grant services, engineering, planning, and design, Michael Baker can help municipalities secure funding for critical projects. **Our experts can:**

- Research and identify funding opportunities for planning, environmental, and capital improvement projects.
- Develop proposals in response to specific requests for information, including detailed project descriptions, benefits, and desired outcomes.
- Provide grant management and implementation, coordinating active tasks and tracking financial performance against grant outcomes.
- Track and verify compliance with grant requirements, including labor compliance.
- Provide grant monitoring and reporting to funding agency.

CONSTRUCTION SUPPORT SERVICES

When an engineering project transitions from final design to bid and construction, a designer's role shifts onto assistance during the actual implementation of the design. Michael Baker is well adept at this transition and can assist them in several ways. Michael Baker's Engineering staff will work closely with the Construction Management and Inspection team. If requested, Michael Baker can provide any of the typical Construction Services including:

- Interpretation of plans and specifications.
- Review of RFIs and/or submittals.
- Bid document and procurement support.
- Program closeout support and commissioning.
- Attending project meetings and as-requested support.
- Value engineering and Constructability review.
- Update drawings from contractors and/or construction managers redline drawings.



MONITORING AND INSPECTIONS

Michael Baker has developed a thoughtful approach to performing maintenance, monitoring, and inspections based on our extensive experience with municipal stormwater programs.

INSPECTIONS

Our team will ensure that inspections of commercial/ industrial and City's facilities are consistent with the requirements detailed in the MS4 Permit, Industrial General Permit (IGP), Orange County Drainage Area Management Plan, and the City's Local Implementation Plan (LIP) (e.g., specific facility prioritization procedures, inspection frequencies, follow up time frames, necessary BMPs, and annual reporting requirements).

For example, the Michael Baker team may assist with updating facility prioritization, if needed, to ensure facilities are categorized as either having a high, medium, or low threat to water quality based on the following factors:

- Type of activity conducted and Standard Industrial Classification (SIC) code
- Materials used at the facility
- Amount and type of waste generated
- Pollutant discharge potential
- Non-stormwater discharges
- Size of facility (% of impervious surface)
- Proximity to receiving water bodies

Other relevant factors that may also be considered include:

- Sensitivity of receiving water bodies
- Whether the facility is subject to the IGP or an individual National Pollutant Discharge Elimination System (NPDES) permit
- Whether the facility has filed a No Exposure Certification/Notice of Non-Applicability
- Facility design
- Total area of the site, area of the site where industrial or commercial activities occur, and area of the site exposed to rainfall and runoff
- Compliance history

This updated list may be used to schedule inspections, as the MS4 Permit details required inspection frequencies are based on the facility's assigned prioritization (i.e., low, medium, or high). Michael Baker will review and update the City's inspection form templates for MS4 Permit, Construction General Permit (CGP), and IGP compliance. Collaborating with City inspectors, they will recommend updates based on the revised Stormwater Program and Standard Operating Procedures (SOPs), incorporating feedback and best practices from the City's inspection experience.



The City prides itself on being a "good neighbor" when facing downstream challenges. We have assembled a skilled team to monitor selenium, copper, sediment, and bacteria, ensuring effective and efficient efforts.

Our experts prepare and revise monitoring plans, provide field support, supply equipment, review data, analyze flow, develop models, calculate pollutant loadings, and report results.

Our approach ensures that staff understand objectives, use correct equipment, follow protocols, and adhere to safety plans. We can bring in additional staff and rent equipment for intensive monitoring needs.

The updates aim to streamline and simplify inspections, increasing accuracy to reduce noncompliance. Michael Baker will consult with City staff on electronic reporting platforms, which offer real-time reporting, automated report generation and distribution, data metrics, paperless reports, and reminder notifications.

WATER QUALITY/SEDIMENT SAMPLING & MONITORING PROGRAMS

The City's monitoring is generally completed through OCPW but may require supplemental support or technical oversight in Huntington Harbour, Anaheim Bay, Santa Ana River, and Outer Bolsa Chica Wetlands. This support necessitates a detailed understanding of monitoring programs and total maximum daily load (TMDL), ensuring the City remains compliant. Michael Baker routinely develops compliance monitoring programs and performs field sampling that covers nearly every aspect of stormwater management, including dry-weather diversions, BMP effectiveness, CGP or trash compliance, ambient condition, biological/microbial source tracking, and TMDL monitoring.

Our expertise in sediment sampling spans both wetland restoration sites, like Bolsa Chica, and complex urban environments within the Los Angeles Harbor.

The Michael Baker project team is vital to our company's success, ensuring projects are completed efficiently, on time, and within budget through their expertise and coordination. Our multidisciplinary approach guarantees comprehensive project management.

C. METHODOLOGY

IMPLEMENTATION PLAN

Michael Baker understands the City's goals and mission to design, build, and maintain the City's infrastructure functionally and sustainably that improve the quality of the City's residents, businesses, and visitors. Michael Baker shares the goals and mission of the City's Public Works Department and can help the City reach them with our multi-disciplined and local engineering team.

Our team can oversee and maintain schedule and quality control by integrating all engineering disciplines thereby creating cohesive responses to issues facing the City. Our focus is on the success of the City's task order goals drawing from our experience and lessons learned from previous task orders with the City as well as services provided to other local municipalities through on-call contracts.

In reviewing the RFQ to understand the type of projects involved and based on our staff's previous experience, we understand that the City is seeking to hire qualified engineering consultants to assist the City's staff across all disciplines within the Public Works Department. Successful project delivery demands a logical project team structure, an organized work plan, and a well-planned management approach. Michael Baker's approach is based on the establishment of an overall Project Management Plan (PMP) that defines the roles and responsibilities of our team leadership, parameters for implementing the scope of services, and the use of communication tools to ensure effective coordination.

This document provides a detailed plan for the execution of the project. It will also include the roles and responsibilities of each team member and a Specific Quality Management Plan for each task. The PMP will also include the project Communication Plan intended to ensure proper and efficient communication protocol within the project team.

Michael Baker Requests City Staff:

- Respond to Data Requests
- Participate in Status and Review Meetings
- Adhere to Review Schedules
- Maintain Clear and Consistent Communication

PROJECT MANAGEMENT

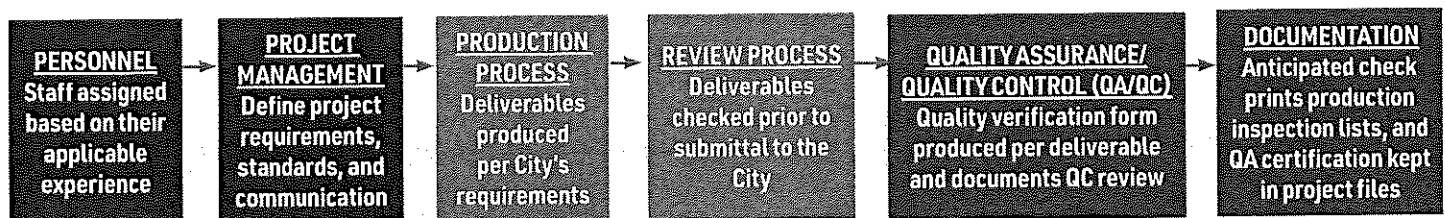
Contract Manager, John Nagle, is supported by a team of specialized Discipline Leads who have worked with our technical personnel delivering multiple Task Orders under on-call contracts across Southern California. Todd McIntyre, PE, our Principal-in-Charge, will commit and deploy the resources necessary to complete tasks and provide accountability for quality and timely delivery.

COORDINATION AND COMMUNICATION

Contract Manager, John Nagle, PE, will be the primary point of contact for the duration of this contract. He has the authority within the company to make and adjust staff and workload assignments and will use this authority to fully staff any project coming out of this contract. Mr. Nagle is supported by discipline leads who have led our team of technical personnel in delivering multiple task orders under various on-call contracts across Southern California.

Mr. Nagle will work with the discipline lead and assemble a team based on the scope of work needs. Our experienced team will commit and deploy the resources necessary to complete tasks and provide accountability for the quality and timely delivery of any assignment.

In addition to scheduled progress meetings with the City, we believe that regularly scheduled (such as bi-weekly) progress check-ins with the City's Project Manager via a teleconference will be an efficient way of making sure that we are "on the same page" as the work progresses.



Summary of Project Management Approach and Communication Protocol

COORDINATING STAFF RESOURCE ALLOCATION

Staff resources, including engineers, drafters, surveyors, and administrative staff, are included in the planning process. This coordination ensures firm-wide communication of staff availability. Department heads lead both a weekly staff meeting for local staff as well as a coordination call with the managers throughout Michael Baker's Western Region offices. In this way, workload information and resource requirements are reviewed and discussed as a group. This communication allows for the flexible reallocation of staff resources as needed for each project to ensure that client goals and deadlines are met.

SCOPE MANAGEMENT

The scope verification process is important to ensure that project deliverables are formally accepted. This will be achieved through the use of a well-defined scope of work for the project and by having each team lead develop and agree to the scope. Our leadership team will define the deliverables for each task in the scope. Any issues that arise during the execution of the project will be addressed by the team. Our solutions and recommendations will be available for input by the City. This is part of the normal design development; however, any issues that could potentially require adjustments to scope will be communicated immediately to the City's PM along with recommended solutions and a plan to recover the schedule or budget, if needed.

DOCUMENT CONTROL

We will work with the City so that documents are correctly generated, obtained, authenticated, or approved using a systematic method of controls specific to each type of document. We are familiar with your preferred document control platforms. We believe in the benefits of effective document control which includes version control and sharing of live data. We can assist the City with implementing the right solution for any situation.

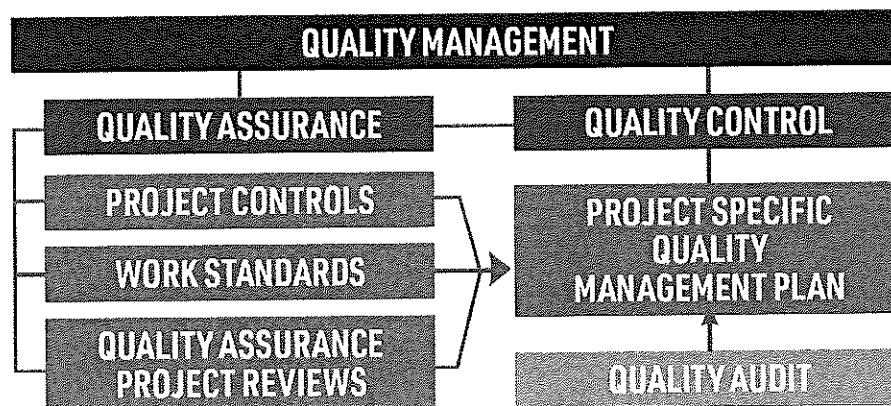
QUALITY MANAGEMENT

Quality is embedded within our teams' work ethic and is practiced continuously throughout the design and construction phases of projects. This is a characteristic that is valued and rewarded within our team and will provide the City with facilities that we expect to exceed its required service life. Our QA/QC program ensures continuous review of the project at various phases for each task order.

QA/QC

Michael Baker's QA/QC program is appropriately scaled for each specific project, and each task order. It is structured to mitigate issues with little to no escalation. This is ensured by building in quality at every step of the process, promoting prevention rather than detection.

Quality Control Manager, John Harris, will administer and maintain the QA/QC Program through the project stages. The QA/QC Program will include a review of the technical approach, back-checking of documents before submittals, documenting review comments and responses, and accuracy and completeness of plans and other design documents. Mr. Harris' background spans multiple public works areas of expertise which will provide a critical perspective for potential projects.



Michael Baker follows a system of checks and balances to ensure quality deliverables.

RISK MANAGEMENT

The objective of risk management is to assess, plan for, and respond to events and conditions that might adversely impact the project, and to enhance opportunities that might positively impact the project. Therefore, risk management increases the probability/likelihood of project success.

Risk Management begins with identifying risks during the development of the project approach and revisiting them throughout project development as part of the project control. Identified risks must be listed, addressed, and tracked to either eliminate or avoid the risk so that they do not impact the schedule and budget.

When a risk cannot be avoided, it is specified as a risk to budget and/or schedule. Once identified, a brainstorming session involving technical, budgetary, and management professionals is held to determine if a solution could be found to either eliminate or significantly reduce the risk.

MANAGING THE PROJECT TEAM

Michael Baker conducts weekly workload meetings to assign appropriate staff to specific tasks based on their skills, project needs, and project schedule commitments. In addition to internally scheduled coordination meetings, our team will regularly schedule status meetings with the City's PM as an effective way to strategize project progress. The project schedule will be updated and maintained weekly to ensure that it remains current and accurate.

MAINTAINING COST AND SCHEDULE CONTROLS

Equally important to producing high-quality deliverables is maintaining the project schedule and budget. The schedule prepared as part of the PMP will integrate milestones and sub-tasks, preparation and processing, in-house QA/QC, and City reviews. Timely reviews from City staff will be instrumental in keeping the project on schedule. Collaborative review meetings with City staff after deliverables are submitted may help to streamline the review process. In addition, adherence to strong cost control practices is also essential to successfully delivering projects within the authorized budget.

Mr. Nagle will closely monitor the financial status of the project to ensure we are on a budget by projecting the expected cost to complete and comparing against the remaining funding for each task order, using our in-house cost control tools. **Michael Baker will be following our four-step process (outlined to the right) in managing each task order's budget and timeline.**

If schedule recovery is required, we will select the most appropriate solution to the particular situation to recover the schedule. The project schedule will be updated and maintained monthly to ensure that it remains accurate and our team will provide monthly updates to the City's PM.

1. Plan of Action

- Work Breakdown Structure (WBS): Break work into manageable tasks and subtasks.
- Sequence & Overlap: Establish the order and overlap of tasks.
- Time & Cost Estimation: Determine time and cost for each part and the entire project.



2. Regular Monitoring

- Progress Comparison: Compare actual progress to the project plan.
- Weekly Reports: Project team receives weekly Project Labor Detail Reports.
- Project Controls Specialist: Assists PM in evaluating project costs and identifying corrective actions.



3. Identifying Causes of Delays & Cost Overruns

- Continuous Coordination: PM coordinates with Discipline Leads.
- Immediate Action: Identify issues and take corrective action to meet the schedule.



4. Integrated Scheduling, Monitoring, & Cost Control

- Master Schedule & Resources: Establish according to WBS.
- Project Status Report (PSR): Tracks schedules, deliverables, costs, and invoicing.
- Monthly Reviews: PSR reviewed with Department Manager and Area Operations Manager.
- Earned Value Monitoring: Monitor costs and progress against the budget, update forecast cost to complete monthly.



Michael Baker's four-step process in managing each task orders budget and timeline.

Michael Baker has assembled a specialized project team for the On-Call Civil Engineering Professional Consulting Services Contract. Our experts, well-versed in the City of Huntington Beach, deliver comprehensive solutions tailored to the unique challenges of this contract.

D. STAFFING



Contract Manager

John Nagle, PE

Principal-in-Charge

Todd McIntyre, PE

Quality Control Manager

John Harris, PE

Resumes are in the appendix of this proposal.

WATER/SEWER/STORM WATER ENGINEERING DISCIPLINE LEAD

John Nagle, PE

Potable Water Pipeline Engineering

Alex Maher, PE

Dan Smith, PE, CQM-C

Potable Water Wells, Reservoirs & Booster Stations

Miles Costanza, PE

Dan Smith, PE, CQM-C

Potable Water Master Plan & Financial Plan Updates

Alex Maher, PE

Kris Olsen, PE

Wastewater Engineering & Master Plan Updates

Alex Maher, PE

Kris Olsen, PE

Stormwater Engineering

Brad Losey, PE

Mujahid Chandoo, PE

Jenna Clark, PE

GENERAL CIVIL ENGINEERING DISCIPLINE LEAD

Sarmad Farjo, PE

Roadway

David Eames, PE

Frank Iran, PE

Jerrika David, EIT

Traffic

Marc Violett, PE

Saeed Kerayehchian, PE, PTOE

Javier Ruedas, EIT

Parking Lots

Da Cheng Lee, PE

Susan Zhang, PE

Bridge Design

Pooya Haddadi, PE, SE

Fabio Sanchez, PE, SE

Jessica Mosquera, PE

Grading/Site

Ron Stone, PE

Land Surveying

Steve Stocum, PLS

Kevin Hills, PLS

Tim McKinney, PLS

Tony Rai

ENVIRONMENTAL AND WATER QUALITY DISCIPLINE LEAD

Terrence Chen, PE, QSD/P

Water Quality

David Mercier, PE, CGP,

LEED AP

Wilfred Hsu, PE, QSD/P

Andrew Bjork, PE

Chris Crompton

Monitoring & Inspections

Danielle Rigali PE, QISP,

QSD/P, CPSWQ

Elizabeth Ruedas, PE

Kylee Nakata, EIT

Max Kalber

Compliance & Permitting

Alan Ashimine

Kristen Bogue

Jessica Ditto

Zhe Chen, LEED Green

Daniel Cardoza, PWS

Studies & Reports

Vanessa Thulsiraj, EIT

SUPPORT SERVICES

Structural Engineering

Sal Sheikh, PE

Ciprian Stelea, PE

JD Chiniaeff, CCT

Electrical, Instrumental & Controls

Marek Przywara, PE

Megan Czach, PE

Construction Support

Kieler Smith, PE, CCM, QSD

Landscape Architecture

Jeremy Franzini, PLA

Alaa Chaabani, PLA

Computational Fluid Dynamics Modeling

Scott Jenkins, Ph.D.

Grant Applications

Dino Serafini, PE

Jonai Johnson

Quality Control Support

Richard Beck, CEP, PWS, CPESC

David Mercier, PE, LEED AP

Utility Pot-holing

Boudreau Pipeline

Juan Navarrete

Pavement Investigation/Rehabilitation

LaBelle Marvin

Steve Marvin, PE

Full Service In-House Engineering - Michael Baker is highly qualified and skilled in providing Civil Engineering Professional Consulting Services, handling projects of various sizes and complexities under this on-call contract. We are prepared to commence infrastructure improvements to meet capital needs.

E. QUALIFICATIONS

A LEADING PROVIDER OF ENGINEERING, SURVEYING, AND CONSULTING SERVICES

Michael Baker provides a comprehensive range of services and solutions to support U.S. federal, state, and municipal governments, and a wide range of commercial clients. Headquartered and incorporated in Pittsburgh, PA, Michael Baker's more than 4,000+ employees across 90 offices (10 in California) are committed to a culture of innovation, collaboration, and technological advancement to help solve challenges for clients and communities locally and nationwide.

