

PROFESSIONAL SERVICES CONTRACT BETWEEN  
THE CITY OF HUNTINGTON BEACH AND  
PROACTIVE ENGINEERING CONSULTANTS, 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 PROACTIVE ENGINEERING CONSULTANTS, INC., 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 Remi Candaele 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:

Proactive Engineering Consultants, Inc.  
Attn: Remi Candaele  
27051 Towne Center Drive, Suite 270  
Foothill Ranch, CA 92610

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,  
PROACTIVE ENGINEERING  
CONSULTANTS, INC.

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

By: 

TOM BRAUN

print name

ITS: (circle one) Chairman President Vice President

AND

By: 

Mark S. Anderson

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



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CONSULTANT,  
PROACTIVE ENGINEERING  
CONSULTANTS, INC.

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

\_\_\_\_\_  
Mayor

By: \_\_\_\_\_

\_\_\_\_\_  
City Clerk

print name

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

INITIATED AND APPROVED:

**AND**

By: \_\_\_\_\_

\_\_\_\_\_  
Director of Public Works

print name

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

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

# Proactive Engineering Consultants, Inc.

## On-Call Civil Engineering Professional Consulting Services



March 13, 2025

Submitted to



Submitted by



**PROACTIVE**  
ENGINEERING CONSULTANTS



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### Infrastructure Report Card – OCC Tour (January 2024)



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## 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="radio"/> Yes / No
• General Civil Engineering	<input checked="" type="radio"/> Yes / No
• Ocean Engineering	Yes / <input checked="" type="radio"/> No
• Environmental/Water Quality	<input checked="" type="radio"/> Yes / No



**REQUEST FOR PROPOSAL**  
**VENDOR APPLICATION FORM**

TYPE OF APPLICANT: ☒ NEW ☐ CURRENT VENDOR

Legal Contractual Name of Corporation: Proactive Engineering Consultants, Inc.

Contact Person for Agreement: Remi Candaele

Corporate Mailing Address: 27051 Towne Centre Drive, Suite 270

City, State and Zip Code: Foothill Ranch, CA 92610

E-Mail Address: rcandaele@q3consulting.net

Phone: 949-259-6441 Fax: 951-280-0279

Contact Person for Proposals: Remi Candaele

Title: Director E-Mail Address: rcandaele@q3consulting.net

Business Telephone: 949-259-6441 Business Fax: 951-280-0279

Year Business was Established: 2006

Is your business: (check one)

☐ NON PROFIT CORPORATION ☒ FOR PROFIT CORPORATION

Is your business: (check one)

<input checked="" type="checkbox"/> CORPORATION	<input type="checkbox"/> LIMITED LIABILITY PARTNERSHIP
<input type="checkbox"/> INDIVIDUAL	<input type="checkbox"/> SOLE PROPRIETORSHIP
<input type="checkbox"/> PARTNERSHIP	<input type="checkbox"/> 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 Braun	President	951.280.3300
John McCarthy	Secretary	949.259.6730
Mark Anderson	CFO	949.900.6212

Federal Tax Identification Number: 20-5345716

City of Huntington Beach Business License Number: A274641  
(If none, you must obtain a Huntington Beach Business License upon award of contract.)

City of Huntington Beach Business License Expiration Date: 7/31/2025



## Vendor Application Form and Cover Letter

March 13, 2025

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

### PM Contact Information

Remi Candaele, PE  
27051 Towne Centre Drive, #270  
Foothill Ranch, CA 92610  
949-259-6441  
rcandaele@q3consulting.net

Re: **Request for Proposals – On-Call Civil Engineering Professional Consulting Services**

### Categories:

- ✓ Water/Sewer/Storm Water Engineering
- ✓ General Civil Engineering
- ✓ Environmental/Water Quality

Dear Tom and Members of the Selection Committee:

Q3 Consulting, a dba of Proactive Engineering Consultants, Inc. (PEC), is pleased to submit our statement of qualifications to support the City of Huntington Beach (City) with On-Call Civil Engineering Professional Consulting Services. PEC is a **California S-Corporation, State Certified Small Business and Orange County Local Small Business** that focuses on providing comprehensive services for public works, roadway, wet and dry utilities, drainage, and municipal projects.

Our PEC team has a proven track record in providing **Public Works** related services in **Orange County** and the Greater Los Angeles Area, notably for:

City of Aliso Viejo	City of Loma Linda	California Department of Transportation
City of Anaheim	City of Mission Viejo	County of Orange
City of Buena Park	City of Moreno Valley	County of Riverside
City of Chino	City of Newport Beach	Irvine Ranch Water District
City of Costa Mesa	City of Orange	Long Beach City College
City of Diamond Bar	Coast Colleges	Orange County Water District
City of Fullerton	City of Perris	County of Orange
City of Garden Grove	City of Redlands	Santa Margarita Water District
City of Hermosa Beach	City of Riverside	Santa Margarita Water District
City of Huntington Beach	City of Santa Ana	Trabuco Canyon Water District
City of Irvine	City of San Clemente	University of California, Irvine
City of La Habra	City of San Juan Capistrano	Vanguard University, Costa Mesa
City of Lake Elsinore	City of Tustin	And many more...

Our Project Manager will be Remi Candaele, PE, MS, QSD, QISP, who brings demonstrated success with the planning, design, and construction of public works engineering assignments. Our mutual success will also rely on in-house experience of other professionals showcased within the staff qualifications.

**Familiarity with City Challenges** – PEC helped prepare the 2025 Citywide Infrastructure Report Card for the City, which evaluated all aspects of infrastructure based on capacity, condition, operation and maintenance, funding, resiliency, and innovation. The process required extensive collaboration across all divisions of the Public Works Department.



A few challenges include:

- |                                    |  |
|------------------------------------|--|
| ✓ Outdated vertical infrastructure | ✓ Aging lift stations                      |
| ✓ Deteriorated public alleyways    | ✓ Sidewalk and accessibility discrepancies |
| ✓ Aging stormwater pump stations   | ✓ Bulkheads at Huntington Harbor           |

**Familiarity with Local Infrastructure** – PEC recently secured approval from the California Coastal Commission for the Magnolia Tank Farm project. PEC also completed the drainage studies for the repairs of the Huntington Beach and Talbert Channels, and has been supporting the Diocese of Orange and Boeing Industries with their improvements in Huntington Beach..

**Successful Grant Applications** – PEC recently helped secured grant funding for the implementation of public works infrastructure projects in Southern California from State (Caltrans ATP, Metropolitan, Prop 1, etc.) and local (OCTA Measure M2, LA County Measure CC, LA County Measure W, etc.) funding sources. Our team intends to apply its lessons learned and help seek upcoming grant opportunities.

**Citywide Trash Compliance Program** - Our team has been intimately involved in the development of the Citywide compliance strategy to meet the Trash Provisions. Many lessons have been learned from the unique conditions in Huntington Beach. PEC has identified regional opportunities that are cost-effective and will work with the City to implement them. PEC has identified that the **retrofit of the pump station forebays** may be the most suitable alternative.

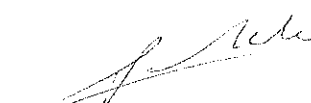
**Comprehensive Team** - Q3 has teamed with **N2W** (water/wastewater engineering), **Rende Consulting Group** (structural design) and **WSP** (NPDES inspections) to provide the City with a comprehensive, full-service, team to tackle the unique components of the assignments.


We appreciate the opportunity to present our qualifications. **We are ready to deliver immediately!**

This proposal is signed by John McCarthy, Secretary, who is authorized to contractually bind Proactive. We have read, understood, and agreed to all statements in this request for proposal and acknowledge receipt of all addendums/amendments as well as to the terms, conditions, and attachments referenced. The proposed price is valid for a period of 180 days.

Please feel free to contact me should you require any additional information or further insights into our approach. Thank you for considering us as your ongoing partner to create a lasting positive impact on the beach community.

Respectfully submitted,

  
Remi Candaele, P.E., M.S., Q.S.D., Q.I.S.P.  
Project Manager

  
John McCarthy, P.E., C.F.M.  
Principal/Vice-President (Officer)



## Background and Project Summary Section

### Consultant's Background

#### **PROACTIVE**

Q3 Consulting (Q3) is a dba of Proactive Engineering Consultants Inc. (PEC) provides comprehensive engineering and surveying services for public works, roadway, wet and dry utilities, drainage, and municipal projects. Public Works services are at the core of our work.

PEC was **founded in 2006** and has a **staff of 100** engineers, surveyors, utility coordinators, construction managers, and administrative personnel. PEC is **California S-Corporation** consulting firm based in Foothill Ranch and is **certified as a California Certified Small Business (DGS #2009320)**.

#### **Lead Office and Program Manager**

Remi Candaele, PE, MS, QSD, QISP  
27051 Towne Centre Drive  
Suite 270  
Foothill Ranch, CA 92610  
Staff: 49 Employees

#### **Support Offices**

Staff: 51 Employees

PEC has a proven track record in providing **Public Works** related services in **Orange County** and the Greater Los Angeles Area encompassing public works, accessibility, roadway, utilities, and drainage projects including, but not limited to the following:

City of Aliso Viejo	City of Loma Linda	California Department of Transportation
City of Anaheim	City of Mission Viejo	County of Orange
City of Buena Park	City of Moreno Valley	County of Riverside
City of Chino	City of Newport Beach	Irvine Ranch Water District
City of Costa Mesa	City of Orange	Long Beach City College
City of Diamond Bar	Coast Colleges	Orange County Water District
City of Fullerton	City of Perris	County of Orange
City of Garden Grove	City of Redlands	Santa Margarita Water District
City of Hermosa Beach	City of Riverside	Santa Margarita Water District
City of Huntington Beach	City of Santa Ana	Trabuco Canyon Water District
City of Irvine	City of San Clemente	University of California, Irvine
City of La Habra	City of San Juan Capistrano	Vanguard University, Costa Mesa
City of Lake Elsinore	City of Tustin	And many more...

**PEC's team of professionals are local to Orange County** and available to support the City's Mission. We employ a wealth of experience and technological advantages in providing public infrastructure improvements and excel in providing comprehensive and innovative design solutions to infrastructure challenges. A partial list of services that we typically provide to our clientele is as follows:

<b>Pavement Rehabilitation</b> <i>(sealing, overlays, reconstruction, etc.)</i>	<b>ADA Compliance and Accessibility Improvements</b> <i>(ramps, sidewalks, trails, etc.)</i>
<b>Storm Drainage Systems and Facilities</b> <i>(collection, conveyance, diversion, storage, reuse, etc.)</i>	<b>Development Plan Checking and Review</b>
<b>Arterial and Local Street Improvements</b> <i>(new construction, realignment, widening, etc.)</i>	<b>Survey/GIS/Mapping/Right-of-Way</b>
<b>Sewer, Domestic and Recycled Water Systems</b> <i>(new, replacement, realignment, and relocation)</i>	<b>Site Inspection and Certification</b> <i>(rough / precise grading, building pad and forms, etc.)</i>
<b>Traffic Signing, Pavement Striping &amp; Delineation</b>	<b>Master and Site Planning, Analysis and Development</b>
<b>Hydrology and Hydraulics / Storm Drain Design</b>	<b>Water Quality Compliance and Documentation</b>

Q3 has assembled a team of highly experienced professionals to provide the City with a comprehensive, full-service, team to tackle the unique components of this project. The team includes long-time partners **N2W Engineering (Sewer/Water)**, **Rende Consulting Group (Structural)**, and **WSP (Water Quality Inspections)**. Q3, N2W Engineering, Rende, and WSP, along with the experts assigned to this project have worked together on the planning, design, and construction of public works infrastructure in Southern California for over 2 decades.