ON-CALL SERVICES OVERVIEW

Michael Baker takes great pride in our long-standing history of providing both as-needed/on-call and extension-of-staff services for public sector clients. Our firm is a recognized leader in the professions of engineering and support services throughout the state of California. Our in-house expertise includes:

- Civil, Structural, Mechanical, and Electrical Engineering
- Water, Sewer and Wastewater Engineering
- Water and Wastewater Master Plans
- Water Quality and Stormwater Engineering
- Environmental and Land Use Planning
- Grant Writing
- Survey and Mapping
- GIS and LiDAR Scanning
- Traffic and Transportation Engineering
- Construction Management Services
- Urban Design and Landscape Architecture
- Architecture

KEY STAFF

John Nagle, PE	Contract Manager and Water/Sewer/Storm Water Engineering - Discipline Lead
Sarmad Farjo, PE	General Civil Engineering - Discipline Lead
Terrence Chen, PE	Environmental and Water Quality - Discipline Lead
Dan Smith, PE	Potable Water Pipeline Engineering, Potable Water Wells, Reservoirs & Booster Stations
Alex Maher, PE	Potable Water Pipeline Engineering, Wastewater Engineering & Master Plan Updates, Potable Water Master Plan & Financial Plan Updates
Miles Costanza, PE	Potable Water Wells, Reservoirs & Booster Stations
John Harris, PE	Quality Control Manager
Brad Losey, PE	Stormwater Engineering
David Eames, PE	Roadway
Steve Slocum, PLS	Land Surveying
David Mercier, PE	Water Quality
Alan Ashimine	Compliance & Permitting
Dino Serafini, PE	Grant Applications

SUBCONSULTANTS



LaBelle Marvin, Inc., Pavement Investigation/Rehabilitation: A full-service pavement engineering firm established in 1969, specializes in pavement engineering, material testing, design, Falling Weight Deflectometer, and pavement evaluations. LaBelle Marvin's in-house capabilities include full-service Caltrans-certified soils and asphalt concrete laboratory, a Road Rater and Falling Weight Deflectometer deflection testing equipment, Ground Penetrating Radar GPR, coring and boring machinery. Their project **experience includes Studebaker Corridor (Pavement Rehabilitation) with Michael Baker**, as well as pavement rehabilitation for the cities of San Juan Capistrano, Pomona, Orinda, and Berkeley.



Boudreau, Utility Locating: A southern California pipeline company with 25 years experience specializing in wet utilities, water, sewer, and storm drain utility engineering. Boudreau provides **potholing services** using vacuum excavation and **ground penetrating radar** used to detect interfaces between subsurface materials to identify non-conductive pipelines and substructures. Their project **experience includes the Humboldt Sewer Lift Station for the City of Huntington Beach** and the 33rd Street Pipeline Replacement for the City of Signal Hill.



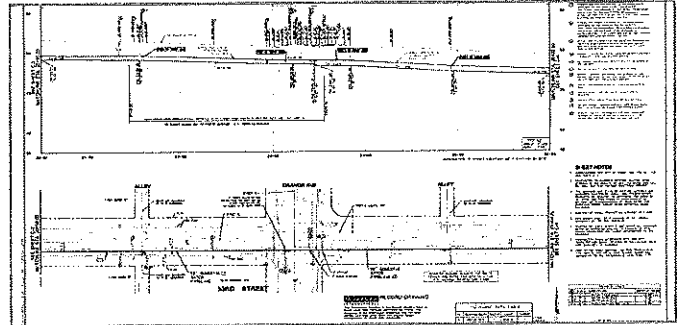
Saybrook Lift Station

Huntington Beach, California

Client: City of Huntington Beach | **Dates:** 2019-2021

Key Staff: John Nagle, Steve Slocum, Alex Maher

Michael Baker provided design services for the Saybrook Lane Sewer Lift Station at Saybrook Lane and Heil Avenue. The project included installation of a new wet-well structure, submersible pumps, a lift system, piping, force main, valving facility, vault, electrical service, instrumentation, a gas-powered generator, relocation of 2,000 feet of utilities and reconfigured traffic lanes and median. The existing lift station had a wet-well/dry-well configuration with a five-foot-diameter concrete wet well and an adjacent 20-foot-deep, eight-foot-diameter concrete dry pit housing two 15-horsepower sewage pumps. The new concrete wet well structure extended 30 feet below ground.



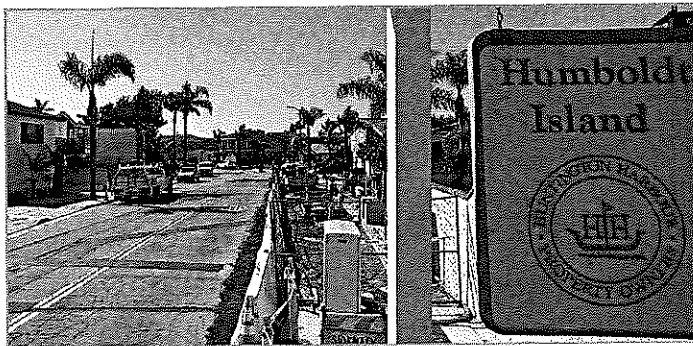
33rd Street Pipeline Replacement

Signal Hill, California

Client: City of Signal Hill | **Dates:** 2022-2024

Key Staff: John Nagle

Michael Baker provided engineering services for the 33rd Street water main replacement. Preliminary design services included an alignment analysis, evaluation of pavement conditions and ADA compliance at intersections. Michael Baker recommended removing the pipeline and installing a new pipeline. During construction, 18 existing water services will be reconnected to the new pipeline. Michael Baker's design includes a temporary "highline" to maintain uninterrupted water service to customers along the alignment. Final improvements include 2,660 LF of new DIP potable water main, with 1,310 LF of 16-inch DIP and 1,350 LF of 12-inch DIP, and ADA improvements at nine locations. Pavement resurfacing design was completed but deferred due to funding limitations. Michael Baker provided engineering support during construction.



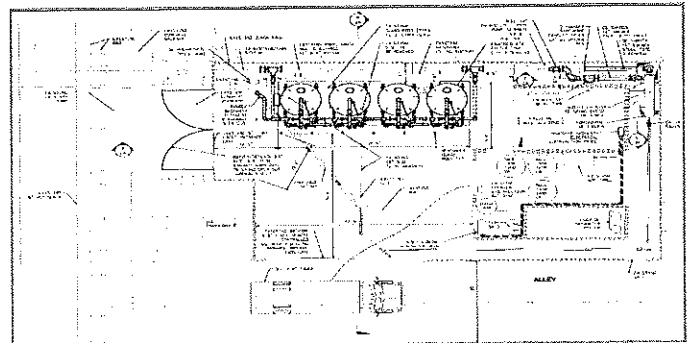
Humboldt Sewer Lift Station Replacement

Huntington Beach, California

Client: City of Huntington Beach | **Dates:** 2023-Current

Key Staff: John Nagle, Alex Maher

The existing Humboldt Lift Station, constructed in 1964, consists of a 4-foot diameter concrete sewer manhole wet well and an adjacent 18-foot deep, 8-foot diameter concrete "dry pit", housing two 3-HP sewage pumps. The pumps deliver sewage through a 4-inch force main to a manhole on the east side of Humboldt Bridge. The City determined that the lift station had reached its useful life expectancy and wanted to replace and upgrade this facility. The Station is a critical piece of infrastructure, and the City required that it remain operational for the entire duration of construction with minimal downtime for reconnections. Michael Baker's design included a 60-inch diameter wet well, an 8-foot by 6-foot rectangular valve vault, and a new 48-inch manhole.



Well 3A Manganese and PFAS Treatment

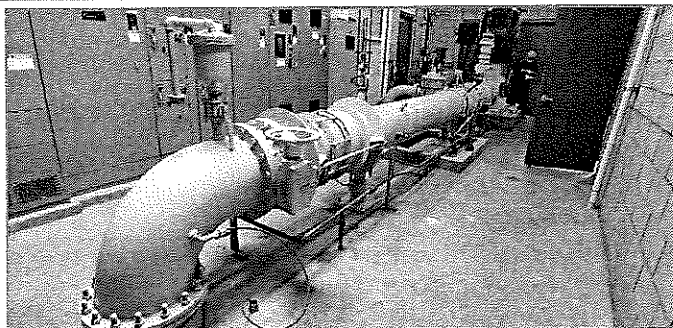
Huntington Beach, California

Client: City of Huntington Beach | **Dates:** 2022-2024

Key Staff: John Nagle

The City plans to design and construct wellhead treatment systems to address elevated levels of manganese (84 ppb) and PFAS (6.2 ppt) for Well 3A. Michael Baker prepared a Preliminary Design Report which included analysis and evaluation of various treatment technologies, including hydraulic analysis, conceptual site layouts, preliminary design, estimates, and recommendations for the City's wellhead treatment improvements. The major improvements proposed for the wellhead treatment systems include:

- Installation of GreensandPlus filters system to treat raw water.
- Installation of a 5-micron prefilter unit and new well pump.
- Electrical improvements, new VFD and 200A panel board.

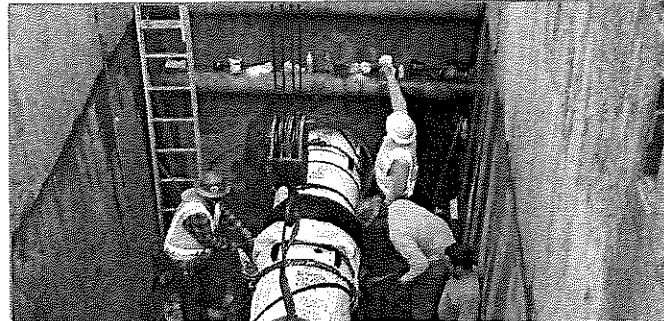


City of Anaheim, Well 41 & 56 PFAS Treatment Anaheim, California

Client: City of Anaheim | **Dates:** 2020

Key Staff: John Nagle

The City of Anaheim wells 41 and 56 are out of service due to PFAS levels above MCL. Michael Baker provided a Technical Memorandum for sizing of the ion exchange (IX) vessels and pre-filtration system and developed a preliminary site layout for PFAS treatment system for wells 41 and 56. The project included an analysis of alternative configurations for each site, hydraulic calculations to determine additional head loss and impact to pumps due to the treatment system, and recommendations for well pump upgrades.

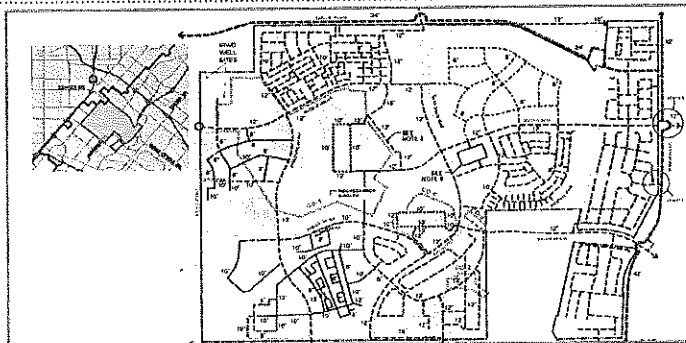


OC-44 Pipeline Rehabilitation/Replacement Huntington Beach, California

Client: Mesa Water District | **Dates:** 2020

Key Staff: John Nagle, John Harris, Alan Ashimine, Alex Maher

Provided engineering and construction support services for the emergency repair of this Transmission Main, a 42-inch diameter steel pipeline, which serves as a critical source of imported water supply to Mesa Water District and Huntington Beach. In early February 2020, a leak occurred at a 90-degree bend at the intersection of Santa Ana Avenue and Bristol Street, requiring immediate shutdown of the pipeline. In addition to heavy day time traffic volume, which dictated night-time construction, complicating the repair effort was the close proximity of an existing 30" high pressure gas pipeline, crossing under the OC-44 pipeline with only 4-inches of clearance. Once the pipe was exposed, Michael Baker was called out to inspect the leak and design an emergency repair.



Tustin Legacy Sub Area Master Plan (SAMP) Updates Tustin, California

Client: Irvine Ranch Water District | **Dates:** 2024-2025

Key Staff: John Nagle, Alex Maher

The Tustin Legacy Specific Plan (TLSP) is an urbanized master planned area in the southern portion of the City of Tustin. Michael Baker performed a SAMP in 2008 for the TLSP. The TLSP SAMP requires updates whenever development potential changes. Michael Baker has conducted updated analyses for the existing and proposed potable water, non-potable water, and wastewater collection systems to identify any deficiencies based on Irvine Ranch Water District service and performance criteria. Additional analysis of each system was performed based on proposed construction phasing to refine ultimate facility sizing as well as required off-site system improvements. Based on the results of the system analysis, a detailed cost estimate for capital and non-capital improvements for proposed facilities was developed.



Orange Heights SAMP Updates Orange, California

Client: The Irvine Company | **Dates:** 2024

Key Staff: John Nagle, Alex Maher

The Orange Heights project spans 400 acres between SR 241/261 and Jamboree Road at Santiago Canyon Road. Michael Baker conducted a SAMP in 2016, updated in 2022 and 2024. The development has two phases: Phase 1 (Tract 16199) north of Santiago Canyon Road (SCR) and Phase 2 (Tract 17995) south of SCR. Michael Baker provided hydraulic modeling for potable and non-potable water, and sanitary sewer systems. For Phase 2, potable water supply passes through two pressure-reducing stations (PRS) to prevent over-pressurization. They analyzed the system with one PRS out of service and a flushing alternative for a local pump station. A detailed cost estimate for improvements was developed based on the analysis.



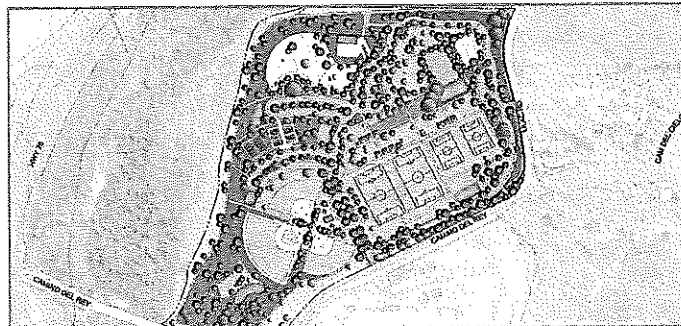
Studebaker - Loynes Complete Streets

Long Beach, California

Client: City of Long Beach | **Dates:** 2022-2024

Key Staff: Sarmad Farjo, Brad Losey, Steve Slocum, David Eames

Michael Baker completed the PS&E for the project, which included the roadway, protected intersection, and bulb-outs. Project included transit facilities, public outreach, design of innovative pavement, coordination with multiple agencies, and improved roadway profile. The project involved complete street design elements and pavement rehabilitation to enhance safety for all users. Also included were ITS, and connectivity, and the realignment of the Studebaker and Los Coyotes Diagonal intersection. The project provided Class IV separated bikeways, traffic signal upgrades, protected intersections, bus islands, transit facilities, fiber optic communication, LID, ADA improvements, and landscaping.



Bonsall Community Park

Bonsall, California

Client: County of San Diego | **Dates:** 2020-2024

Key Staff: Terrence Chen, Alan Ashimine

Michael Baker assisted the County with the development of the 62-acre, Community Park. It conducted a series of workshops to develop designs that fit the goals of the community and integrates into the San Luis Rey River master plan. Based on the results, Michael Baker developed active and passive options for additional community input before preparing the final park master plan. Michael Baker prepared plans, specifications, and estimate for the improvements. The design included baseball, softball, and soccer fields, basketball, and tennis courts, skate, bicycle, and dog park, playground, picnic areas, concession/office building, trails, parking, entry monuments, a sewer lift station, stormwater and water quality basins, and new traffic signal at the entrance.



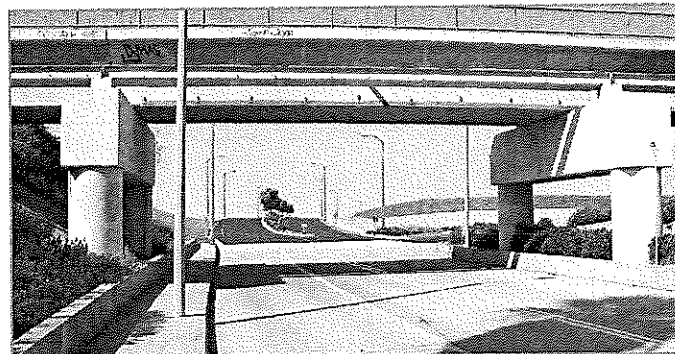
Prospect Avenue Pavement Resurfacing and Streetscape

Hermosa Beach, California

Client: City of Hermosa Beach | **Dates:** 2023-2024

Key Staff: Sarmad Farjo, Steve Slocum, Alan Ashimine

Michael Baker prepared PS&E for this fast-track street improvement, pavement resurfacing, and streetscape project. The project covered 9,240 linear feet resurfacing Prospect Avenue and several side streets. Michael Baker produced detailed plans, specifications, and an engineer's opinion of probable construction costs for pavement resurfacing. The project required topographic surveys for upgrading 45 curb ramps, and installation of new sidewalks, curbs, and gutters where damaged ones existed. All manholes, valves, and similar features were adjusted to grade. New pavement markings and raised markers were added to enhance road safety. Traffic loops at Aviation Boulevard and Artesia Boulevard were restored to improve traffic flow.