## Project Summary

The City needs a qualified full-service engineering, surveying, and environmental firm to provide professional design services to support City Staff with the implementation of the Capital Improvement Program. We understand the complexity of the regulatory framework, the physiographic setting of the City, and demonstrate extensive experience in each aspect of general civil, water resources, and water quality.

**Accessibility** – The City has completed an ADA Transition Plan, which identifies accessibility gaps and discrepancies. Our team is well versed in evaluating, surveying, designing, and field verifying driveway approaches, curb ramps, ramps, parking stalls, and sidewalks.

**Active Transportation** – The City has been gathering citizen's feedback regarding the beach path, bicycle network, and the pedestrian network. Speed control, user space separations, protected bike lanes are part of the options implemented by our team in downtown San Juan Capistrano, Hermosa Beach, Lake Elsinore to name a few.

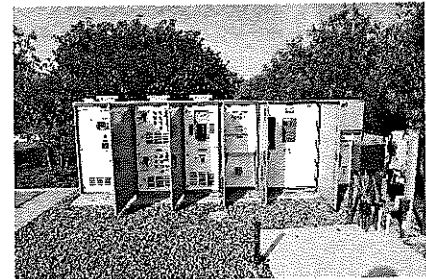


**Alleyways** – Pavement rehabilitation of over 34 linear miles of alleyways is necessary to address extensive signs of pavement failure. Our team intends to design pavement rehabilitation to limit utility conflicts, provide positive drainage, and mitigate impacts on local residents.

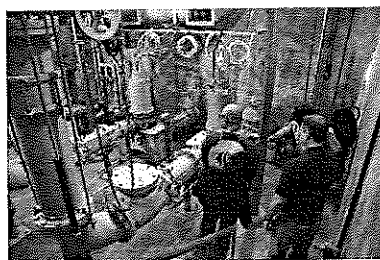
**Bridges** – Our team will help chase HBP federal grants and provide structural analysis, load rating evaluations, material rehabilitation strategies, and construction oversight to ensure compliance with Caltrans standards and city requirements.

**Water Engineering** – Our team focuses on hydraulic analysis, booster pumps and bag filters; pipelines and valving, appurtenances and interconnections with existing systems, civil site work, structural components, electrical and instrumentation systems, and SCADA integration services.

- ✓ Potable Water Wells – To replace the aging wells, the City needs to consider wellhead treatment. Our team's expertise reside in wellhead treatment notably for Perchlorate and PFAS. Our team focuses on simplicity and efficiency, setting monitoring and alarm criteria for drinking water standards, UF, UV, chlorine, and chloramines.



**Wastewater Engineering** – The City has been progressively replacing the aging lift stations and its infrastructure.



- ✓ Sewer Line Improvements/Replacement - Verified clay pipe (VCP) is commonly used because of its resilience to urban loading conditions and is familiar to the City's sewer and water maintenance crew. Based on the results from CCTV inspections, sewer rehabilitation can be achieved using trenchless technologies, if the hydraulic capacities remain sufficient.

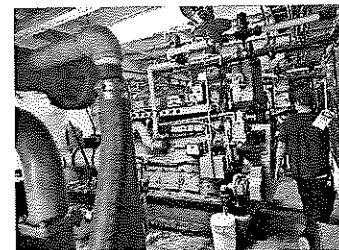
- ✓ Sewer Lift Stations/Force Main - Our team specializes in hydraulic analysis, pump selection, surge control, and SCADA integration to optimize system performance and longevity. With a strong track record in civil infrastructure projects, we ensure cost-effective, sustainable, and

regulatory-compliant designs tailored to each project's needs.

- ✓ Wastewater Master Plan – Our team recently completed the updates of the Master Plans from Inland Empire Utilities Agency, Olivenhain Municipal Water District, Temescal Valley Water District, and the Cities of Redondo, Cerritos, San Diego.

**Stormwater Engineering** – Our team is fully familiar with the Master Plan and the construction of flood control facilities in the City.

- ✓ Stormwater Lift Stations – To upgrade the Our team has been intimately involved in the design of large flood control/stormwater pump stations for the Cities of Chino and Monterey Park. Additional constraints are





set forth by AQMD, which limits to operation of diesel engines.  
Forebays and trash racks are in need of repair.

- ✓ 1D/2D rain-on-grid hydraulic analyses – Our team expanded upon the Master Plan of Drainage by building comprehensive models to support the design of the Huntington Beach and Talbert Channel repairs. In addition, our team developed a citywide model that evaluates the impacts of Climate Change and Sea Level Rise, which was reviewed and approved by California Coastal Commission in support of the Magnolia Tank Farm



**Grant Applications** - Federal (HBP), Metropolitan Water District, State Grant (Prop 1, Prop 84, etc.), and local OCTA Measure M2 funding are tied to local match requirements that are defined during the application process. The grant application is generally prepared based upon preliminary engineering schematics, a general understanding of the site conditions, and numeric performance goals. An increase in the final construction cost estimate may prove challenging. We highly recommend that preliminary engineering cost estimates capture representative earthwork quantity takeoffs, utility conflicts and relocation/replacement, construction cost escalation, and other costly items.

**Surveying** - In-house surveying services boosts our ability to deliver accurate surveying data which provides the site information needed to execute different types of projects. Our surveyors and mapping staff have extensive knowledge and skill in all aspects of survey data collection, compilation, and analysis of survey data. This includes superior experience in boundary analysis, Geographic Data Collection for Geographic Information Systems (GIS), as well as the preparation of numerous types of mapping and legal documents.

<b>Aerial Mapping</b>	<b>Environmental Surveys</b>
<b>ALTA/ACSM Surveys</b>	<b>FEMA Elevation Certificates</b>
<b>As-Built Surveys</b>	<b>GPS/GIS Surveys</b>
<b>Boundary Surveys</b>	<b>Monitoring Well Surveys</b>
<b>Condominium Mapping</b>	<b>Parcel, Tract &amp; Final Maps</b>
<b>Construction Staking</b>	<b>Quantity Surveys/Earthwork</b>
<b>Control Surveys</b>	<b>Record of Surveys</b>
<b>Drone Aerial Surveys</b>	<b>Right-of-Way Surveys &amp; Mapping</b>
<b>3-D Scanning</b>	<b>Subdivision Mapping &amp; Planning</b>
<b>Easement / Legal Descriptions</b>	<b>Topographic Surveys &amp; Design Surveys</b>
<b>Entitlements</b>	<b>Utility Research &amp; Utility As-Built</b>

## Methodology Section

The PEC team has the project experience and expertise to successfully support the implementation of the City's Capital Improvement Program.

### Management Work Plan

Q3/PEC team members have a depth of experience in managing On-Call contracts that require exceptional communication. Our Program Manager, Remi Candaele, has a proven record of successfully completing regional and municipal projects on an as-needed basis for numerous clients throughout southern California. The basic components of our management work plan are as follows:

#### Project Scoping and Understanding of Objectives

Prior to initiating our efforts, a thorough understanding of the City's specific goals, objectives and critical issues is essential in order to obtain the successful completion and timely approval of projects.

A critical key element to ensuring that an effective project schedule can be developed and maintained,

is preparing a comprehensive scope of work that clearly identifies the various project tasks and the deliverables expected from those tasks. Development of such a comprehensive scope of work minimizes the chances of miscommunications or misdirection between all Project Team members.

#### Project Management and Control

Our experience has allowed us to establish a project management/delivery plan that can be organized



and executed efficiently, ensuring smooth operational control throughout the project. The Task Manager will be responsible for monthly project reporting, scheduling, organization of meetings and preparation of meeting minutes, and all routine project coordination. As an integral part of the overall program management, John will be responsible for overseeing the implementation, tracking, and maintenance of the project scope and costs, schedule, and QA/QC for each task order.

### Scope/Cost and Schedule Controls

The Task Manager will employ the Work Breakdown Structure (WBS) to control contract costs. Each task and sub-task in the WBS will have its own budget. All tasks will be included in the progress reports, which will be the basis for invoicing. Job progress is monitored with establishment and monitoring of milestone dates, and continually updating the schedule throughout project and briefing the City on monthly basis, at a minimum.

### Critical Issues



Every project will involve issues that require discussion and agreement between the affected parties. PEC works to foster a professional team relationship between all members of the Project Team and the City. We strive to be technically accurate, objective and creative in developing consensus on project issues. The early identification and resolution of critical issues is imperative to keep a project on track and on schedule. Careful and timely documentation of

decisions reached greatly helps in keeping a project moving forward.

### Coordination and Communication

This is an area in which the PEC Team excels in each of our projects. Our proactive, spirited, approach to building positive team relationships while maintaining the mutual respect of all parties has been paramount to our success. Maintaining open lines of communication and having the entire Project Team develop a commitment to fostering cooperative teamwork will result in the resolution of critical issues in a timely manner.

### Value Engineering

Value Engineering will be performed to minimize the life cycle cost of the project and its elements; suggest operational improvements; identify construction sequence elements; highlight potential problems early; evaluate constructability; and provide a better end product. The value engineering process will be an integral part of the project during formulation and development of project alternatives, preliminary design reports and recommended improvements.

### Quality Control and Coordination Review

The Q3 Team approach is geared towards the systematic elimination of design and construction inconsistencies in the project. The primary technique utilized is the independent review at each stage of all technical work. Our designated Quality Control Manager, John McCarthy, PE, will be responsible for independent reviews of deliverables prior to being submitted to the City. It is the responsibility of our Project Manager, Remi Candaele, to prepare an internal matrix of responses to comments to ensure that no internal or external comments are left unanswered.

## Methods Specific to Municipal Capital Improvement Projects

We understand the complexity of the regulatory framework, the physiographic setting of the City, and demonstrate extensive experience in each aspect of municipal capital improvement projects. Our methodology will be tailored to the specific needs of the City to address the specific task issued by the City. The typical process involves the following approach:

### Preliminary Design Phase

- ✓ Research of existing data regarding the proposed project
- ✓ Meeting with the City and reviewing agencies to discuss design criteria and known constraints. Review project work plan and discuss approach alternatives.
- ✓ Obtaining field and aerial topographic survey data including cross sections.
- ✓ Perform right-of-way / boundary analysis and create property constraint map
- ✓ Prepare technical studies (Traffic Impact Analysis, Parking Studies, Capacity and LOS, Ped and Bicycle Planning, Safe Routes to School, Site Access Review, Traffic Simulation, Circulation Analyses, Hydrology, Hydraulics)





- ✓ Coordinate with third-party utility purveyors for locations of existing and proposed facilities. Submit 1st, 2nd, and 3rd notification letters.
- ✓ Preparation of Utility Composite Plan and potholing investigations, if necessary
- ✓ Develop project concepts and alternatives
- ✓ Prepare the Precise Alignment and Geometric Approval Drawing and verify right-of-way requirements.
- ✓ Prepare design exception reports.
- ✓ CEQA/NEPA documentation and consultation
- ✓ Permitting (Encroachment to stakeholder systems; 401/404/1602 regulatory permitting)
- ✓ Prepare cost estimates and alternatives analysis
- ✓ Identify recommended improvements and prepare preliminary design plans
- ✓ Conduct a geotechnical investigation and prepare the geotechnical engineering report
- ✓ Prepare a Basis of Design Report for review and approval of the County prior to final design
- ✓ Develop updated preliminary cost estimate