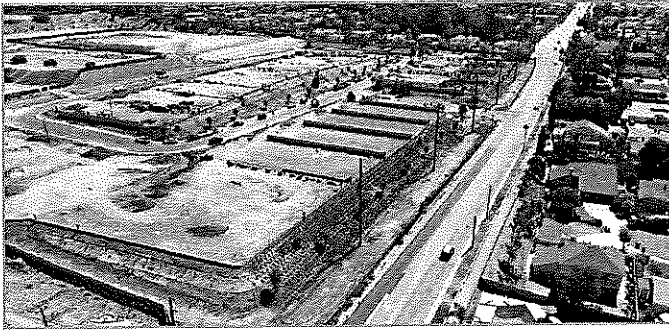
Olivas Park Drive Extension

Ventura, California

Client: City of Ventura | **Dates:** 2015-2023

Key Staff: Sarmad Farjo, David Eames, Brad Losey, Terrence Chen, John Nagle

Michael Baker oversaw the final engineering design for this roadway extension which included an earthen levee and floodwall system. It developed a preliminary design report and final PS&E to expand Olivas Park Drive from two to four lanes and construct 3,200 feet of new four-lane roadway from Perkin Avenue to Auto Center Drive and Johnson Drive. The extended roadway featured Class I and II bicycle lanes, new traffic signals, water quality treatment, drainage facilities, and new utilities, including domestic and reclaimed water lines, sewer lines, and irrigation systems. Michael Baker also planned a new levee along Santa Clara River, south and west of the roadway extension, with flood gate crossings for 100-year flood protection.



Bastanchury Road Improvements

Yorba Linda, California

Client: City of Yorba Linda | **Dates:** 2022-2024

Key Staff: Sarmad Farjo, David Eames, Steve Slocum, Terrence Chen

Michael Baker provided final engineering design services to a segment of Bastanchury Road between Casa Loma Avenue and Eureka Avenue. The project included widening the roadway to four lanes with adjacent five-foot shoulders and profile improvements to meet the current design requirements of this primary arterial in the OCTA Master Plan of Arterial Highways and the City's General Plan Circulation Element. The project included roadway widening, pavement design, traffic signal design, utility coordination, stormwater, drainage, and ADA ramps. Michael Baker revised the design plans to allow the waterline to remain in place during construction. Protecting the waterline saved the city \$900,000.



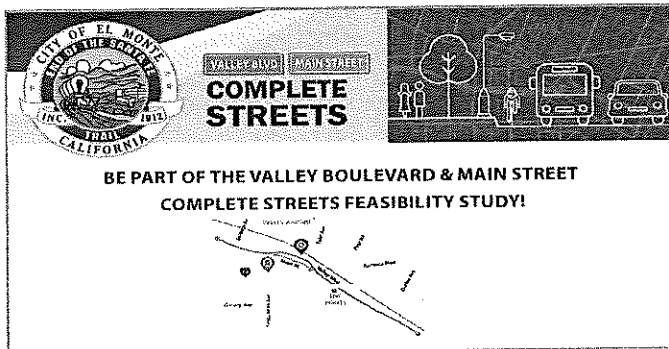
Venta Spur Trail Bicycle and Pedestrian Bridge over SR-133

Irvine, California

Client: City of Irvine | **Dates:** 2018-2022

Key Staff: Terrence Chen, Alan Ashimine, Steve Slocum

The project extended the Venta Spur Trail over SR-133 and Marshburn Channel, a key element of Irvine's Master Plan of Open Space and Trails. The trail connected communities with a bikeway, pedestrian bridge and access to Portola High School. The trail crossed SR-133 and the stormwater channel, and connected to the Irvine Ranch Water District maintenance road. Michael Baker designed a 263-foot by 17-foot cast-in-place pre-stressed concrete box girder bridge, a 15-foot trail and barriers. The bridge featured a single concrete column in the median for a two-span configuration for vertical stiffness and seismic resistance. A second bridge spanned the 20-foot-wide Marshburn Channel. Michael Baker prepared reports and data sheets for Caltrans' approval, and assisted the City with CEQA and technical studies.



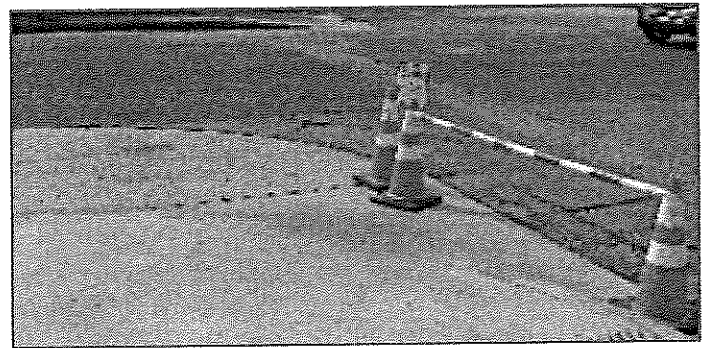
Valley Boulevard & Main Street Complete Streets Feasibility Studies

El Monte, California

Client: City of El Monte | **Dates:** 2023-2024

Key Staff: Sarmad Farjo, Frank Tran, Terrence Chen

Michael Baker conducted a comprehensive evaluation of Main Street and Valley Boulevard corridors to identify features that would improve access, connectivity, and safety. As part of the project, Michael Baker developed concepts for a mini-park and pedestrian paseos to serve as a gateway to the city's Main Street shopping district and connect people to downtown El Monte. A dynamic community engagement program was developed that included a community advisory committee, pop-up events, workshops, virtual meetings, and project website. Michael Baker prepared a grant application for the California Transportation Commission Active Transportation Program Cycle 7.



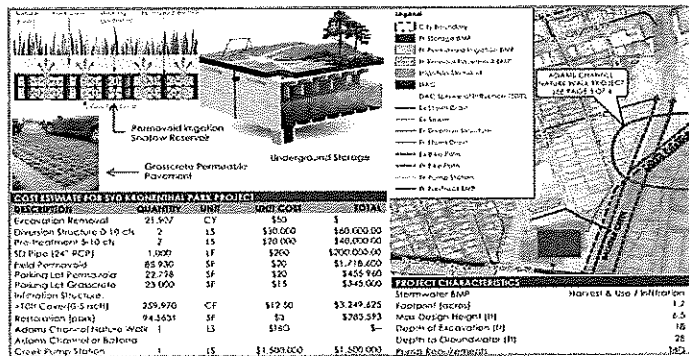
4th Street Roadway Rehabilitation

Long Beach, California

Client: City of Long Beach | **Dates:** 2020-2021

Key Staff: Sarmad Farjo, Frank Tran

Michael Baker provided final engineering services for complete street and roadway rehabilitations including ADA upgrades for the segment of 4th Street in Long Beach, between Cerritos Avenue and Almond Avenue. The project addressed non-compliant ADA facilities, drainage issues, curb and cross-gutter geometry issues, pavement failures, and bus and transit upgrades. Some of the challenges the team overcame on this project included steep driveways, pavement design, coordination with multiple agencies, improving roadway profile, and ADA compliance.



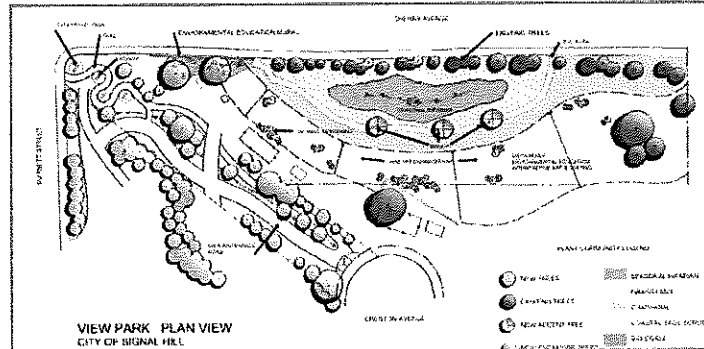
Stormwater (SWQMP)

Culver City, California

Client: City of Culver City | Dates: 2021

Key Staff: Dave Mercier

As a subconsultant, Michael Baker significantly contributed to the City's SWQMP. The SWQMP guides the City on capital outlays to meet TMDL requirements, prioritizing projects based on funding. Facing regulatory challenges, including the Los Angeles MS4 permit and TMDL schedules, the SWQMP aids in decision-making and regulatory engagement. Michael Baker's role included GIS mapping, drainage area delineation, BMP identification, and project prioritization. They developed tools to screen BMP locations and created a high-value BMP plan. Feasibility studies and conceptual plans were developed for public outreach and grant applications, securing funding from the Safe, Clean Water (SCW) Program and Proposition 50. The SWQMP features a dynamic dashboard for tracking project progress, funding, and priorities.



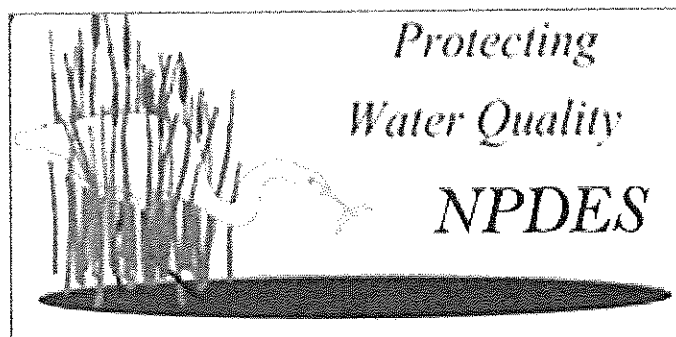
Stormwater Capture

Signal Hill, California

Client: City of Signal Hill | Dates: 2022-2024

Key Staff: Dave Mercier

When the City of Signal Hill needed a water quality solution to meet grant funding requirements, they turned to Michael Baker. Partnering with the City, Michael Baker designed a dry well system to manage runoff from a 24-acre area, fulfilling grant obligations and progressing toward Enhanced Watershed Management Plan (EWMP) targets. The BMP system included a diversion from an existing storm drain, a storage system with pre-treatment, and a series of dry wells for infiltration. Michael Baker optimized the system with multiple vendors, ensuring it could capture the entire water quality volume from the watershed and divert nearly one acre-foot of runoff during each 85th-percentile rain event. Despite the expedited design schedule due to funding deadlines, Michael Baker delivered the plans on budget and on time.



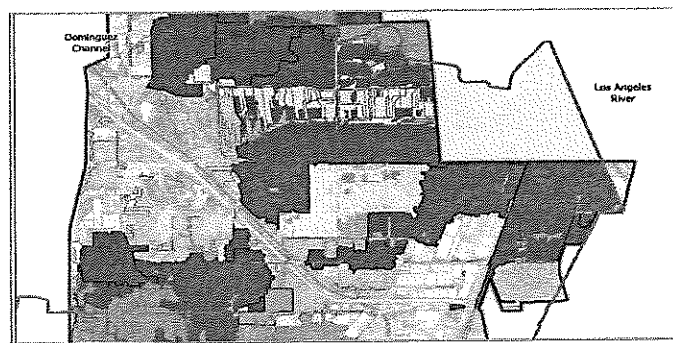
NPDES Program Management Support Services

Fountain Valley, California

Client: City of Fountain Valley | Dates: 2020-current

Key Staff: Terrence Chen

Michael Baker has been supporting the City with NPDES program support since 2020. Michael Baker provided review of the City's Municipal Code, LIP, various stormwater regulations, and Standard Operating Procedures for their Construction, WQMP, and Commercial/Industrial programs. Based on Michael Baker's expertise in local and statewide permits, improvements to the City's programs were proposed. Michael Baker performed commercial/industrial inspections and provided several in-person general stormwater trainings to City maintenance staff, inspectors, and enforcement personnel. Currently, Michael Baker provides plan check reviews for City WQMPs and Hydrology Reports.



Stormwater Facilities Implementation Plan (SWFIP) & Green Streets

Carson, California

Client: City of Carson | Dates: 2022-Ongoing

Key Staff: Dave Mercier, Steve Slocum

Michael Baker is providing a comprehensive approach to stormwater management by developing a SWFIP. The plan provides a road-map to compliance with the Los Angeles MS4 Permit, the Dominguez Channel Enhanced Watershed Management Program, and ultimately the TMDL schedules that drive requirements. A prioritization strategy was created to identify cost-effective green street and regional multi-benefit BMPs, resulting in prioritized implementation scenarios. A web-based dashboard and mapping tool was created to manage the SWFIP, tracking compliance progress and available funding for the City and stakeholders. Michael Baker is finalizing design of green street BMPs, covering surveying, and support during bidding and construction.



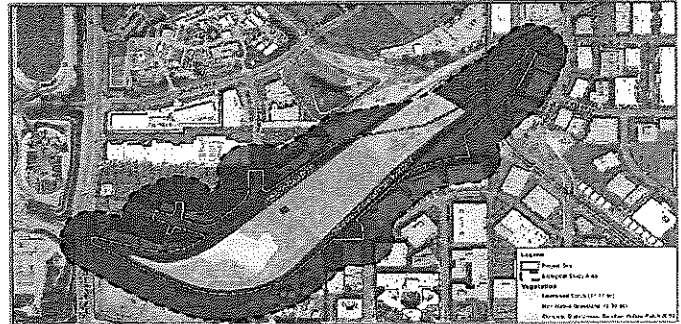
Collins Island Bridge Replacement

Newport Beach, California

Client: City of Newport Beach | **Dates:** 2023-2024

Key Staff: Alan Ashimine

Michael Baker prepared an Initial Study/Mitigated Negative Declaration (IS/MND) for the proposed Collins Island Bridge Replacement. The proposed project has three major components: a bridge replacement, seawall improvements, and future pump station accommodations. The proposed bridge would be 20 feet and 6 inches wide to accommodate one vehicle travel lane, one sidewalk, and concrete barriers on each side to protect from projected sea level rise. The slope profile along the roadway and sidewalk bridge approaches would be adjusted to comply with ADA standards. Technical studies included analysis for air quality, Greenhouse gases (GHGs), energy, noise, assessment of cultural/paleontological resources, jurisdictional delineation, eelgrass survey, and fish habitat.



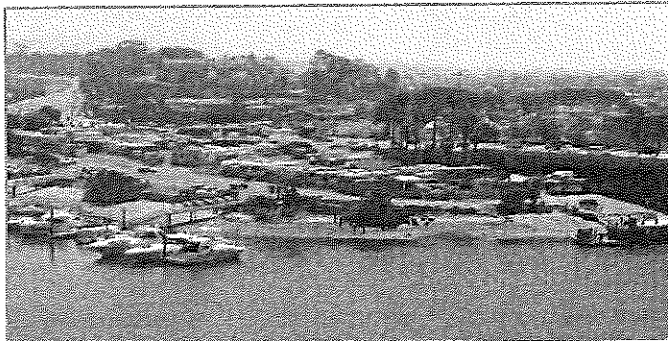
Park Place Extension and Grade Separation EIR/EA

El Segundo, California

Client: City of El Segundo | **Dates:** 2015-2021

Key Staff: Alan Ashimine

Michael Baker International helped the City of El Segundo prepare a joint Environmental Impact Report/Environmental Assessment (EIR/EA) for the Park Place Extension and Grade Separation. The City led under CEQA, while NEPA approval was needed from Caltrans due to federal funding. The project aimed to extend Park Place, close a quarter-mile gap between Allied Way and Nash Street, improve connectivity, and reduce traffic congestion. It also involved a roadway/rail grade separation and potential railroad track relocation. Environmental issues included aesthetics, air quality, biological resources, geology and soils, greenhouse gas emissions, hydrology and water quality, noise, and traffic. The site is also over a former heavy industrial facility with known hazardous materials contamination.



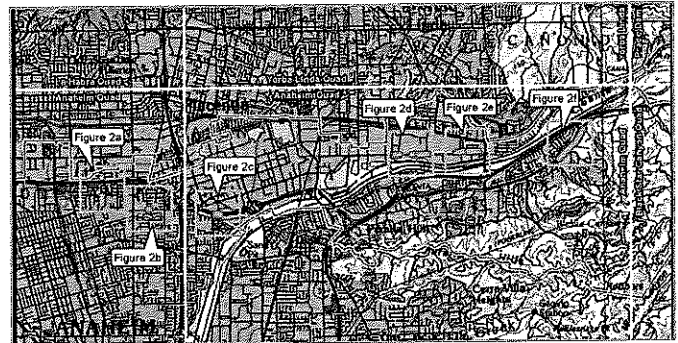
Bay Bridge Sewer Pump Station and Force Mains Replacement EIR

Newport Beach, California

Client: Orange County Sanitation District (OCSD) | **Dates:** 2018-2023

Key Staff: Alan Ashimine

Michael Baker assisted with preparation of an EIR that included replacement of the Bay Bridge sewer pump station facilities including a pump station, generator, and odor control facilities on the Bayside Village Marina property located on Coast Highway in Newport Beach. The project required construction of dual force mains. Sewer modifications were required on short segments of Bayside Drive and East Coast Highway. The project included coordination with stakeholders and agencies, due to coastal location. The recirculated EIR addressed marine biology, geology, soils, cultural resources, air quality, and noise. A detailed land use analysis for California Coastal Act compliance was needed to support the Coastal Development Permit process.