### **Final Plans, Specifications and Estimate Phase**

- ✓ Prepare final improvement plans for the approved recommended improvements and other related facilities for roadway, flood control improvements, wall structures, drainage, signals, signing, striping, traffic control, landscaping, construction staging, utility relocation where applicable, and other as appropriate and other related improvements.
- ✓ Prepare structural calculations in accordance with City standards and agency requirements
- ✓ Prepare Project Specifications
- ✓ Develop final cost estimate
- ✓ Prepare legal descriptions and right-of-way maps for required right-of-way or construction easements
- ✓ Coordinate utility relocation agreements
- ✓ Develop Traffic Management Plan, as appropriate.
- ✓ Submit complete PS&E for County and agency reviews
- ✓ Meet with the City and reviewing agencies to discuss review comments and make appropriate revisions
- ✓ Coordinate with County for environmental documentation and regulatory permits
- ✓ Prepare construction bid documents
- ✓ Coordinate of wet and dry utility relocations
- ✓ Construction support services

### **Typical Schedule**

- ✓ Survey and Geotechnical Investigations: 8 weeks
- ✓ Preliminary Design Phase: 12 weeks (including reviews)
- ✓ Final PS&E Phase: 24 weeks (including milestones reviews at 60%, 90%, and 95%)
- ✓ Permitting: Project Specific
- ✓ Bidding and Construction Support Phase: Project-Specific

### **Utility Conflict Resolution**

In our experience, crossings with existing sewer utility lines drive both horizontal and vertical alignments of the proposed storm drain. Each separate relocation of a guy wire will require a separate work order from SCE, including pole load analysis and a 6-month relocation process. Similarly, each relocation of Medium Pressure and High Pressure gas lines will require 4- and 9-months for SoCalGas to process, respectively. To identify potential conflicts between the existing infrastructure and future improvements, all existing utilities will be located, verified, and compile into the topography using a stepwise approach:

- ✓ Site Inspection and Coordination: conduct a site investigation that includes digital documentation. The findings will be used to formulate a project specific approach and scope of services. The information gather will identify utility purveyors in the project vicinity and assesses probable challenges during construction.
- ✓ Research and Gather Record Data: Request records from utility purveyors. Record information will be verified during the topographic survey and compiled into a drawing. ADA ramps in the project vicinity that do not meet federal regulations will be identified and updated during design.



- ✓ Topography Survey: Research right-of-way record information, survey visible utility features, and dip manholes within the project area. Survey information will be used to verify utility locations, inverts, size, and flow direction.
- ✓ Sub-Surface Investigation: Possible utility conflicts are identified. Recommendations for pothole investigation and ground penetration radar to verify size and location. An exhibit that identifies the work within the excavation zone will be coordinated with the subsurface investigation consultant.
- ✓ Composite Utility Plan: a plan laying out the conceptual alignment (horizontal and vertical) of the proposed storm drain is generated to minimize the impacts on existing utilities and built infrastructure.
- ✓ Our task lead specializes in the coordination with third-party purveyors to relocate both wet and dry utilities. In-house services will minimize the delays in the approval process and during construction.

## Methods Specific to Environmental/Water Quality

### Compliance with Trash Provisions

Much has been learned since the development and implementation of the Trash Amendments Compliance Plan.

- ✓ Regional FCD BMPs, certified by the State Water Board, present a high initial capital cost but would alleviate the maintenance requirements.
- ✓ Infiltration-based BMPs are deemed infeasible due to high moisture or local perched groundwater.
- ✓ The footprint and inherent depth of hydrodynamic separators and media filters would result in cost-prohibitive construction and challenging maintenance operations for City Staff.
- ✓ Inline nets in Santa Ana River would require extensive structural design and permitting from OC Flood Control District.
- ✓ High-Capacity Inline Trash baskets have proven cost-effective by McCallen Park.
- ✓ The City owns and operates several pump stations throughout the City. Each pump station presents an ideal location for implementing and operating full capture devices. Numerous technologies have been evaluated including strainers but deemed not feasible due to maintenance.
  - Q3 has identified a feasible retrofit of the trash rack of the Atlanta Pump Station and the Hamilton Pump Station. **A structural retrofit of the trash racks is deemed the most cost-effective option.**



### NPDES Inspections

Our Team has extensive experience providing comprehensive site inspection in various settings for numerous Cities in Orange County. Specifically:

**Municipal Inspection of Food Service Equipment (FSE):** Our team is fully familiar with the educational materials for the City's FOG Program. When inspecting FSEs, our Team will ensure that reporting has been made, employees have been trained, kitchen-specific BMPs are fully implemented, and grease interceptors, if any, are adequately operated and maintained. Inspection records of grease interceptors will be requested.

**Municipal Inspection of Industrial & Commercial Sites:** Prior to performing an inspection, our Team will review the status of the previous inspections, including the risk level, violations that were previously identified and resolved, as defined in the City database. Visits will be scheduled ahead of time by calling each business for an appointment. If not responsive, our team members will visit the place in person to identify whether the business still exists.

During each visit, **the City's inspection checklist will be completed and photos will be taken.** Areas of focus will include: use of water to wash hardscape, trash in common areas, handling/storage of chemicals and oils, sweeping and debris removal, and making sure the business is aware of their post construction BMPs, among others. In the case where a violation is identified, our Team will coordinate with the City to discuss the encountered conditions. Because these are City businesses, education of the local business staff and communication skills are key to convey the message and ensure that all violations are remediated adequately.



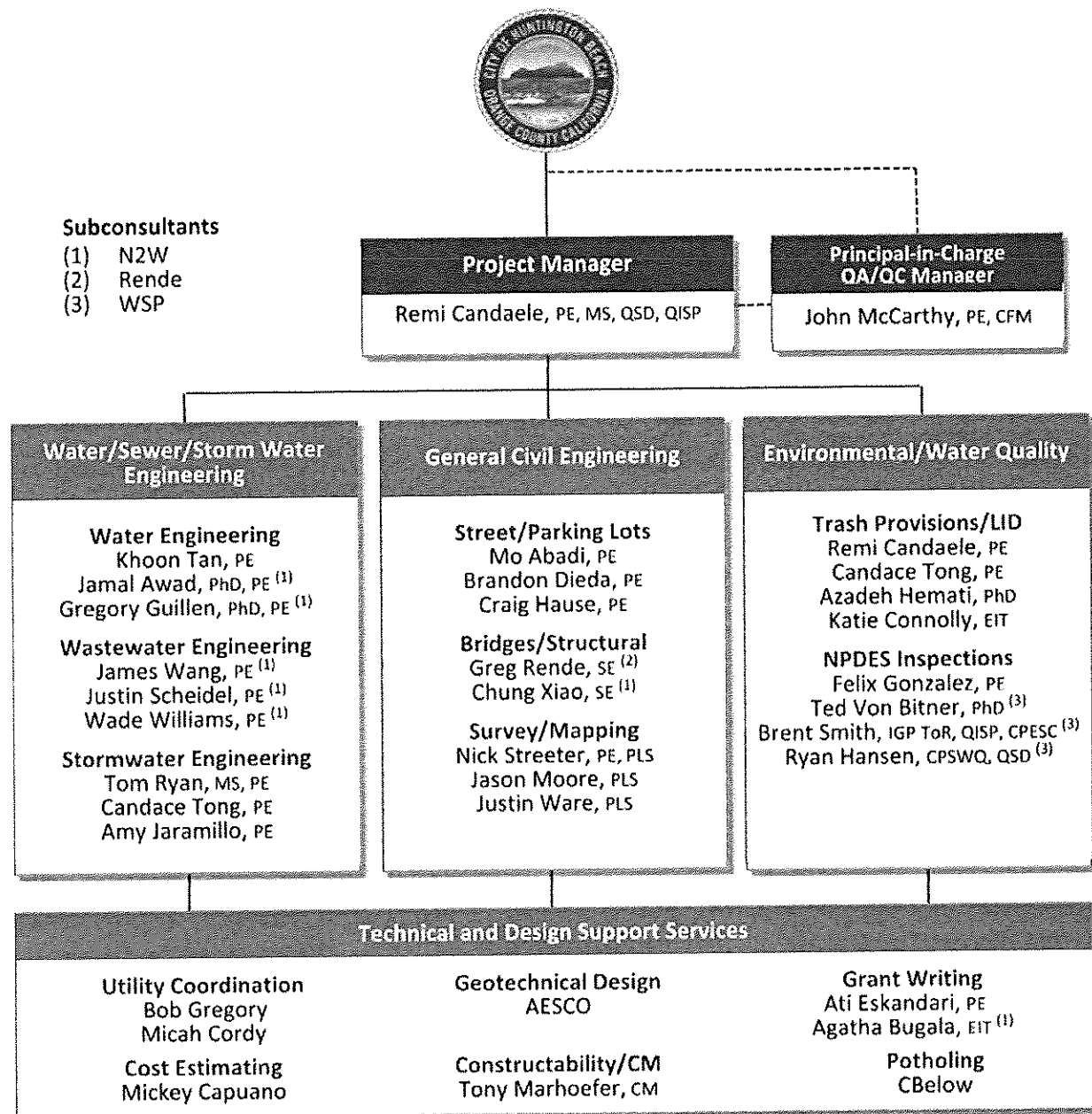


## Staffing

### Organizational Chart

The team personnel, as designated in our Organization Chart below, brings together the technical and leadership experience combined with long-term working relationships, resulting in an ability to **deliver innovative high-quality products** to the City without costly surprises or project misdirection. Although our staff has extensive experience working on small to large-scale projects, we have adopted a small business client-focused philosophy. It is this philosophy that established our mission to be **"A Different Kind of Company"** providing high-quality service to a select group of clients. Our goal is to have long-term relationships with our clients to provide value-driven results.

We offer **150+ Orange County-based professionals** dedicated to the City's Public Works's mission. The PEC team members have been managing On-Call contracts with local Public Works agencies for the past three decades and fully understand the specifics of the mission.





## Key Personnel Resumes

### Remi Candaele, MS, PE, QSD, QISP – Project Manager/Key Contact

Remi Candaele brings over 18 years of versatile background in watershed management planning and the design and evaluation of storm water improvements for Public Works and Institutional entities. He understands the importance of proactive communication with all stakeholders.

#### Representative Projects:

- **As-Needed Environmental Engineering On-Call.** *City of Huntington Beach, CA.* Project Manager supporting the city with its Stormwater Implementation Program with the Trash Provisions Implementation program and the completion of the Citywide Infrastructure Report Card.
- **Irvine Great Park Irrigation Ponds.** *City of Irvine, CA.* Project Manager for the construction documents, including design, plans, specifications, and estimates for two large irrigation ponds, Title 22 treatment system, SCADA infrastructure, and pump systems.
- **Storm Drain Line I and Euclid Avenue Street Improvements.** *City of Chino.* Project Manager for the PS&E of 2.5 miles of street, drainage, and utility improvements.
- **MPD System T-2 Storm Drain and Street Improvements.** *City of Fontana.* Senior Project Manager in charge of the preparation of construction documents for 2.5 miles of storm drain improvements. Street Improvements include 3,000 LF of raised landscaped medians, two traffic signal modifications; widening the Foothill/Juniper intersection; 1.25 miles of ADA retrofit of all sidewalks, curb ramps, and driveway approaches; and 2.25 miles of pavement rehabilitation.
- **BMP Inspections and O&M BMP Manual.** *Orange County Public Works, CA*
- **State College Boulevard Capture and Infiltration.** *City of Anaheim, CA*
- **Los Angeles Pierce College Stormwater Capture, Los Angeles, CA.** Project Manager for PS&E of stormwater diversion from flood control channels to subsurface infiltration chambers, capture-and-use wet wells, and biofiltration planters in a parking lot. Coordination with architectural, landscape, structural, and MEP.

**Years of Experience:** 18

#### Education

M.S., Civil Engineering, Water Resources, University of Texas, Austin

#### Registration

Professional Engineer – Civil, CA #77517

#### Professional Accomplishments

2021 – Carl Blum Award, LA Section ASCE

2022 Past President, LA Section Orange County Branch, ASCE

2023-25 SoCal Director, Floodplain Management Association

### John McCarthy, PE, CFM – Principal/QC Manager

John has 36 years of experience and expertise in the development of technical studies and design for stormwater management projects for public work projects throughout southern California. Over the past 25 years he has served as the Project Manager for “on-call” services with Orange County Public Works and lead the design of numerous regional multi-benefit watershed studies.