Citywide Safe Routes to School Sidewalk Gap Closure

Anaheim, California

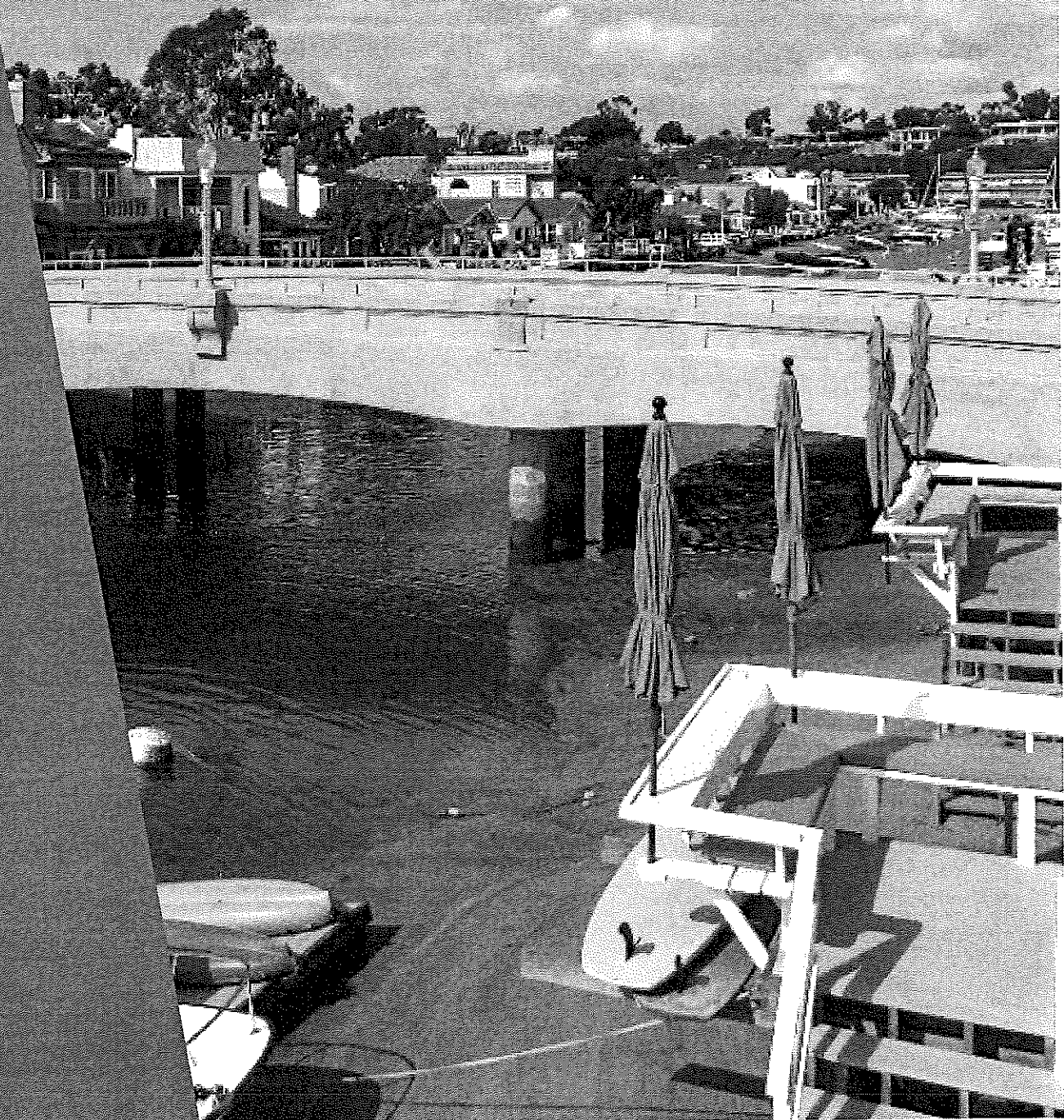
Client: City of Anaheim | **Dates:** 2021-2022

Key Staff: Alan Ashimine

Michael Baker assisted the City with the preparation of NEPA documentation in the form of a Categorical Exclusion (CE), supporting technical studies (i.e., Archaeological Survey Report, Historic Property Survey Report, and Historical Resources Evaluation Report), and public outreach for this project. The proposed project would construct more than 6,500 linear feet of ADA accessible sidewalk near nine schools, closing sidewalk gaps located within one-half mile of each school entrance. Michael Baker conducted the NEPA review on an expedited schedule to allow the City to receive Federal funds for this critically important project facilitating mobility and safety for the local school population.

APPENDIX

The City of Newport Beach relied on Michael Baker to help them secure approvals for \$2.4M in additional funding from Caltrans for the Park Avenue Bridge reconstruction project.



References of Work Performed Form

(List 5 Local References)

Company Name: Michael Baker International, Inc.

1. Name of Reference: Studebaker - Loynes Complete Streets, City of Long Beach

Address: 411 West Ocean Boulevard, 5th Floor, Long Beach, CA 90802

Contact Name: Adrian Puyolt, Project Mgr Phone Number: 562-570-5763

Email: adrian.puyolt@longbeach.gov

Dates of Business: 2022-2024

2. Name of Reference: Bastanchury Road Improvements, City of Yorba Linda

Address: 4845 Casa Loma Avenue, Yorba Linda, CA 92886

Contact Name: Rick Yee, PE, Deputy Dir PW Phone Number: 714-961-7171

Email: ryee@yorbalindaca.gov

Dates of Business: 2022-2023

3. Name of Reference: Prospect Ave Pavement Resurfacing & Streetscape, City of Hermosa Beach

Address: 1315 Valley Drive, Hermosa Beach, CA 90254

Contact Name: Saad Malim, PE, Sr. Engineer Phone Number: 310-318-0268

Email: smalim@hermosabeach.gov

Dates of Business: 2023-2024

4. Name of Reference: Valley Blvd & Main Street Complete Streets Feasibility Studies

Address: 11333 Valley Boulevard, El Monte, CA 91731

Contact Name: Kevin Ko, PE, PW Engineer Phone Number: 626-580-2058

Email: kko@elmonteca.gov

Dates of Business: 2023-2024

5. Name of Reference: Humboldt Sewer Lift Station Replacement, City of Huntington Beach

Address: 2000 Main Street, Huntington Beach, CA 92648

Contact Name: Lili Hernandez, PE Phone Number: 714-536-5921

Email: lhernandez@surfcity-hb.org

Dates of Business: 2021-Current

John Nagle, PE



Mr. Nagle has extensive experience planning, designing, and providing construction support services for major water and wastewater facilities. He has prepared numerous construction plans, specifications, and cost estimates for water and sewer pipelines, water pumping stations, wastewater lift stations, wells, and reservoirs. He has prepared master plans for potable water, sanitary sewer, and recycled water systems. He uses his planning and design expertise to prepare capital improvement programs, condition assessments, and engineering feasibility studies.

RELEVANT EXPERIENCE

Humboldt Lift Station, Huntington Beach, California. *City of Huntington Beach.* PRINCIPAL-IN-CHARGE. Michael Baker provided design engineering service for a new sewer lift station with a wet well/dry well setup, including two 3-HP pumps. The City replaced the old station, which had reached its lifespan, and upgraded the pumps from 155 gpm to 350 gpm to reduce pump cycles per hour.

Well 41 & 56 Perfluoroalkyl Substances (PFAS). *City of Anaheim.* PROJECT MANAGER. City wells 41 and 56 are out of service due to PFAS levels above Maximum Contaminant Level (MCL). Michael Baker provided a Technical Memorandum for sizing of the ion exchange (IX) vessels and pre-filtration system and developed a preliminary site layout for PFAS treatment system. The project included analysis of alternative configurations, hydraulic calculations to determine additional head loss and impact to pumps due to the treatment system, and recommendations for well pump upgrades.

OC-44 Pipeline Rehabilitation, Orange County, California. *Mesa Water District.* PRINCIPAL-IN-CHARGE. Michael Baker provided engineering and environmental services for the rehabilitation evaluation and cathodic protection study. Michael Baker provided a comprehensive plan to investigate the condition of the 8.6 mile pipeline, evaluate repair and replacement strategies, and identify permitting and follow-on technical studies required to implement the recommended strategy. The selected alternative called for sliplining 1,800 linear feet of 30-inch diameter pipeline inside the existing 42-inch steel pipe. Prior to construction, Michael Baker prepared an IS/MND to identify potential environmental impacts and establish mitigation measures.

3-64A Orange-Western Sub-Trunk Rehabilitation, Orange County, California. *Orange County Sanitation District.* DESIGN MANAGER. Michael Baker provided engineering design services for a rehabilitation project serving Anaheim, Cypress, and Buena Park. The project involved rehabilitating 13,940 feet of 21-inch VCP trunk sewer and 39 manholes, including cleaning, chemical grouting, CIPP rehabilitation, and replacing sections of the sewer and manholes. They also conducted topographic surveying and mapping for 84,000 feet of sub-trunk sewers.

Tustin Legacy Sub Area Master Plan (SAMP) Updates, Tustin, California. *Irvine Ranch Water District.* PROJECT MANAGER. Michael Baker provided planning and analysis for updates to the SAMP of Tustin Legacy Specific Plan, focused on an urbanized area in the southern portion of the City. As part of the update, new analyses were conducted for the existing and proposed potable water, non-potable water, and wastewater collection systems to identify deficiencies based on the Water District service and performance criteria.

Well 3A Manganese and PFAS Treatment Project, Huntington Beach, California. *City of Huntington Beach.* PRINCIPAL-IN-CHARGE. The City plans to design and construct wellhead treatment systems to address elevated levels of manganese (84 ppb) and PFAS (6.2 ppt) for Well 3A. Michael Baker prepared a Preliminary Design Report which included analysis and evaluation of various treatment technologies, including hydraulic analysis, prepare conceptual site layouts, preliminary design, cost estimates, and recommendations for the City's proposed Well 3A Manganese and PFAS wellhead treatment improvements.

Years Experience

38

Education

M.S., 1996, Civil Engineering,
Loyola Marymount University

B.S., 1987, Civil Engineering,
Loyola Marymount University

Licenses/ Certifications

Professional Engineer - Civil,
California, 1991,
46972

Dan Smith, PE, CQM-C



Mr. Smith has diverse experience in water/wastewater, including project management, planning, design, and construction. He has worked on recycled water and infrastructure projects, covering feasibility studies, planning, and design/construction for wells, pipelines, sewer systems, pump stations, reservoirs, and pressure control facilities.

OCSD 3-64A Orange-Western Sub-Trunk Rehabilitation, Orange, California. Orange County Sanitation District.

TECHNICAL ADVISOR. Responsible as the QA/QC reviewer for technical memorandums. Also responsible as the technical advisor for assisting in the preparation of Design Memos for alternative rehabilitation methods and Construction Phase Environmental Issues. Michael Baker provided topographic surveying, project control, base maps, and mapping and easements for the entire 3-64 Western Regional Rehabilitation project, which is comprised of four sub-trunk collection sewers totaling approximately 84,000 linear feet of pipeline. As part of this project, Michael Baker also provided engineering design services for the rehabilitation of the Orange-Western Sub-Trunk (3-64A), which serves the cities of Anaheim, Cypress, and Buena Park.

Zone C+ Recycled Water Reservoir and Rattlesnake Complex Improvements, Orange, California. Irvine Ranch Water District. PROJECT MANAGER. Responsible for the design of a 2.4 MG prestressed concrete recycled water reservoir and related piping. A primary component of the preliminary design included Master Planning the existing site to accommodate the new reservoir and two future pump stations on an 8 acre site that had an existing 5.0 MG reservoir and a pump station already on-site. Other project components were 42" inlet and outlet pipes, strainer facilities, flow control facilities, tank drain improvements, air gap facility, and new access roads. Project also included various piping and valve removals and replacements at the Rattlesnake Complex to facilitate the conversion from untreated water to recycled water.

I-10 Cedar Waterline Replacement, Bloomington, California. West Valley Water District. QA/QC ENGINEER. Provided QA/QC for waterline in bridge over railroad. Michael Baker is currently under contract to provide West Valley Water District (WVWD) with engineering design, construction management, and inspection services for the water main replacement for the I-10 Cedar Avenue Interchange Improvement Project. WVWD's water facilities are located within SBCTA's proposed improvements along Cedar Avenue between Bloomington Avenue and Orange Street.

Morena Pump Station and Conveyance System, San Diego, California. City of San Diego. PROJECT ENGINEER. Assisted with right-of-way and pipe alignment issues. Provided QA/QC for construction plans. Michael Baker provided design and construction support services for the development of three pipelines, a 48-inch wastewater diversion pipeline, 66" overflow pipeline and a 30-inch brine conveyance pipeline within Friars Road to serve the Morena Pump Station. The wastewater diversion pipelines measured 2,000 feet in length and conveyed wastewater from three major trunk sewer pipelines, while the brine conveyance pipeline crosses the Mission Valley Trolley before connecting to the 66" overflow pipeline. This project will convey wastewater to the North City Water Reclamation Plant in support of the City's Phase I Pure Water program. Special design included micro tunneling the 48" and 66" pipelines along a parallel S-curved alignment. Diversion structures were designed around existing 60", 72" and 78" sewer pipelines. The structures were designed around live sewer flows as by-pass pumping such a large sewer volume (up to 80 MGD) proved infeasible.

Years Experience

44

Education

B.S., 1981, Civil Engineering, University of Wisconsin

Licenses/Certifications

Construction Quality Management for Contractors, 2020, 784

Professional Engineer, California, 1984, 37682

Sarmad Farjo, PE



Mr. Farjo is experienced in designing and managing transportation and multi-disciplinary infrastructure for local and regional clients. His expertise includes roadway, civil, and site design, complete streets, active transportation, resolving drainage and utility conflicts, and managing design teams. He is also familiar with environmental clearance and regulatory permitting

RELEVANT EXPERIENCE

Studebaker Road Complete Street, Long Beach, California. *City of Long Beach.*

PROJECT MANAGER. Responsible for managing the project including quality, schedule, and monthly billing; managing the design activities; and coordinating with the city to get the feasibility study and final engineering approved. Michael Baker's work on the Studebaker Road Complete Streets Project included obtaining Caltrans approval, transit facility location and coordination, public outreach, innovative pavement design, coordination with multiple agencies, improving the roadway profile, and ADA compliance. The project converted Studebaker Road to a complete street corridor by adding cycle tracks, including on-street bicycle lanes separated from through traffic by parallel parking.

Garvey Avenue Complete Street Project, El Monte, California. *City of El Monte.*

PROJECT MANAGER. The project aims to develop viable alternatives to transform Garvey Avenue into a Complete Streets corridor. This transformation would promote multi-modal transportation while considering safety, community needs, environmental impacts, operations, and aesthetics. Michael Baker worked on the feasibility study, developing four alternatives. These alternatives address challenges such as planned transit enhancements, retention of on-street parking, accessibility, the inclusion of a protected bike lane for all users, utilities, drainage, pavement, landscape, right of way, and public outreach.

Bastanchury Road Widening, Yorba Linda, California. *City of Yorba Linda.* **PRINCIPAL-IN-CHARGE.** Responsible for maintaining good client relationships and satisfaction with the services provided by Michael Baker staff. Michael Baker provided final engineering design services to a segment of Bastanchury Road between Casa Loma and Eureka Avenue.

4th Street Roadway Improvements, Long Beach, California. *City of Long Beach.*

PROJECT MANAGER. Michael Baker provided final engineering services for complete street and roadway rehabilitations including ADA upgrades for the segment of 4th Street in Long Beach, California, between Cerritos Avenue and Almond Avenue. The project addressed non-compliant ADA facilities, drainage issues, curb and cross gutter geometry issues, pavement failures, and bus and transit upgrades.

Crown Valley Parkway Westbound Widening, Laguna Niguel, California. *City of Laguna Niguel.*

PROJECT MANAGER. Led the widening of Crown Valley Parkway between the I-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. Provided final engineering design services to widen the north side of Crown Valley Parkway to widen Forbes Road to provide additional turning movements through the intersection. This work requires coordination with several public agencies and private entities, including Orange County Public Works, CA Department of Fish and Wildlife, San Diego Gas and Electric, and the Laguna Niguel Apartments developer TPG Acquisition.

Valley Boulevard and Main Street Complete Streets Feasibility Study, El Monte, California. *City of El Monte.*

PROJECT PRINCIPAL. Responsible for ensuring the client goal and objectives are met and that our project manager is delivering on time and within schedule to the satisfaction of the City. Michael Baker is developing concepts for a mini-park and pedestrian paseos that will serve both as the gateway to the City's Main Street shopping district and connect people to the downtown El Monte from Valley Boulevard.

Years Experience

35

Education

Certificate, 2016, Leadership Training, Harvard University Extension School

B.S.C.E., 1991, Civil Engineering, University of Baghdad

Licenses/Certifications

Professional Engineer - Civil, California, 2012, 80769

Terrence Chen, PE, QSD/P



Mr. Chen has extensive stormwater experience, including asset management, BMP siting/design, GPS inventory, and software/database development. He also has significant Caltrans experience with BMP siting/inspection, retrofit design, Stormwater Data Reports, Pollution Prevention Plans, TMDL analysis, water quality monitoring, and Stormwater Portal development.

RELEVANT EXPERIENCE

Pacific Coast Highway, Bolsa Chica Coastal Erosion Assessment, Huntington Beach, California. *Caltrans, District 12.* ENGINEER. Responsibilities included water quality. Michael Baker lead an investigation to identify potential causes of roadway embankment failure along the northbound side of Pacific Coast Highway in Huntington Beach. The investigation was prepared to identify potential causes of the roadway embankment failure to assist in the resolution of the California Coastal Commission incomplete letter related to a Coastal Development Permit. As part of the study, Michael Baker investigated several elements including general relationships related to tidal hydraulics, hydraulics associated with the Garden Grove-Wintersburg Channel, and potential impacts from the Bolsa Chica wetlands construction.

On-Call Water Quality Management Plan Implementation, Orange County, California. *Orange County Public Works.* CONTRACT MANAGER. Michael Baker is assisting with on-call WQMP implementation services, including meeting post-construction permit requirements primarily regarding low impact development (LID) and hydromodification controls for new development and significant redevelopment. WQMP-related services include preparation of regulatory plans, technical guidance documents, and annual reports; assessment of economic impacts of; development of case studies and training programs for cities and the development industry.

Aquatic Life Toxicity Studies Conducted in the Upper Newport Bay Watershed, Orange County, California. *Orange County.* ENGINEER. Responsible for organizing and presenting the data in a user-friendly interface via MS Access. Michael Baker conducted an investigation in Upper Newport Bay to gather information on the impacts and sources of toxicity in the receiving water to assist in setting a toxics TMDL for the watershed.

Storm Water Permit Implementation Assistance, Orange County, California. *Orange County.* ENGINEER. Responsible for assisting with permit renewal, ongoing implementation, and development of the Orange County Municipal NPDES Stormwater Program by providing support to the County and meeting key primary objectives including: continued compliance under the Third Term permits; providing support, as necessary, during the permit renewal process and transition to the Fourth Term permits; and implementing the requirements of the Fourth Term permits through revision of existing programs and development of new programs / materials as needed to ensure compliance. Michael Baker assisted with permit renewal, ongoing implementation, and development of the Orange County Municipal NPDES Stormwater Program by providing support to the county and meeting key primary objectives, including continued compliance under the Third Term permits.

Years Experience
26

Education
M.S., 2005, Civil Engineering, University of California, Irvine

Licenses/Certifications
Professional Engineer - Civil, California, 2007, 72085

Qualified SWPPP Developer (QSD), California, 2011

Qualified SWPPP Practitioner (QSP), California, 2011

Brad Losey, PE



Mr. Losey has experience in water resources and drainage projects ranging from small subdivisions to large highway projects. His involvement in those projects included hydrologic and hydraulic studies, computer modeling, project reports, storm drain design, and preparation of plans and specifications. He has prepared plans, specifications and estimates (PS&E)

RELEVANT EXPERIENCE

Orangewood Avenue Improvements Project, Anaheim, California. *City of Anaheim.* DRAINAGE MANAGER. Responsible for preparing the roadway drainage plans, Santa Ana River Hydraulics Analysis, and Scour Study for the widening of Orangewood Avenue. Michael Baker is assisting the City of Anaheim with civil, structural, and environmental engineering services to improve Orangewood Avenue in the cities of Anaheim and Orange as part of the Revised Platinum Triangle Expansion Project. The project would widen a portion of Orangewood Avenue from a five-lane roadway to a six-lane divided facility with medians and utility infrastructure improvements consistent with the Platinum Triangle minimum widening standards. As part of the project, Michael Baker is preparing an Addendum to the Final Subsequent Environmental Impact Report No. 339 as well as providing agency coordination, bridge inspection, and structural PS&E to widen the Orangewood Avenue Bridge.