#### Representative Projects:

- **Huntington Beach and Talbert Channels, Huntington Beach, CA.** *Orange County Public Works.* As a subconsultant to GHD, provided hydrology, hydraulics, and scour analyses for the design of repairs to the existing sheet pile walls for 8.7 miles of the channel systems, including an evaluation of the effects of sea level rise.
- **Assessment of Climate Change-Induced Impacts to Flooding in Southeast Huntington Beach.** *SLF-HB Magnolia, LLC.* Principal for the hydrology and hydraulic analysis of the existing storm drain infrastructure to evaluate the impacts from climate change and sea level rise.
- **As-Needed Environmental Engineering On-Call.** *City of Huntington Beach, CA.* Principal supporting the city with its Stormwater Implementation Program with the Trash Provisions Implementation program and the completion of the Citywide Infrastructure Report Card.
- **Storm Drain Line I and Euclid Avenue Street Improvements.** *City of Chino.* Principal for the PS&E of 2.5 miles of street, drainage, and utility improvements.
- **San Juan Creek and Trabuco Creek Facility Study, Orange County, CA.** *Orange County Public Works.* Principal for the preparation of a Facility Report to develop recommended improvements along the two channels.

**Years of Experience:** 36

#### Registration

Professional Engineer – Civil, California #47583 – 1991  
Certified Floodplain Manager – #05-01596 – 2005

#### Education

B.S., Civil Engineering, California State Polytechnic University, San Luis Obispo – 1989  
Certificate, Light Construction and Development Management – 1997

#### Professional Affiliations

American Society of Civil Engineers (ASCE)  
Floodplain Management Association (FMA)



## James Wang, MS, PE – Wastewater (N2W)

Mr. Wang has civil and environmental engineering experience spanning back to 1997, working as project manager, design manager, design lead, and project engineer. He has completed over 100 projects in water and wastewater treatment plant, recycling, and desalination facility, bio-solid and biogas, pump station and pipeline, hydraulic modeling, and SCADA system. Mr. Wang's areas of expertise include studies, planning, design, cost estimate, construction management, operation and maintenance of treatment plant, water distribution and sewage collection system, water quality testing and modeling, and AutoCAD.

### Representative Projects:

- **Manglar Blending Facility.** *City of Corona.* Design Manager for the a dual zone Booster Pumping Station (BPS) with a total firm capacity of 5,000 gpm using five pumps (two 100 HP and three 150 HP).
- **Magnolia Stormwater Pump Station.** *City of Riverside.* Project Manager. Designed a 1,000GPM stormwater pump station for the Magnolia Grade Separation project. The system design includes civil, mechanical, electrical, instrumentation and SCADA.
- **Reclaimed Water Division Pump Station.** *Santa Margarita Water District.* Lead designer to reclaiming dry-weather and stormwater flows from the Upper Oso Creek through enhancing the diversion and pumping system located in the Mission Viejo Country Club. Flow was 3,000 gpm.
- **Mossdale Landing Stormwater and Sewer Pump Stations.** *City of Lathrop.* Designed sewer lift station within Mossdale Landing conveys peak waste flows of 7.7 MGD to the City Water Recycling Plant. The stormwater pump station contains three separate stormwater pump station conveying a total of 300 cfs 100-year stormwater flow through a 72-cement mortar lined and coated steel pipe to San Joaquin River.
- **El Corazon Lift Station and Pipeline.** *City of Oceanside.* Designed the new wet pit-dry pit lift station consisting of four 60 HP pumps that provide 100% redundancy for the peak wet weather flow of 8.34 MGD. Included hydraulic modeling, site grading, a 0.6 MG overflow basin, 17,500 LF of discharge forcemain, a Tier 4 diesel backup generator, architectural services, City permitting, odor control, ventilation, MEP.

Years of Experience: 27

Registration  
Civil Engineer, CA

Education  
M.S., University of Windsor,  
Canada, Civil Engineering – 2004

Professional Affiliations  
NASSCO Pipeline Assessment and  
Certification Program

NASSCO Manhole Assessment  
Certification Program

NASSCO Lateral Assessment  
Certification Program

## Jamal Awad, PhD, PE – Water Engineering (N2W)

Jamal is sought after nationally to support creative implementation of engineering solutions and innovative technologies assessments. An example of Jamal's leadership and technical skills is his work as a member of the Blue-Ribbon Panel that assisted the California Department of Public Health (DDW now) in the development of guidelines for Title 22 UV disinfection. Jamal is currently the OE Services Technical Lead for the WVWD \$60M 7.2-mgd Roemer Water Filtration Facility Upgrades and Expansion Project. Jamal had a substantial role in the design definition, evaluating alternatives, and managing the DB Entity procurement.

### Representative Projects:

- **Roemer WFF Progressive DB Expansion Project.** *West Valley Water District.* Project Manager for the \$60M 7.2-mgd Roemer WFF Upgrades and Expansion Project OE Services.
- **On-Call Engineering Services.** *Inland Empire Utilities Agency.* Project manager responsible for preparation of design, plans, specifications, cost estimates, and contract documents for capital projects including electrical/instrumentation, process controls, structural design, sewer improvements, water & recycled water improvements and wastewater improvements, constructability reviews, as well as Asset Management.
- **Encinitas Ranch Recycled Water Pump Station and Pipeline.** *San Elijo Joint Powers Authority, CA.* 6,000 linear feet of six- and eight-inch PVC non-potable waterline throughout the private neighborhood of Encinitas Ranch. Project included connection to the existing non-potable water system, design and installation of a 200-gpm booster station, and installation of pipelines throughout the community to convert the existing potable water irrigation system to non-potable water. Project challenges included extensive utility conflicts within the community which had to be mitigated while maintaining required separation requirements for non-potable waterlines.