Park Avenue over Grand Canal Bridge Replacement, Newport Beach, California. *City of Newport Beach.* ENGINEER. Indian Street and Cardinal Avenue Bridge, Moreno Valley, California. City of Moreno Valley. Drainage Manager. Responsible for channel hydraulic and channel scour calculations. Michael Baker is providing design and environmental services for a proposed bridge in the city of Moreno Valley, California. The proposed bridge will be along Indian Street and span Perris Valley Storm Channel Lateral A, approximately 1 mile south of the intersection of Iris Avenue and Indian Street. The proposed bridge type is anticipated to be a concrete prestressed cast-in-place three-span slab bridge with

a length of approximately 150 feet. Each span will have a length of approximately 50 feet. Two bents are proposed consisting of 24-inch diameter cast-in-drilled-hole (CIDH) piles. Design and environmental services include roadway, survey, structures, hydraulics, CEQA and NEPA documentation, and resource agency permitting.

Santa Clara River Levee, Ventura County, California. *Ventura County Watershed Protection District.* DRAINAGE MANAGER. Provided plan review and QA/QC for Michael Baker International's team in preparing the SCR-3 Levee plans. Michael Baker provided final engineering design services for the Santa Clara River Levee (SCR-3) for a two-mile reach downstream of Highway 101. The project goal is to correct these deficiencies and close the "gap" in the levee system. The construction of the project improvements will ultimately result in the ability to certify the levee system, provide flood protection for the City of Oxnard, and alleviate the mandatory flood insurance requirements for properties located in the Special Flood Hazard Area (SFHA). Michael Baker refined the project to develop a comprehensive set of alternatives to be considered and prepared cost estimates and evaluation of the alternatives to identify a recommended project. Michael Baker prepared final PS&E for the recommended project, which includes earthen levee improvements, concrete floodwall, and automated flood gate at the roadway crossing.

Years Experience

26

Education

B.S., 1999, Civil Engineering, University of California, Irvine

Licenses/Certifications

Professional Engineer - Civil, California, 2003, 65140

Miles Costanza, PE, LEED AP



Mr. Costanza's engineering experience is focused specifically in water and wastewater pipelines, pump stations, storage tanks, piping, and condition assessment. He has a proven record of leading design teams to provide detailed design plans, specifications, and in construction management in the water and wastewater industry. He has led teams of contractors, and engineers for the condition assessment, rehabilitation, design, and construction of water infrastructure.

RELEVANT EXPERIENCE

Potable Water Master Plan Update and Program EIR, Corona, California. *City of Corona.* ENGINEER. Provided development and review of CIP projects predicted by the hydraulic water model, facility data, and ongoing analysis. As part of the CIP development, provided field inspections of the City's water treatment facilities, including traditional water treatment facilities and an ion exchange facility. Provided inspection reports documenting finds to use as a basis for CIP development. Michael Baker is currently providing services to the city of Corona for the Potable Water Master Plan (PWMP) update and program EIR project.

EMWD Dunlap Recycled Pipeline. *Eastern Municipal Water District.* PROJECT ENGINEER. Responsible for project coordination and design or realignment or repair of existing recycled line. Project include evaluation of replacement and realignment of approximately 2,000 linear feet of 36-inch steel pipe.

Mission Springs Water and Sewer Master Plans, Desert Hot Springs, California. *Mission Springs Water District.* ENGINEER. Provided field inspections of water and sewer facility sites that included water storage reservoirs, pump stations, ground water well sites, sewer lift stations, and wastewater treatment facilities. Provided inspection reports documenting finds to use as a basis for CIP development. Site visits included condition assessment observations to document the present condition of the facility. Observed deficiencies or apparent operational concerns were noted for the short-term CIP and cost opinions were developed based on scope of work developed from on-site observations. Included in the inspection were complete

visits to the Desert Crest Water Treatment Plant and the Horton Water Treatment Plant. Michael Baker provided planning and engineering services to update the water and sewer master plans for the Mission Springs Water District. The master plans investigate the existing infrastructure, the District's service criteria, the supply and demand of the water system, and the production and treatment of the sewer collection system. They also create a model to simulate the city's current and future water and sewer system and a list of capital improvement projects for the City to implement to address deficiencies in the District's systems. Michael Baker relied on previous master plans, the District's recorded data, and other relevant documents to gain a better understanding of the District's overall system and create the master plans.

Beaumont-Cherry Valley Water Main Replacements. *Beaumont Cherry Valley Water District.* PIPELINE ENGINEER. Responsible for water line alignment study, utility verification, evaluating system connections, and general project oversight. Evaluated alternative alignments and pipe bursting trenchless rehabilitation methods to reduce the disturbance to replacement water lines on private property and in private drives. Project consisted of three replacement areas that included of 750 linear feet in Egan Alley of aged 2-inch and 4-inch waterlines with of 8-inch restrained DIP in the congested commercial alley; 2,500 linear feet of aged and undersized water lines with 8" restrained DIP in a narrow residential area, primarily in the private drive Apple Tree Lane; and 2200 linear feet of 8" DIP and 200 linear feet of 4" DIP in a narrow residential area and large section in private property.

Years Experience

18

Education

B.S., 2006, Civil and Environmental Engineering, Arizona State University

Licenses/Certifications

LEED Accredited Professional, 2008

Professional Engineer - Civil, California, 2017, C87843

Alex Maher, PE



Mr. Maher is experienced in design and preparation of construction plans, specifications, and cost estimates for large water and wastewater pipelines, water pumping stations, reservoirs, and in developing hydraulic models and performing hydraulic analyses. He has experience providing construction support for major water facilities throughout southern California.

RELEVANT EXPERIENCE

Humboldt Lift Station, Huntington Beach, California. *City of Huntington Beach.*

PROJECT ENGINEER. Michael Baker provided design engineering service for a new sewer lift station with a wet well/dry well setup, including two 3-HP pumps. The City replaced the old station, which had reached its lifespan, and upgraded the pumps from 155 gpm to 350 gpm to reduce pump cycles per hour.

3-64A Orange-Western Sub-Trunk Rehabilitation, Orange, California. *Orange County Sanitation District.* **PROJECT ENGINEER.** Responsible for developing the final plans, specifications, and cost estimate. Attended meetings and coordinated with OC San to address design concerns. Michael Baker provided topographic surveying, project control, base maps, and mapping and easements for the entire 3-64 Western Regional Rehabilitation project, which is comprised of four sub-trunk collection sewers totaling approximately 84,000 linear feet of pipeline. As part of this project, Michael Baker also provided engineering design services for the rehabilitation of the Orange-Western Sub-Trunk (3-64A), which serves the cities of Anaheim, Cypress, and Buena Park. Design services included utility research, pipeline and manhole rehabilitation analysis, preparation of preliminary design technical memoranda and reports, and preparation of contract drawings, specifications, and cost estimates.

Santa Ana River Baintem - BSNF Utility Relocation Design. *Riverside County Flood Control and Water Conservation District.* **PROJECT ENGINEER.** Responsible for coordinating with BNSF Railroad for permitting and design requirements, determining the alignment of the utility

relocation for water and electrical utilities, and overseeing the design and implementation of plans and specifications.

OC-44 Pipeline Rehabilitation/Replacement, Orange County, California.

Mesa Water District. **CIVIL ASSOCIATE.** Responsible for initial utility crossing research. Michael Baker provided engineering and environmental services to the Mesa Water District for the rehabilitation/replacement evaluation and cathodic protection study for the OC-44 Pipeline. The OC-44 pipeline runs 8.6 miles through Orange County. Michael Baker provided a comprehensive plan to investigate the condition of the existing pipeline, evaluate repair and/or replacement strategies, and identify permitting and follow-on technical studies required to implement the recommended strategy. Of the proposed alternatives, the solution selected called for sliplining 1,800 linear feet of 30-inch diameter pipeline inside the existing 42-inch steel pipe.

Santa Ana River Trail, Corona, Norco, Eastvale Segment, Riverside County, California. *Riverside County Regional Park & Open-Space District.* **PROJECT ENGINEER.**

Responsible for designing restroom facilities, a sewer lift station, gravity sewer, and sewer forcemain. Also responsible for coordinating issues involved with the design during construction, and the creation of record drawings for the final installed condition. Michael Baker provided planning, design, and permitting for approximately nine miles of regional bikeway and hiking/riding trails along the Santa Ana River (SAR). The trails begin at the Prado Dam outlet channel, part the dam and spillway, and extend up the river to the City of Eastvale.

Years Experience
12

Education
B.S.C.E., 2013, Civil Engineering, California State Polytechnic University, Pomona

Licenses/Certifications
Professional Engineer - Civil, California, 2016, 86584

David Eames, PE



Mr. Eames has experience and expertise in program management, civil design, and construction management. He has led and worked on public and private infrastructure projects, including local streets, grade separations, highways, transit, and private commercial development. His experience includes managing all aspects of project development including funding, environmental impact analysis, utility relocation, project design, program management, and construction management.

RELEVANT EXPERIENCE

Felipe Road/Oso Parkway Intersection Widening, Mission Viejo, California. *City of Mission Viejo.* PROJECT MANAGER. Michael Baker is providing design and engineering services for intersection widening at the intersection of Felipe Road and Oso Parkway. Improvements include widening to allow for additional right-turn lanes on Felipe Road and increasing the capacity of the left-turn pockets in all four quadrants of the intersection. Michael Baker is providing final PS&E, along with stormwater BMPs, retaining walls, utility relocation, road signage, and traffic signal improvements. Previously, Michael Baker developed concept plans and provided consulting services associated with PA/ED for improvements.

Shoemaker Bridge Replacement PA&ED, Long Beach, California. *City of Long Beach.* LEAD ENGINEER. Responsible for preparing the project report, preliminary engineering documents and engineering studies in support of the IS/EA environmental document of the replacement of the Shoemaker Bridge over the Los Angeles River. In addition, organized all preliminary engineering including geometrics, grading, drainage, water quality, project cost estimates, and CPM schedules. Collaborated with the project environmental lead to complete all required technical studies, including a Noise Study Report.

I-710 PAED, Los Angeles County, California. *LA Metro.* ENGINEERING STUDIES TASK LEADER. In support of the I-710 Environmental Impact Report, prepared engineering studies including the Hydrology and Hydraulics Report, Stormwater Data Report, and the Los Angeles River Impact Report. Also involved in preparing the I-710 Corridor cost estimate, and Utility Impact Report. Assisted in the preparation of various engineering studies in support of the I-710 EIR/EIS including the preparation of construction staging concept plans for various segments of the I-710.

Bus Stop Accessibility Program, Orange, California. *Orange County Transportation Authority.* CIVIL DESIGN MANAGER. Responsible for a construction contract with OCTA to retrofit bus stops. Work involved retrofitting bus stop locations throughout Orange County to improve ADA access. The project involved constructing new wheelchair ramps at intersections, adding sidewalks and removing or relocating obstructions such as trees, benches, signs and landscaping to create improved access for all passengers. The project included an aggressive construction schedule that required extensive coordination with local cities and bus transit operators.

GIS Deployment, Rancho Santa Margarita, California. *City of Rancho Santa Margarita.* PROJECT MANAGER. Managed the deployment of the City's Graphical Information System (GIS) and various capital projects. The GIS project involved scanning development plans and tract maps to create a geo-referenced on-line data base. ArcGIS software was utilized for the assimilation of large amounts of geospatial data into a web browser based user environment. This project involved coordination with various vendors and city departments including engineering, planning, computer technology and the police department.

Traffic Signal Upgrades, Rancho Santa Margarita, California. *City of Rancho Santa Margarita.* PROJECT MANAGER. Management responsibilities included managing the installation of three traffic signals. Project role included the management of design consultants, administration of construction bid opening and construction management.

Years Experience

31

Education

B.S., Civil Engineering,
California State
Polytechnic University,
San Luis Obispo

Licenses/Certifications

Professional Engineer,
California, 1996, 55501

Certified Project Manager

John Harris, PE



Mr. Harris has extensive experience in developing practical and cost effective solutions to water and wastewater design challenges and is a proven innovator of creative ideas and technical excellence. Mr. Harris is responsible for a full range of professional services including planning, design and construction support services for water supply, wastewater treatment, and water reclamation facilities.

RELEVANT EXPERIENCE

Sewer and Asbestos Cement Water Main Replacement, Group 778, San Diego, California. City of San Diego. PRINCIPAL-IN-CHARGE. Provided QA/QC management and technical advisement. Michael Baker served as the lead design firm and designer of record for this design-build project to replace approximately 5 miles of sewer mains, 5 miles water mains, and 2.25 miles of water main abandonment through the highly developed neighborhood of Encanto in southeast San Diego.

Eastside Sewer Pipeline Repairs, Solana Beach, California. City of Solana Beach. PRINCIPAL-IN-CHARGE. Responsible for closed circuit television condition assessment; prioritization of defects; recommendations for repair, rehabilitation, and replacement options; and design for 2,000 feet of pipe within sewer segments 1, 2, 4, 6 and 7, and a separate 20-foot replacement at Via De La Valle and South Cedros Avenue. Michael Baker provided sewer pipeline condition assessment services, including review of existing geographic information system maps and closed circuit television video, to prioritize repairs on lines that had the greatest defects. The resulting final reports prioritized numerous segments throughout the system and offered recommendations for repair, rehabilitation, and replacement options for segments that were in urgent need of attention.

OC-44 Pipeline Rehabilitation, Orange County, California. Mesa Water District. PROJECT MANAGER. Responsible for project management, preliminary design, final design and preparation of construction bid documents. Michael Baker provided a comprehensive plan to investigate the condition of the existing pipeline, evaluate repair and/or replacement strategies, and identify permitting and follow-on technical studies required to implement the recommended strategy. Of the proposed

alternatives, the solution selected called for sliplining 1,800 linear feet of 30-inch diameter pipeline inside the existing 42-inch steel pipe.

Santa Ana Regional Interceptor Rehabilitation, Orange County, California. Santa Ana Watershed Project Authority. PROJECT MANAGER. Responsible for project management. Michael Baker provided site brush clearing and grubbing services in preparation of repairs to Reaches IV-A Lower and IV-B of the SARI line network, which run through sensitive environmental habitat behind Prado Dam. Michael Baker performed the work as part of the contract for design of repairs to the entire pipeline network, which encompasses approximately five miles of 27-inch, three miles of 36-inch, and three miles of 42-inch pipe and contains unlined RCP. The design called for rehabilitation of the 27-inch pipe using the cured-in-place pipe (CIPP) technique and repairs to the 36-inch and 42-inch sections using live-stream segmental slip-lining technique.

La Jolla Scenic Drive Water and Sewer Pipeline, San Diego, California. City of San Diego Economic Development. PROJECT MANAGER. Principal Engineer for the preparation of plans and specifications for the replacement of the water main pipeline. Michael Baker completed design for the replacement of 18,555 linear feet of asbestos cement water main and 1,573 linear feet of sewer main with 16", 12" and 8" PVC water and sewer main for the La Jolla Scenic Drive project, which will provide a reliable water supply to the Soledad Muirlands/La Jolla West Water System with operational flexibility. Michael Baker's work included associated water services, fire hydrants, curb ramps, and traffic control. The project is intended to improve hydraulic capacity and system redundancy in the City's Soledad Muirlands.

Years Experience

47

Education

M.S., 1988, Civil Engineering, San Diego State University

Licenses/Certifications

Professional Engineer - Civil, California, 1984, 38217

David Mercier, PE, CGP, LEED AP, QSP/D



Mr. Mercier specializes in surface water management and water quality. He manages stormwater programs for diverse industries, focusing on client needs to develop practical solutions. He has extensive experience with NPDES and MS4 program support, as well as industrial and construction stormwater compliance.

RELEVANT EXPERIENCE

Laguna Beach Village Entrance, Laguna Beach, California. *City of Laguna Beach.* TASK MANAGER. Responsible for the development of the water quality concept to meet requirements of the South Orange County MS4 permit. Treatment options included permeable pavement, water quality basins, and proprietary devices. Michael Baker provided architectural and engineering services for the planning, design, and construction of the Village Entrance. Michael Baker's services included architecture, landscape architecture, civil and structural engineering, environmental services, and related professional services.

On-Call Stormwater / NPDES Services, Southern California. *Eastern Municipal Water District.* PROJECT MANAGER. Provided on-call construction stormwater support to EMWD for various construction projects. Provided NPDES expertise and developed program elements to meet the District's stormwater needs. Ensured compliance with the Construction General Permit, and provided training for staff and contractors.

Stormwater BMP Design, Creston Avenue, Signal Hill, California. *City of Signal Hill.* PROJECT MANAGER. Responsible for project oversight. Michael Baker partnered with the client to design a dry well system to address the water quality runoff from a 24-acre portion of Signal Hill, California. The BMP system included a diversion system from a Los Angeles County storm drain, a storage system with incorporated pretreatment, and a series of dry wells for infiltration. Diversion of runoff to the system was hydraulically controlled to reduce project materials and as a secondary connection back to the storm drain.

Upper Sulfur Creek Channel Restoration, Orange County, California. *City of Laguna Niguel.* ENGINEER. Performed a sediment transport analysis to determine channel stability for the restored creek bed, and analyzed the stability using the Erodibility Index method. Michael Baker provided engineering services for the restoration of a 1.5-mile reach of the Upper Sulphur Creek channel. Restoration efforts included removal of invasive vegetation, revegetation of riparian habitat, restoration of channel sinuosity, concrete-lined channel removal, and grading. Tasks included hydrology and hydraulic modeling, channel stability analysis, conceptual and final construction plans preparation, cost estimate preparation, and coordination with the county, adjacent homeowners association, and City of Laguna Niguel.

Stormwater Facilities Implementation Plan, Carson, California. *City of Carson.* TECHNICAL ADVISOR. Responsible for leading the team dedicated to screening locations throughout the City to identify preferred locations for various BMP opportunities at regional and local scales. Potential BMP locations were then scored for prioritization and captured in a CIP to guide construction and identify projects for grant funding. Prepared concept plans for regional, drywell, and green street opportunities for the highest rated projects. The final product is an interactive, web-based dashboard to display the projects and manage activities throughout plan implementation. Michael Baker is providing a holistic view of stormwater management in the city through development of the Stormwater Facilities Implementation Plan by working with internal and external stakeholders through community outreach and engagement.

Years Experience
22

Education
B.S., 2003, Civil and Environmental Engineering, University of California, Los Angeles

Licenses/Certifications
Professional Engineer - Civil, California,, 71531

Qualified SWPPP Developer, California

Qualified SWPPP Practitioner, California

Qualified Industrial Stormwater Practitioner

Alan Ashimine



Mr. Ashimine prepares environmental and planning studies for public and private sector clients under the CEQA and NEPA. He has extensive experience in the research, analysis, and writing of environmental documentation for a variety of projects involving infrastructure, redevelopment, residential, and industrial uses. Using his broad background and understanding of environmental constraints, Mr. Ashimine provides defensible CEQA/NEPA compliance review and environmental documentation.

RELEVANT EXPERIENCE

Venta Spur Trail Bicycle and Pedestrian Bridge Over SR 133. *City of Irvine.*

ENVIRONMENTAL MANAGER. Responsible for environmental documentation. Michael Baker assisted with the preliminary design and environmental documentation for the extension of the Venta Spur Trail across S.R. 133 and Marshburn Channel. The trail extension was a key element of the city's Master Plan of Open Space and Trails, connecting adjacent communities with a Class I bikeway and pedestrian bridge between the Village of Woodbury East and the Great Park. The project also provided access from the surrounding neighborhoods to Portola High School.

El Camino Real Bridge and Road Widening. *City of San Diego Economic Development.*

ENVIRONMENTAL MANAGER. Responsible for environmental documentation. Michael Baker assisted with preparation of an environmental assessment (EA) under the NEPA for the project. The project was required to correct seismic and operational deficiencies associated with the El Camino Real Bridge. The city proposed to reconstruct and widen the 340-foot-long bridge over the San Dieguito River. The EA and supporting technical studies included preparation of a detailed biological analysis to determine potential impacts to federally listed species.

Brookhurst Street / Adams Avenue Intersection Improvement EIR, Huntington Beach, California. *City of Huntington Beach.*

PROJECT MANAGER. Responsible for environmental documentation. Michael Baker prepared an EIR for the Brookhurst Street/Adams Avenue Intersection Improvements project for the City of Huntington Beach. The project proposed improvements along Brookhurst Street

approximately 1,000 feet north of Adams Avenue and 800 feet south of Adams Avenue, and along Adams Avenue approximately 1,300 feet west of Brookhurst Street and 1,200 feet east of Brookhurst Street. The project also resulted in two northbound right-turn lanes, one southbound right-turn lane, one eastbound through lane, and one westbound through lane. Approximately 31,230 square feet of right-of-way from the adjoining parcels was acquired.

Laguna Beach Village Entrance Project, Laguna Beach, California. *City of Laguna Beach.* **ENVIRONMENTAL SPECIALIST.** Managed preparation of the environmental document and related technical studies. Michael Baker provided architectural and engineering services for the planning, design, and construction of the Village Entrance Project. Michael Baker's services included architecture, landscape architecture, civil and structural engineering, environmental services, and related professional services.

OC-44 Pipeline Rehabilitation/Replacement Project, Orange County, California.

Mesa Water District. **ENVIRONMENTAL SPECIALIST.** Managed the preparation of the environmental document. Michael Baker provided a comprehensive plan to investigate the condition of the existing pipeline, evaluate repair and/or replacement strategies, and identify permitting and follow-on technical studies required to implement the recommended strategy. Of the proposed alternatives, the solution selected called for sliplining 1,800 linear feet of 30-inch diameter pipeline inside the existing 42-inch steel pipe.

Years Experience

25

Education

B.A., 2000, Environmental Analysis and Design, University of California, Irvine

Steve Slocum, PLS



Mr. Slocum experience includes ALTA Surveys, boundary, topographic, subdivision, control, monitoring, 3D modeling, and construction surveys. Mr. Slocum is experienced in using various types of surveying equipment and software, including Trimble GNSS, Total stations, Static LiDAR, Civil 3D, along with different surveying and construction grading software.

RELEVANT EXPERIENCE

Santa Ana River Interceptor (SARI) Relocation/Protection On-Call Topographic Field Survey, Orange County, California. *Orange County Sanitation District. SURVEYOR.* Responsible for field surveys. Michael Baker has assisted the OCSD and Santa Ana Watershed Project Authority for several years by conducting topographic surveys to assess the stability of the pipeline and manholes along the subject Santa Ana River Interceptor (SARI) line segment. Michael Baker has conducted field surveying for each monitoring survey at critical locations to assess the current pipe depth and compare changes in the pipe depth with previous reports. Work included taking survey cross sections and profiles of the SARI line and the Santa Ana River bed at various locations.

3-64A Orange-Western Sub-Trunk Rehabilitation, Orange County, California. *Orange County Sanitation District. SURVEY MANAGER.* Responsible for land survey field crews. Charged with land survey field crews in a contract which provided topographic surveying, project control, base maps, and mapping and easements for the entire 3-64 Western Regional Rehabilitation project, which is comprised of four sub-trunk collection sewers totaling approximately 84,000 linear feet of pipeline. Responsibilities included topographic mapping, aerial mapping, geodetic control surveys, right-of-way, as well as CL and constraints mapping. Michael Baker provided topographic surveying, project control, base maps, and mapping and easements for the entire 3-64 Western Regional Rehabilitation project, which is comprised of four sub-trunk collection sewers totaling approximately 84,000 linear feet of pipeline.

Orange County-44 Pipeline Rehabilitation/Replacement, Orange, California. Mesa Water District. SURVEYOR. Responsible for field surveys. Michael Baker assisted the Orange Unified School District with stormwater management services. The district was subject to the Phase II Small Municipal Separate Storm Sewer System (MS4) Permit. Michael Baker assisted the district in understanding and meeting the requirements of the various stormwater permits that potentially impacted the Lampson Elementary School Modernization project. Michael Baker worked with the district and the city to establish an appropriate water quality strategy to meet applicable NPDES permits. Michael Baker also provided survey services for a three-acre parking lot at a high school site and designed a treatment BMP to meet the requirements for post-construction BMPs as part of the construction general permit.

Cañada Channel Sewer Protection, Laguna Hills, California. El Toro Water District. PARTY CHIEF. Responsible for field surveys. Michael Baker assisted El Toro Water District in drafting a jurisdictional delineation and acquiring permits for the proposed Canada Channel Sewer Protection Project, located in the City of Laguna Hills, Orange County. Canada Channel is a regional drainage facility owned and maintained by the Orange County Flood Control District (OCFCD). To prevent the existing sewer crossing from being exposed and damaged, the El Toro Water District proposed to line Canada Channel with loose riprap upstream and downstream of the existing sewer line.

Years Experience
23

Education
Certificate, 2004, Land Surveying, Santiago Canyon College

B.A., 2023, Management, Azusa Pacific University

Licenses/Certifications
Professional Land Surveyor, California, 2013, 9044

Dino Serafini, PE



Mr. Serafini has extensive public infrastructure planning, financing, design, and construction management experience in California working with city, county, school district, military, and private clients. He has facilitated the formation of several special financing districts that were specifically created to finance and maintain facilities serving both new communities and redevelopment projects.

RELEVANT EXPERIENCE

Solana Beach Land Lease & Sand Mitigation, Solana Beach, California. *City of Solana Beach.* PROJECT ENGINEER. Responsible for assessing the public benefits of privately constructed seawalls in order to determine if a mitigation fee offset was warranted. Michael Baker, with CIC Research Inc. as a subconsultant, prepared the fee report to determine the recreational value of the beach at various locations. The Draft LCP Land Use Plan provides for the construction of sea walls and notch fills. The study was to provide a method for beach valuation for use in determining a land lease/recreation fee should a protective device be constructed, and secondly, to provide an analysis for offsets to the land lease/recreation fee.

Long Range Transportation Plan Services, El Centro, California. *Imperial County Transportation Commission.* TECHNICAL MANAGER. Developed the funding plan for proposed long range transportation capital improvements program in Imperial County, California. Michael Baker coordinated the Long Range Transportation Plan (LRTP) with other relevant planning efforts and agencies, such as the commission's 2013 LRTP, Southern California Association of Governments 2020 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS), Imperial County Transportation Commission regional transit planning efforts, active transportation plans, corridor plans, and freight plans.

Community Benefit Agreements. *San Diego County.* PROJECT MANAGER. Managed the development of the County of San Diego's formal Community Benefit Agreement Program, including, best practices research, a stakeholder outreach plan, social impact assessment process, cost-benefit and risk assessment and codified regulatory procedures.

Wastewater Treatment Plant Financing, Williams, California. *City of Williams.* PROJECT ENGINEER. The City's proposed wastewater treatment plant was estimated to cost \$27.3 million and would result in cleaner water discharge, bringing the City into compliance with federal and state clean water regulations as well as serving existing agricultural, commercial, industrial, and residential users and accommodating future growth. Michael Baker's Municipal Finance Group provided all assessment engineering and Proposition 218 ballot services for Assessment District 2007-1. In addition, Michael Baker created guidelines and policies for establishing community facility districts to fund services and debt financing.

Community Project Planning and Environmental Services, Stockton, California. *City of Stockton.* PROJECT ENGINEER. Michael Baker is providing project-specific planning and environmental support to the city's Community Development Department Planning Division for the review and processing of current planning projects. Specific responsibilities include site plan review, preparation of staff reports to the planning commission and city council, noticing, applicant coordination, site inspections, and CEQA documentation including environmental review and analysis.

San Marcos CIP Projects Reimbursement District, California. *City of San Marcos.* PROJECT ENGINEER. Responsible for preparation of reimbursement district rate, method of apportionment and City documentation. Michael Baker created a cost reimbursement district to allow a developer who constructed oversize public improvements to recoup oversizing costs from other benefiting property owners. Provided services to prepare engineer's reports necessary to form reimbursement districts for the South Santa Fe Avenue, Twin Oaks Valley Road, Las Posas Road, and Barham Dr Reimbursement Districts projects.

Years Experience

29




Education

M.A., 1978, Environmental Policy and Management, University of California, Riverside

Licenses/Certifications

Professional Engineer - Civil, California, 1993, 51164

The table below lists individuals who will be working on this project and the functions they will perform. The table highlights the qualifications of our staff proposed for the City's On-Call Contract. Michael Baker understands that any proposed changes to personnel on this project must receive prior review and acceptance by the City before any work is begun.

Name	Licenses/Registrations	Function	Years of Exp.	Education	Work Experience
John Nagle 	Professional Engineer - Civil, CA, 1991, 46972 Water Rights Surveyor, Nevada, 2001, 1101	Contract Manager, Water, Sewer, Stormwater Discipline Lead	38	M.S., 1996, Civil Engineering, Loyola Marymount University	Humboldt Lift Station, Huntington Beach, CA, City of Huntington Beach. Project Manager. 44 Pipeline Rehabilitation, Orange County, CA, Mesa Water District. Principal-In-Charge. Tustin Legacy SAMP Updates, Irvine, CA, Irvine Ranch Water District. Principal-In-Charge.
Todd McIntyre	N/A	Principal-in-Charge	24	Master of Urban and Regional Planning, 2006, University of Southern California B.A., 1996, Spanish, Morehouse College	33rd Street Waterline Replacement, Signal Hill, CA. City of Signal Hill. Principal-In-Charge. Metrolink, Los Angeles, CA. Southern CA Regional Rail Authority. Principal-In-Charge.
Dan Smith 	Construction Quality Management for Contractors, 2020, 784 Professional Engineer, CA, 1984, 37682	Potable Water Pipeline Engineering Potable Water Wells, Reservoirs & Booster Stations	44	B.S., 1981, Civil Engineering, University of Wisconsin	3-64A Orange-Western Sub-Trunk Rehabilitation, Orange County, CA. OCSD. Technical Advisor MacArthur Force Main Improvements, Project No. 7-68, Orange County, CA. OCSD. QA/QC Engineer.
Sarmad Farjo 	Professional Engineer - Civil, CA, 2012, 80769 Chartered Professional Engineer - New Zealand, 2004, 244887	General Civil Engineering Discipline Lead	35	Certificate, 2016, Leadership Training, Harvard University Extension School B.S.C.E., 1991, Civil Engineering, University of Baghdad	Crown Valley Parkway Westbound Widening, Laguna Niguel, CA. City of Laguna Niguel. Project Manager. Bastanchury Road Widening, Yorba Linda, CA. City of Yorba Linda. Principal-In-Charge. Norco Bluffs Haul Route Pavement Investigation, Norco, CA. OCPW. Project Manager.

Name	Licenses/Registrations	Function	Years of Exp.	Education	Work Experience
Terrence Chen	Professional Engineer - Civil, CA, 2007, 72085 Qualified SWPPP Developer (QSD), CA, 2011 Qualified SWPPP Practitioner (QSP), CA, 2011	Environmental and Water Quality Discipline Lead	26	M.S., 2005, Civil Engineering, University of California, Irvine B.S., 1998, Environmental Engineering, University of California, Irvine	Bastanchury Road Improvements, Yorba Linda, CA. City of Yorba Linda. Water Quality Engineer. On-Call Water Quality Management Plan Implementation Services, Orange County, CA. OCPW. Contract Manager. Cow Camp Road, Mission Viejo, CA. Rancho Mission Viejo, LLC. Water Quality Engineer.
Alex Maher	NASSCO Manhole Assessment & Certification, CA, 2025, U-0721-70402535 NASSCO Lateral Assessment & Certification, CA, 2025, U-0721-70402535 NASSCO Pipeline Assessment & Certification, CA, 2025, U-0721-70402535 Professional Engineer - Civil, CA, 2016, 86584	Potable Water Pipeline Engineering, Wastewater Engineering & Master Plan Updates, Potable Water Master Plan & Financial Plan Updates	12	B.S.C.E., 2013, Civil Engineering, California State Polytechnic University, Pomona	OC-44 Pipeline Rehabilitation/Replacement, Orange, CA. Mesa Water District. Civil Associate. Landmark Sewer Lift Station Design, Newhall, CA. Newhall Land and Farming. Project Engineer. Citywide Sanitary Sewer Improvement Program Group 5, Project 2, Anaheim, CA. City of Anaheim. Civil Associate.
Miles Costanza	LEED Accredited Professional, 2008 Professional Engineer - Civil, CA, 2017, C87843	Potable Water Wells, Reservoirs, and Booster Stations	18	B.S., 2006, Civil and Environmental Engineering, Arizona State University	Potable Water Master Plan Update and Program EIR, Corona, CA. City of Corona. Engineer. Dunlap Recycled Pipeline, Perris, CA. Eastern Municipal Water District. Project Engineer Mission Springs Water and Sewer Master Plans, Desert Hot Springs, CA. Mission Springs Water District. Engineer

Name	Licenses/Registrations	Function	Years of Exp.	Education	Work Experience
Kris Olsen	Professional Engineer - Civil, CA, 2005, 68068	Wastewater Engineering & Master Plan Updates Potable Water Master Plan & Financial Plan Updates	25	M.S., 2009, Engineering Management, California State Polytechnic University, Pomona B.S., 1999, Civil Engineering, University of Kansas	Design, Bid, and Construction Support Services for New Regional Pump Station and Chlorine Contact Tank, Temecula, CA. Rancho CA Water District. Senior Engineer. Kearny Mesa Trunk Sewer Design, San Diego. CA. City of San Diego Economic Development. Deputy Project Manager. On-Call Engineering Services, Imperial Beach, CA. City of Imperial Beach. Project Manager.
John Harris	Professional Engineer - Civil, CA, 1984, 38217	Quality Control Manager	47	M.S., 1988, Civil Engineering, San Diego State University	Morena Pump Station and Conveyance System, San Diego, CA. City of San Diego. Project Manager. Murphy Canyon Road Trunk Sewer, San Diego, CA. City of San Diego Economic Development. Project Manager. OC-44 Pipeline Rehabilitation, Orange County, CA. Mesa Water District. Project Manager.
Brad Losey	Professional Engineer - Civil, CA, 2003, 65140	Stormwater Engineering	26	B.S., 1999, Civil Engineering, University of California, Irvine	Indian Street and Cardinal Avenue Bridge, Moreno Valley, CA. City of Moreno Valley. Drainage Manager. Orangewood Avenue Improvements, Anaheim, CA. City of Anaheim. Drainage Manager. Dry Canyon Storm Water Detention Basin, Simi Valley, CA. City of Simi Valley. Design Engineer.
Mujahid Chandoo	Professional Engineer - Civil, CA, 2010, C76633	Stormwater Engineering	19	BS, Civil Engineering, California State University, Fullerton	Cow Camp Road, Rancho Mission Viejo, CA. Rancho Mission Viejo, LLC. Project Engineer. Santa Clara River Levee, Ventura County, CA. Ventura County Watershed Protection District. Project Engineer. South Norco Channel Stage 2 Improvement, Norco, CA. Riverside County Flood Control Water Conservation. Technical Lead.

Name	Licenses/Registrations	Function	Years of Exp.	Education	Work Experience
Jenna Clark	Professional Engineer - Civil, CA, 2019, 91069	Stormwater Engineering	10	B.S., 2016, Civil Engineering/ Environmental, California State Polytechnic University, Pomona	Morrison Creek Revitalization Study, Sacramento, CA. City of Sacramento. Task Manager. Stormwater Harvesting Alternative Analysis Feasibility Study, Long Beach, CA. City of Long Beach. Task Manager. Drainage Master Plan, Ontario, CA. City of Ontario. Project Manager.
David Eames	Professional Engineer, CA, 1996, 5550	Roadway	31	B.S., Civil Engineering, California Polytechnic University, San Luis Obispo	Felipe Road/Oso Parkway Intersection Widening, Mission Viejo, CA. City of Mission Viejo. Project Manager. On-Call Road and Bikeway Projects. OCPW. Project Manager.
Frank Tran	Professional Engineer - Civil, CA, 2002, 62845	Roadway	28	B.S.C.E., 1997, Civil Engineering, California State Polytechnic University, Pomona	Felipe Road/Oso Parkway Intersection Improvements PA/ED, Mission Viejo, CA. City of Mission Viejo. Senior Civil Engineer. 4th Street Roadway Rehabilitation, 4th Street, Long Beach, CA. City of Long Beach. Technical Manager. Studebaker Road Complete Streets, Long Beach, CA. City of Long Beach. Technical Manager. San Antonio Drive Improvement, Long Beach, CA. City of Long Beach. Senior Civil Engineer
Jerrika David	Engineer-In-Training, CA, 2017, 161840	Roadway	11	B.S., Civil Engineering, California State University at Long Beach	Consulting Services Long Beach Harbor Dept., Port of Long Beach, CA. Port of Long Beach. Civil Associate. Felipe Road/Oso Parkway Intersection Widening, Mission Viejo, CA. City of Mission Viejo. Civil Associate. Garvey Avenue Corridor Complete Streets Feasibility Study, El Monte, CA. City of El Monte. Civil Associate.
Marc Violet	Professional Engineer - Civil, CA, 2008, 73486	Traffic	16	BS, Civil Engineering, University of Arizona	Culver Drive TSSP, Orange County, CA. City of Irvine. Project Manager. Seal Beach Boulevard Traffic Signal Synchronization, Seal Beach, CA. City of Seal Beach. Project Manager. . Studebaker Road Complete Streets, Long Beach, CA. City of Long Beach. Traffic Engineer

Name	Licenses/Registrations	Function	Years of Exp.	Education	Work Experience
Saeed Kerayehchian	Professional Engineer - Civil, CA, 2018, 89422 Professional Traffic Operations Engineer, CA, 2019, 4710	Traffic	17	M.S.E., 2008, Transportation Engineering, Azad University, Iran	Studebaker Road Complete Streets, Long Beach, CA. City of Long Beach. Technical Manager. Los Angeles Bureau of Engineering Parkview, Los Angeles, CA. City of Los Angeles. Technical Manager. T-Intersection Standardization, Irvine, CA. City of Irvine. Technical Manager.
Javier Ruedas	Engineer-In-Training, CA, 2023, 179734	Traffic	6	B.S.C.E., 2022, Civil Engineering, California State Polytechnic University, Pomona	Culver Drive TSSP, Orange County, CA. City of Irvine. Engineering Technician. Studebaker Road Complete Streets, Long Beach, CA. City of Long Beach. Civil Associate. Walnut Street Corridor Signal Improvements, Pasadena, CA. City of Pasadena. Engineering Technician.
Pooya Haddadi	Structural Engineer, CA, 2012, 5860 Professional Engineer, CA, 2009, 74098	Bridge Design	20	M.S., 2010, Structural Engineering, California State University at Fullerton B.S., 2006, Civil Engineering, San Jose State University	I-405 South Multi-Asset Design-Build, Irvine, CA. Caltrans. Structural Designer. I-15 Corridor Freight and Express Lanes PS&E, San Bernardino and Riverside Counties, CA. San Bernardino Associated Governments. Lead Structural Engineer. S.R. 60 and World Logistics Center Parkway Interchange, Moreno Valley, CA. City of Moreno Valley. Structural Designer.
Fabio Sanchez-Duran	Professional Engineer - Civil, CA, 1994, 52764 Structural Engineer, CA, 1998, 4234	Bridge Design	45	BS, Civil Engineering, Pontificia Universidad Javeriana, Bogota, Colombia	Newport Coast Drive Tunnel Extension, Newport Beach, CA. County of Orange. Structural Engineer. I-5 Gateway, Orange, CA. OCTA. Structural Engineer. Marshburn Retarding Basin, Orange, CA. Irvine Community Development Company. Structural Engineer.
Jessica Mosquera	Professional Engineer - Civil, CA, 1993, C51049	Bridge Design	38	M.S., 1988, Civil Engineering/Structures, University of California, Berkeley	Harbor Island Bridge, Newport Beach, CA. Harbor Island Community Association. Engineer. I-605 and Katella Interchange Improvements, Los Alamitos, CA. OCTA. Bridge Engineer. I-5 / Avenida Vista Hermosa Interchange Bridge Rehabilitation, San Clemente, CA. City of San Clemente. Structural Designer.

Name	Licenses/Registrations	Function	Years of Exp.	Education	Work Experience
Ron Stone	Professional Engineer - Civil, CA, 2007, C71675	Grading/Site	36	B.S.C.E., 1988, Civil Engineering, Northeastern University	I-605 and Katella Interchange Improvements, Los Alamitos, CA. OCTA. Civil Engineer. Studebaker and S.R. 22 Realignment, Long Beach, CA. City of Long Beach. Civil Engineer. Studebaker Road Complete Streets, Long Beach, CA. City of Long Beach. Civil Engineer.
Da Cheng Lee	Professional Engineer - Civil, CA, 2009, 75150	Parking Lots	23	M.B.A., University of Arizona M.E., Construction Management, State University of New York at Buffalo M.S., Geotechnical Engineering, National Taiwan University Science/Technology B.S., Civil Engineering, National Taiwan University	S.R. 91 PA/ED Improvements from S.R. 57 to S.R. 55, Orange County, CA. OCTA. Civil Engineer. S.R. 91 Westbound Widening from Shoemaker to I-605, Los Angeles, CA. Los Angeles County Metropolitan Transportation Authority. Civil Engineer.
Susan Zhang	Professional Engineer, CA, 2018, C89665	Parking Lots	9	M.S., 0, Environmental Engineering, University of California, Irvine	Felipe Road/Oso Parkway Intersection Widening, Mission Viejo, CA. City of Mission Viejo. Project Engineer Studebaker Road Complete Streets, Long Beach, CA. City of Long Beach. Project Engineer. 33rd Street Waterline Replacement, Signal Hill, CA. City of Signal Hill. Project Engineer.
Steve Slocum	Professional Land Surveyor, CA, 2013, 9044	Land Surveying	23	Certificate, 2004, Land Surveying, Santiago Canyon College B.A., 2023, Management, Azusa Pacific University	Marblehead Coastal Development, San Clemente, CA. Taylor Morrison. Survey Manager. Atlantic Avenue Cast Iron Main Replacement, Long Beach, CA. Long Beach Water Department. Party Chief. I-5/Jamboree Road Interchange Improvement, Irvine, CA. City of Irvine. Party Chief.

Name	Licenses/Registrations	Function	Years of Exp.	Education	Work Experience
Kevin Hills	Land Surveyor, 1991, 6617	Land Surveying	38	MBA Pepperdine University, Malibu, California Diploma of Technology, Surveying and Mapping-British Columbia Institute of Technology	County Surveyor, Orange County, CA. OCPW. Surveyor. On-Call Land Surveying Services Orange County, CA. OCPW. Project Surveyor Park and Recreation Dept. As Needed Consultant Services - Real Estate, Los Angeles, CA. Los Angeles County, Department of Public Works. Survey Manager.
Tim McKinney	OSHA 10-Hour Construction Outreach Training, 2015 Professional Land Surveyor, CA, 2022, 9673	Land Surveying	5	BA, Philosophy, Biola University	Saybrook Lift Station Replacement, Huntington Beach, CA. City of Huntington Beach. Surveyor. 3-64A Orange-Western Sub-Trunk Rehabilitation, Orange County, CA. OCSD. Surveyor. On-Call Land Surveying Services, Long Beach, CA. Port of Long Beach Contract Manager.
Tony Rai	N/A	Land Surveying	41	Certificate, Civil Engineering, Industrial Training Institute	I-5/Avenida Vista Hermosa Interchange ROW Cleanup, San Clemente, CA. City of San Clemente. Survey Technician. Orange/Western Regional Trunk Sewer Rehabilitation, Orange, CA. OCSD. Survey Technician. Bayview Restoration, Newport Beach, CA. City of Newport Beach. Survey Technician.
David Mercier	Professional Engineer - Civil, CA., 71531 Qualified SWPPP Developer, CA Qualified SWPPP Practitioner, CA Qualified Industrial Stormwater Practitioner	Water Quality and Quality Control Support	22	B.S., 2003, Civil and Environmental Engineering, University of California, Los Angeles	Stormwater Facilities Implementation Plan, Carson, CA. City of Carson. Technical Advisor. Caltrans NPDES and Construction General Permit Review and Assistance, Statewide, CA. Caltrans, District 8. Engineer. Technical Expert. Stormwater BMP Design, Creston Avenue, Signal Hill, CA. City of Signal Hill. Project Manager.

Name	Licenses/Registrations	Function	Years of Exp.	Education	Work Experience
Wilfred Hsu	Qualified SWPPP Practitioner (QSP), CA, 2010, 23491 Qualified SWPPP Developer (QSD), CA, 2010, 23491 Professional Engineer - Civil, CA, 2000, 61156	Water Quality	28	M.S., 1997, Civil and Environmental Engineering, University of California, Los Angeles	Syd Kronenthal Park Stormwater Capture, Culver City, CA. Culver City. Project Manager. Garvey Avenue Corridor Complete Streets Feasibility Study, El Monte, CA. City of El Monte. Technical Lead. Stormwater Facilities Implementation Plan, Carson, CA. City of Carson. Project Manager.
Andrew Bjork	Professional Engineer - Civil, CA, 2022, 94277	Water Quality	10	M.S., 2020, Environmental Engineering, Johns Hopkins University B.S.C.E., 2016, Civil and Environmental Engineering, University of South Carolina	Felipe Road/Oso Parkway Intersection Widening, Mission Viejo, CA. City of Mission Viejo. Civil Associate. Yorba Linda Master Plan of Drainage Update, Yorba Linda, CA. City of Yorba Linda. Civil Associate. The District at South Bay Specific Plan, Carson, CA. City of Carson. Civil Associate.
Chris Crompton	Water Treatment Operator, Grade II, CA, 1988, 12148	Water Quality	40	Post-Baccalaureate Certificate, 1977, Education, University of Nottingham BSc, 1976, Biological Sciences, University of Nottingham	Pollution Prevention Plan, Newport Bay, CA. OCPW. Technical Manager. Fountain Valley NPDES Program Management Support Services, Fountain Valley, CA. City of Fountain Valley. Technical Manager. Stormwater Facilities Implementation Plan, Carson, CA. City of Carson. Technical Manager.

Name	Licenses/Registrations	Function	Years of Exp.	Education	Work Experience
Danielle Rigali	Envision Sustainability, 49214 Professional Engineer - Civil, CA, 93397 IGP Qualified Industrial Stormwater Practitioner Trainer of Record, CA, 0860 Qualified SWPPP Developer, CA, 23396 Qualified Industrial Stormwater Practitioner, CA, 00860	Monitoring and Inspections	20	M.S.C.E., 2007, Civil and Environmental Engineering, University of California, Los Angeles B.S.C.E., 2005, Chemical Engineering, University of California, Los Angeles	Comprehensive Human Waste Source Reduction Strategy Stakeholder Outreach, Orange County, CA. OCPW. Project Manager. Sediment and Water Quality Monitoring, Long Beach, CA. Port of Long Beach. Project Manager. Pollution Prevention Plan, Newport Bay, CA. OCPW. Project Manager.
Elizabeth Ruedas	Professional Engineer - Civil, CA, 06/15/2017, 09/30/2025, 87915	Monitoring and Inspections	11	B.S., Civil Engineering, University of California, Irvine, 2014	NPDES Program Management Support Services, Fountain Valley, CA. City of Fountain Valley. Assistant Project Manager. I-10/Robertson at National Interchange Improvements, Los Angeles, CA. City of Los Angeles. Project Engineer. Water-Quality Management Plan Review, San Juan Capistrano, CA. City of San Juan Capistrano. Project Engineer.
Kylee Nakata	Engineer-In-Training, CA Qualified Industrial Stormwater Practitioner, CA, 11/25/2026	Monitoring and Inspections	4	B.S., Environmental Engineering, San Diego State University, 2021	TBMP Reconciliation, Los Angeles, CA. Caltrans. Civil Associate. Pollution Prevention Plan, Newport Bay, CA. OCPW. Civil Associate. La Pata Avenue Water Quality BMP, Orange County, CA. OCPW. Civil Associate.
Max Kalber	Certified Erosion, Sediment and Stormwater Inspect, CA,	Monitoring and Inspections	4	B.S., Hydrologic Sciences, University of California, Santa Barbara, 2021	Culver Boulevard Realignment and Stormwater Treatment, Culver City, CA. City of Culver City. Environmental Associate. Stormwater Facilities Implementation Plan, Carson, CA. City of Carson. Environmental Associate. Wet Weather Season Monitoring, Long Beach, CA. Port of Long Beach. Environmental Associate.

Name	Licenses/Registrations	Function	Years of Exp.	Education	Work Experience
Alan Ashimine	N/A	Compliance & Permitting	25	B.A., 2000, Environmental Analysis and Design, University of California, Irvine	Prospect Avenue Pavement Resurfacing and Streetscape, Hermosa Beach, CA. City of Hermosa Beach. CEQA Specialist. El Camino Real Bridge and Road Widening, San Diego, CA. City of San Diego Economic Development. Environmental Manager. Groundwater Wells Design and Installation, Downey, CA. City of Downey. Environmental Manager.
Kristen Bogue	N/A	Compliance & Permitting	20	BA, Environmental Analysis and Design, University of California, Irvine	Environmental Coordination and Planning, Pasadena, CA. City of Pasadena. Environmental Specialist. Studebaker and S.R. 22 Realignment, Long Beach, CA. City of Long Beach. Task Manager. Indian Street and Cardinal Avenue Bridge, Moreno Valley, CA. City of Moreno Valley. Environmental Specialist.
Jessica Ditto	N/A	Compliance & Permitting	12	B.A., 2005, Communications, University of California, Los Angeles	Orangewood Avenue Improvements, Anaheim, CA. City of Anaheim. Environmental Planner. I-605 and Katella Interchange Improvements, Los Alamitos, CA. OCTA. Environmental Associate. Amargosa Creek Recreational Trail, Lancaster, CA. City of Lancaster. Project Manager.
Zhe Chen	LEED Green Associate	Compliance & Permitting	10	M.B.A., 2023, Business Administration, University of California, Irvine M.S., 2015, Environmental Science and Engineering, Stanford University	Heritage Square South, Pasadena, CA. City of Pasadena. Technical Specialist. 8633 Wilshire Boulevard Categorical Exemption, Beverly Hills, CA. City of Beverly Hills. Technical Specialist.

Name	Licenses/Registrations	Function	Years of Exp.	Education	Work Experience
Daniel Cardoza	<p>CRAM for Riverine Wetlands-Certified Practitioner, CA, 2011</p> <p>Wetland Delineator Certification Program, CA, 2011</p> <p>Professional Wetland Scientist, CA, 2756</p>	Compliance & Permitting	16	<p>M.S., Environmental Planning, California State University Fullerton</p> <p>B.A., Environmental Science, California State University Long Beach</p>	<p>Broad Beach Restoration, Malibu, CA. Broad Beach Geological Hazard Abatement District. Environmental Specialist.</p> <p>OC-44 Pipeline Rehabilitation/Replacement Orange, CA. Mesa Water District. Environmental Associate.</p> <p>Permit and TSO Compliance Support for Metal Discharges. Statewide. Southern Edison. Environmental Associate.</p> <p>Newport Bay Watershed Microbial Source Investigation Assistance in bacteria TMDLs and Microbial Source Tracking Orange County, CA. OCPW. Environmental Planner.</p> <p>Comprehensive Human Waste Source Reduction Strategy Stakeholder Outreach, Orange County, CA. OCPW. Technical Specialist.</p> <p>Pollution Prevention Plan, Newport Bay, CA. OCPW. Technical Specialist.</p>
Vanessa Thulsiraj	Engineer-In-Training, CA, 2007, 129704	Studies and Reports	18	Ph.D., 2014, Civil Engineering, University of California, Los Angeles	<p>Island Pump Station Expansion, Orange County, CA. Santa Margarita Water District. Technical Specialist.</p> <p>On-Call Contract, Orange County, CA. Orange County Flood Control . Structural Engineer.</p> <p>Park Avenue over Grand Canal Bridge Replacement, Newport Beach, CA. City of Newport Beach. Structural Engineer.</p>
Sal Sheikh	Professional Engineer - Civil, CA, 1981, 32677	Structural Engineering	51	<p>M.S., 1972, Civil Engineering/ Structures, University of Michigan at Ann Arbor</p> <p>B.S., 1970, Civil Engineering, University of Karachi Pakistan</p>	<p>Marblehead Coastal Development, San Clemente, CA. Taylor Morrison. Civil Engineer. Structural Engineer.</p> <p>Cow Camp Road, Rancho Mission Viejo, CA. Rancho Mission Viejo, LLC. Civil Engineer. Structural Engineer.</p>
Ciprian Stelea	Professional Engineer - Civil, CA, 2008, 73379	Structural Engineering	22	M.S., 2006, Civil Engineering/ Structures, University of California, Irvine	

Name	Licenses/Registrations	Function	Years of Exp.	Education	Work Experience
JD Chintiaeff	Certified Coating Inspector, 13561 NACE Certified Cathodic Protection Tester, 5889 Certified Senior Corrosion Technologist, 2015, 5889	Structural Engineering	36	Certificate, Corrosion Technology, NACE International	Corrosion Services, Laguna Beach County Water District. Corrosion Survey Technician. Corrosion Services, El Toro Water District. Corrosion Survey Technician. On-Call Engineering and Construction Management, SCV Water. Corrosion Survey Technician.
Marek Przywara	Professional Engineer - Electrical, CA, 1994, 14537	Electrical, Instrumental & Controls	41	M.S., 1974, Electrical Engineering, AGH University of Science & Technology	Well Automation and Rehabilitation, Costa Mesa, CA. Mesa Water District. QA/QC. Sterling Pumping Station and Reservoir, Riverside County, CA. Western Municipal Water. QA/QC. Grant Street Booster Electrical Replacement, Hemet, CA. Eastern Municipal Water District. Project Manager.
Megan Czach, PE	FHWA-NHI - National Certified Tunnel Inspector, 2024 Professional Engineer - Electrical, CA. 2024, 25132	Electrical, Instrumental & Controls	26	B.S., 2000, Electrical Engineering, Illinois Institute of Technology	Amtrak Station, Oakley CA. Amtrak. Electrical Engineer. Pioneer Trail Pedestrian Improvements, Lake Tahoe, CA. City of South Lake Tahoe. Electrical Engineer. Amtrak Nationwide A/E Services IDIQ, Nationwide. Amtrak. Electrical Engineer.
Kieler Smith	Professional Engineer - Civil, CA, 2014, 82523 Associate Design-Build Professional, 2022, AS-3656 Qualified SWPPP Developer, CA, 2014, 82523 Certified Construction Manager, 2019, 6273	Construction Support	18	B.S., 2007, Civil Engineering, Loyola Marymount University	Culver Boulevard Realignment and Stormwater Treatment, Culver City, CA. City of Culver City. Construction Manager. Linda Vista Pump Station Improvements Phase 2, Anaheim, CA. City of Anaheim. Construction Manager. Fairview Bridge Water Pipeline. Mesa Water District. Project Manager and Construction Inspector.

Name	Licenses/Registrations	Function	Years of Exp.	Education	Work Experience
Jeremy Franzini	Landscape Architect, CA, 2001, 4514	Landscape Architecture	29	M.L.A., 1996, Landscape Architecture, Texas A&M University B.S., 1993, Environmental Studies, University of California, Santa Barbara	Studebaker and S.R. 22 Realignment, Long Beach, CA. City of Long Beach. Landscape Architect. Studebaker Road Complete Streets, Long Beach, CA. City of Long Beach. Landscape Architect. Bonsall Community Park, Bonsall, CA. San Diego County. Project Manager.
Alaa Chaabani	Landscape Architect, CA, 2003, 4732	Landscape Architecture	33	BS, Landscape Architecture, California State Polytechnic University, Pomona	Tustin Legacy Gateway Monument, Tustin, CA. City of Tustin. Landscape Architect. Native and Drought Tolerant Landscape Design, Santa Ana, CA. City of Santa Ana. Landscape Architect. Bay Bridge Pump Station and Force Mains Rehabilitation Study, Orange County, CA. OCSD. Landscape Architect.
Dino Serafini	Professional Engineer - Civil, CA, 1993, 51164	Grant Applications	29	M.A., 1978, Environmental Policy and Management, University of California, Riverside B.S., 1976, Resource Economics, University of California, Riverside	Community Benefit Agreements, San Diego, CA. San Diego County. Project Manager. Community Engagement and Risk Communications (CERC), Nationwide. FEMA. Project Manager. Community Planning and Environmental Services, Stockton, CA. City of Stockton. Peer Reviewer.
Jonai Johnson	N/A	Grant Applications	9	B.A., 2013, English Literature, Chapman University	Active Transportation Program Valley Boulevard Complete Streets, El Monte, CA. City of El Monte. Grant Lead. ATP Cycle 7 Application for Valley Boulevard Complete Streets, City of El Monte. Grant Lead. LTCAP Application for Climate Resiliency for La Paz Road, Laguna Niguel, CA. City of Laguna Niguel. Grant Writer.

Name	Licenses/Registrations	Function	Years of Exp.	Education	Work Experience
Scott Jenkins	N/A	Computational Fluid Dynamics Modeling	45	Ph.D., 1980, Oceanography, University of San Diego B.S., 1972, Yale Chemistry, Yale University	Desalination Plant, Huntington Beach, CA. Poseidon Resources. Scientist. Desalination Plant, Carlsbad, CA. Poseidon Resources. Scientist. Assessment of Discharges of Contaminated Sediments, San Diego Bay, CA. City of San Diego Economic Development. Technical Manager.
Richard Beck	Certified Ecological Restoration Practitioner Certified Environmental Professional EPA Watershed Management Academy Certified Professional in Erosion and Sediment Control, CA Wetland Delineator Certification Program Professional Wetland Scientist, 2011, 2160 CRAM for Riverine Wetlands-Certified Practitioner	Quality Control Support	25	B.A., 2000, Environmental Studies, University of California, Santa Cruz Certificate, 2010, Ecological Restoration, Saddleback College, CA	Stormwater Management Plan State Parks, Statewide, CA. California Department of Parks and Recreation. Environmental Manager. Moosa Canyon Erosion Control, San Diego, CA. San Diego County Water Authority. Task Manager CEQA. OC-44 Pipeline Rehabilitation/Replacement, Orange, CA. Mesa Water District. Task Manager for regulatory permitting.
Boudreau Pipeline Juan Navarrete	OSHA 30 Training National Trench Safety Traffic Control Certification L.D.I.	Utility Potholing	6	AA, University of California, Santa Barbara Water Transportation and Technology Certification	33rd Street Pipeline Replacement, Signal Hill, CA., City of Signal Hill. Utility Potholing Operator. Humboldt Sewer Lift Station Replacement, Huntington Beach, CA. City of Huntington Beach. Utility Potholing Operator. Quail Valley Septic to Sewer, Perris, CA. Eastern Municipal Water District. Utility Potholing Operator.
LaBelle Marvin Steve Marvin	Professional Civil Engineer #30659 Professional Quality Engineer, #5463	Pavement Investigation/ Rehabilitation/ Design	50	BSCE - California State University, Long Beach	Camino Capistrano and Avenida Aeropuerto, San Juan Capistrano, CA. City of San Juan Capistrano. Principal Engineer. Camino De Los Mares, San Clemente, CA. City of San Clemente. Principal Engineer. MacArthur Boulevard and University Drive, Newport, CA. City of Newport Beach. Principal Engineer.

EXHIBIT "B"

Payment Schedule (Hourly Payment)

A. Hourly Rate

CONSULTANT'S fees for such services shall be based upon the following hourly rate and cost schedule:

SEE ATTACHED EXHIBIT B

B. Travel Charges for time during travel are not reimbursable.

C. Billing

1. All billing shall be done monthly in fifteen (15) minute increments and matched to an appropriate breakdown of the time that was taken to perform that work and who performed it.
2. Each month's bill should include a total to date. That total should provide, at a glance, the total fees and costs incurred to date for the project.
3. A copy of memoranda, letters, reports, calculations and other documentation prepared by CONSULTANT may be required to be submitted to CITY to demonstrate progress toward completion of tasks. In the event CITY rejects or has comments on any such product, CITY shall identify specific requirements for satisfactory completion.
4. CONSULTANT shall submit to CITY an invoice for each monthly payment due. Such invoice shall:
 - A) Reference this Agreement;
 - B) Describe the services performed;
 - C) Show the total amount of the payment due;
 - D) Include a certification by a principal member of CONSULTANT's firm that the work has been performed in accordance with the provisions of this Agreement; and
 - E) For all payments include an estimate of the percentage of work completed.

Upon submission of any such invoice, if CITY is satisfied that CONSULTANT is making satisfactory progress toward completion of tasks in accordance with this Agreement, CITY shall approve the invoice, in which event payment shall be made within thirty (30) days of receipt of the invoice by CITY. Such approval shall not be unreasonably withheld. If CITY does not approve an invoice, CITY shall notify CONSULTANT in writing of the reasons for non-approval and the schedule of performance set forth in **Exhibit "A"** may at the option of CITY be suspended until the parties agree that past performance by CONSULTANT is in, or has been brought into compliance, or until this Agreement has expired or is terminated as provided herein.

5. Any billings for extra work or additional services authorized in advance and in writing by CITY shall be invoiced separately to CITY. Such invoice shall contain all of the information required above, and in addition shall list the hours expended and hourly rate charged for such time. Such invoices shall be approved by CITY if the work performed is in accordance with the extra work or additional services requested, and if CITY is satisfied that the statement of hours worked and costs incurred is accurate. Such approval shall not be unreasonably withheld. Any dispute between the parties concerning payment of such an invoice shall be treated as separate and apart from the ongoing performance of the remainder of this Agreement.

EXHIBIT B



CITY OF HUNTINGTON BEACH ON-CALL CIVIL ENGINEERING PROFESSIONAL CONSULTING SERVICES HOURLY RATE SCHEDULE

LABOR CLASSIFICATION	Hourly Rate
OFFICE PERSONNEL	
Senior Principal / Senior Program Manager	\$ 335
Principal / Program Manager	\$ 320
Senior Technical / QAQC Manager	\$ 310
Senior Project / Structural / Electrical Manager	\$ 305
Senior Structural Engineer	\$ 295
Senior Electrical Engineer	\$ 275
Structural Engineer	\$ 270
Project Manager	\$ 260
Technical Manager	\$ 250
Senior Engineer / Planner / GIT Analyst / Landscape Architect / Architect	\$ 225
Project Engineer / Architect/Planner / Senior Technical Specialist	\$ 200
Senior Technical Specialist/CAD Designer	\$ 200
Staff Architect / GIT Analyst	\$ 190
Design Engineer / Environmental Specialist	\$ 185
Technical Specialist / Landscape Architect / Electrical Engineer	\$ 180
Assistant Engineer / CAD Designer / Planner	\$ 160
Project Coordinator	\$ 155
Environmental Analyst / Staff Planner / Graphic Artist	\$ 145
Associate Engineer / Assistant Planner / Design Technician / Landscape Designer	\$ 140
Permit Processor	\$ 125
Engineering / Planning Aide	\$ 120
Office Support / Clerical	\$ 110
Intern	\$ 80
SURVEY PERSONNEL	
2-Person Survey Crew	\$ 335
1-Person Survey Crew	\$ 220
Survey Principal	\$ 330
Survey Manager	\$ 285
Licensed Surveyor	\$ 225
Field Supervisor	\$ 200
CONSTRUCTION MANAGEMENT PERSONNEL	
Senior Construction Manager	\$ 310
Construction Manager	\$ 280
Resident Engineer	\$ 205
Construction Inspector	\$ 200
Field Office Engineer	\$ 175
Construction Coordinator	\$ 135
Contract Support	\$ 120

[1] Hourly rates for all labor classifications will be escalated up to four percent (4%) effective January 1, 2026, and annually thereafter.

[2] Blueprinting, reproduction, messenger service and other direct expenses will be charged as an additional cost plus 5%. A Sub-consultant Management Fee of five percent (5%) will be added to the direct cost of all sub-consultant services to provide for the cost of administration, sub-consultant consultation and insurance. Vehicle mileage will be charged as an additional cost at the IRS-approved rate.

[3] For field and construction management personnel, overtime rates at 1.5 times the regular rate will be charged for work performed outside normal construction hours and all day on Saturdays, and 2.0 times the regular rate in excess of 12 hours per day and on Sundays.

LaBelle Marvin, Inc.

PROFESSIONAL PAVEMENT ENGINEERING
 2700 South Grand Avenue
 Santa Ana, CA 92705
 PH 714-546-3468

2025 SCHEDULE OF FEES

Effective: January 1, 2025.

HUNTINGTON BEACH ON-CALL SERVICES

LABELLE MARVIN, INC. - 2025 SCHEDULE OF FEES				
A. PROFESSIONAL ENGINEERING SERVICES				
1. ENGINEERING STAFF				
Key Personnel	Std. Rate	Overtime Rate	Prevailing Wage Rates	Prevailing Wage (OT)
Principal Engineer	\$275.00/hr			
Project Engineer	\$205.00/hr			
Project Manager	\$205.00/hr			
Staff Engineer	\$185.00/hr			
Report Preparation / Office Support	\$100.00/hr			
2. EXPERT WITNESS				
Expert Witness	\$600.00/hr			
Deposition / Testimony	\$750.00/hr			
3. SPECIALTY				
FWD Data Analyst	\$205.00/hr			
Ground Penetrating Radar Specialist	\$205.00/hr			
Senior AutoCAD Designer	\$205.00/hr			
Staff AutoCAD Technician	\$185.00/hr			
4. TECHNICIAN STAFF				
Field Technician	\$110.00/hr	\$165.00/hr	\$155.00/hr	\$205.00/hr
Lab Technicians	\$110.00/hr	\$165.00/hr	\$155.00/hr	\$205.00/hr
Nuclear Gauge Technician	\$120.00/hr	\$180.00/hr	\$170.00/hr	\$225.00/hr
B. TESTING EQUIPMENT				
Task	Std. Rate	Special Rates	Prevailing Wage Rates	Prevailing Wage (OT)
5. TESTING EQUIPMENT				
FWD Testing Equipment	\$3,950.00/day	\$2,950.00/Half Day		
Ground Penetrating Radar Equipment	\$3,950.00/day	\$2,950.00/Half Day		
Pavement Coring Vehicle Equipment	\$100.00/hr			
Nuclear Gauge Surcharge	\$25.00/hr			
6. EQUIPMENT SURCHARGES				
AC Coring (Disposables)	\$15.00/inch			
PCC Coring (Disposables)	\$20.00/inch			
Core Trimming - Per Cut	\$50.00/cut			
7. TRAFFIC CONTROL				
Traffic Control - MUTCD - Lane Closures	\$2,750.00/day		\$3,100.00/day	
Traffic Control - MUTCD - Shadow Vehicle	\$2,050.00/day		\$2,300.00/day	
High Speed - Highway Traffic Control	By Quote			

C. LABORATORY TESTING				
	Std. Rate		ASTM	CALTRANS
8. SOILS, AGGREGATES AND AGGREGATE BASE				
Sieve Analysis, Coarse	\$105.00		C136	202-C
Sieve Analysis, Fine (wash)	\$125.00		C136	202-C
Specific Gravity, Bulk SSD, Coarse	\$115.00		C127	206
Specific Gravity, Fine	\$255.00		128	207
Absorption, Coarse	\$105.00		C127	206
Absorption, Fine	\$150.00		C128	207
Sand Equivalent (Ave. 3)	\$125.00		D2419	217
Durability Factor, Coarse or Fine	\$180.00		D3744	229
Cleanliness Value	\$180.00			227
Los Angeles Rattler	\$370.00		C131	211
Unit Weight	\$115.00		C29	212
Plasticity Index	\$205.00		D424	204
Maximum Density and Optimum Moisture	\$235.00		D1557	216
R-Value	\$280.00		D2844	301
R-Value (Lime Treated)	\$370.00			
R-Value (Supplier)	\$240.00		D2844	301
California Bearing Ratio (CBR)	\$555.00		D1883	
California Bearing Ratio (CBR) - 1 Point	\$255.00			
California Bearing Ratio (CBR) - Lime Treated	\$665.00			
pH - Per Determination	\$135.00		C977	
Retained Strength	\$500.00			
pH - Eades & Grimm	\$505.00			
Unconfined Compression	\$100.00			
Muffle Oven/Organic Content	\$170.00			
Crushed Particle	\$155.00			205
Flat & Elongated Particle	\$245.00		D4791	
Angularity	\$215.00			
Moisture Content	\$50.00		D2216	226
Subgrade Density (Drive Tube)	\$115.00		D2937	

C. LABORATORY TESTING (Continued)				
	Std. Rate		ASTM	CALTRANS
9. SOILS, AGGREGATES AND AGGREGATE BASE				
Emulsion, Cement or Lime Stabil. Inv.	By Quote			
Investigation, Design, Spec. and QC	By Quote			
10. PORTLAND CEMENT CONCRETE				
CTS / LTS Design Study	By Quote			
Mix Design Reviews	By Quote			
Slump Test (in Field)	By Quote			
11. ASPHALT CONCRETE				
Asphalt Concrete Mix Design, Marshall Stability	By Quote			
Hveem Stabilometer Method	By Quote			
Gyratory Maximum Density	\$235.00			
Stability Tests - Hveem (s-Value)	\$305.00		D1560_D1561	304 366
Stability Tests - Marshal Stability & Flow	\$335.00			
Stability Tests - Moisture Vapor Susceptility	\$335.00			307
Stability Tests - Swell	\$215.00			305
Stability Tests - Combined Marshall and Retained Stabili	\$445.00			
Maximum Lab. Density - Marshall or Hveem	\$235.00			
Maximum Lab. Density - (Rice Gravity) Max. Theoretical	\$150.00		D2041	
Tensile Strength Ratio (TSR)	\$830.00			
Tensile Strength Ratio (TSR) - Freeze/Thaw	\$885.00			
Tensile Strength Ratio (TSR - CT 371)	\$1,955.00			
Binder Content - Ignition Oven	\$275.00			382
pH - on Emulsion	\$135.00			
Soundness	\$320.00		C88	
Extraction, % Asphalt (Reflux)	\$275.00		D2172	
Solvent Charge (Reflux)	\$100.00		for D2172*	
% Rubber	\$115.00			
Extraction, % Asphalt Recovery (Abson Method)	\$405.00		D2172_D1856	
Gradation of Extracted Aggregate	\$125.00		C136	202
Density and Thickness on Core Samples	\$70.00		D1188_D2726_D3549	308
Stripping (pre-mixed sample)	\$145.00		D1664	302
Permeability, VDOT	\$255.00			
Cohesion	\$270.00			
Compatibility	\$130.00			
Drain Down	\$335.00			

C. LABORATORY TESTING (Continued)				
	Std. Rate		ASTM	CALTRANS
12. ASPHALT CEMENT				
Viscosity SSF @ 77F° (25C°), sec.	\$200.00		D244	
Viscosity SSF @ 122F° (50C°)	\$225.00			
Settlement Five or Seven Day, %	\$490.00		D244	
Demulsibility	\$150.00		D244	
Particle Charge	\$180.00		D244	343
Sieve Test, %	\$130.00		D244	
Cement Mixing Test	\$195.00		D244	
Distillation and Percent Oil Determination	\$370.00		D402 D244	
Residue by Evaporation Cook-Off or CA Method 330	\$195.00			331
Wet Track Abrasion Test (WTAT)	\$140.00		D3910	
Storage Stability, One Day	\$490.00		D244	
Float Test	\$140.00		D139 D244	
Cone Penetration	\$140.00		D243 D5	
Solids Content by Muffle Oven Burn-Off AASHTO T 267	\$170.00			
Resiliency	\$125.00			
Torsional Recovery	\$490.00			
Elastic Recovery	\$115.00			
Pavement Seal - Non Volatile Components	\$125.00			

D. MISC.				
13. MOBILIZATION COSTS				
Per Diem	By Quote			
Mileage	\$0.75/mi			
Mobilization	\$255.00/hr			

REGULAR HOURLY CHARGES

First eight hours between 7:00 a.m. and 5:00 p.m. Monday through Friday.

ESCALATION FEE

A 3% Escalation Fee for Each Year thereafter for the Duration of the Contract.