Years of Experience: 33

Registration  
Professional Engineer - Civil,  
CA#50719

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



## Tom Ryan, MS, PE – Stormwater

Mr. Ryan has over 26 years of engineering experience in engineering and project management. Project experience includes preparation of stormwater capture and diversion studies, watershed and water quality planning, pilot project implementation, sampling, natural treatment systems and structural BMP design, advanced hydrologic/hydraulic analyses, and drainage and green infrastructure designs.

**Years of Experience:** 26

**Registration**

Civil Engineer, CA #61701 – 2000

**Education**

M.S., Royal Institute of Technology, Stockholm, Sweden, Environmental Engineering – 1997

B.S., California State University, Long Beach, Civil Engineering – 1995

**Representative Projects:**

- **Stormwater Master Plan Update and Green Infrastructure Implementation.** *City of Costa Mesa.* Project Manager. The project includes the evaluation of the entire City's stormwater infrastructure (15.6 square miles) using advanced stormwater modeling techniques. Identification of potential regional sites.
- **Assessment of Climate Change-Induced Impacts to Flooding in Southeast Huntington Beach.** *SLF-HB Magnolia, LLC.* Task Manager for the hydrology and hydraulic analysis of the existing storm drain infrastructure to evaluate the impacts from climate change and sea level rise.
- **Laguna Canyon Channel Culvert Flood Alternative Study.** *City of Laguna Beach.* Project Manager for the hydraulic evaluation of the historic flooding of downtown Laguna Beach using 2D hydraulic models. Prepared preliminary plans.
- **Watershed-Wide Green Infrastructure Analysis.** *City of Encinitas.* Project Manager. Evaluation of the benefits of using green infrastructure throughout the study area. The study identified potential locations to retrofit green streets, diversion to sewer, biofiltration, and other green facilities in the urbanized watershed.
- **Huntington Beach and Talbert Channels, Huntington Beach, CA.** *Orange County Public Works.* As a subconsultant to GHD, provided hydrology, hydraulics, and scour analyses for the design of repairs to the existing sheet pile walls for 8.7 miles of the channel systems, including an evaluation of the effects of sea level rise.

## Mohammad Abadi, PE – General Civil

Mo Abadi is a seasoned civil engineer with more than 39 years of extensive and rounded experience in the design and construction industry. He is a demonstrated leader in directing staff and design teams for successful and timely completion of projects. His extensive technical expertise in planning, development and construction of public infrastructure encompasses street, storm drainage, sanitary sewer, potable and non-potable water, dry utilities, and water quality related facilities. His expertise also extends to site layout, grading, hydrology, and hydraulic analysis.

**Years of Experience:** 39

**Registration**

Professional Engineer - Civil, CA #60131

**Education**

B.S., California State Polytechnic University, Pomona, Civil Engineering – 2014

**Representative Projects:**

- **Pavement Rehabilitation Program.** *City of Villa Park, CA.* PS&E for the City's annual pavement rehabilitation project that includes residential and collector streets serving residential neighborhoods, schools and commercial establishments.
- **Spring Street and El Camino Real ADA Improvements.** *City of San Juan Capistrano, CA.* PS&E to facilitate the re-grading of the El Camino Real and Spring intersection to accommodate new ADA ramps and crosswalks in front of the school. A street chicane was added to narrow the street and widen the decorative sidewalk.
- **Kendall Street Raised Median Island.** *City of San Bernardino, CA.* PS&E to accommodate a raised median island along the roadway with modifications to the existing pavement sections to reduce the excessive superelevation along curved roadway segments in conjunction with pavement rehabilitation strategies.
- **Verdugo Street Beautification.** *City of San Juan Capistrano, CA.* PS&E for a streetscape with reduced street widths and widened sidewalks for a more pedestrian focused experience that can also accommodate sidewalk dining and temporary street closures for special events.
- **Glassell Campus LID Retrofit.** *Orange County Public Works.* PS&E for the 9.4-acre LID retrofit of the County's Glassell Campus Facility. The project was funded via a Prop 84 grant and showcased a state-of-the-art transformation with stormwater capture, treatment, outreach and research center.
- **Water Resources Engineering Plan Checking.** *City of Santa Ana, CA.* Providing plan checking for the water resources department since 2020.



## Nick Streeter, PE, PLS – Survey/Mapping

Mr. Nick Streeter has over 22 years of experience as a civil engineer and land surveyor. His experience has included project design and management in public works projects throughout Orange County, Riverside County, and the Coachella Valley. Mr. Streeter has extensive knowledge in the preparation of survey and mapping related documents and the management of survey crews.

### Representative Projects:

- **Engineering and Survey On-Call.** *City of San Juan Capistrano.* Prepared Exhibits and Legal Descriptions for Right-of-Way Acquisition, through analysis and interpretation of Deeds and Easement Documents.
- **Survey On-Call.** *University of California, Irvine.* Boundary analysis, Title Report due-diligence and the preparation of Record of Surveys and A.L.T.A. surveys. Final Parcel Maps, Tract Maps, Lot Line Adjustments, Easement Exhibits and Legal Descriptions.
- **Spring Street and El Camino Real ADA Improvements.** *City of San Juan Capistrano, CA.* Design survey to facilitate the re-grading of the El Camino Real and Spring intersection to accommodate new ADA ramps and crosswalks in front of the school. A street chicane was added to narrow the street and widen the decorative sidewalk.
- **Ball Road Recharge Basin.** *Orange County Water District.* Site development analysis and concept design inclusive of mapping, boundary analysis and topographic survey in support of the feasibility and planning study to assess development of the Ball Road Recharge Basin for commercial/industrial use.
- **Boeing Facility Redevelopment / McDonnell Center Business Park, Huntington Beach.** *The Boeing Company.* Boundary survey, ALTA/ACSM Survey, Topographic Survey, Construction Staking, As-Built Construction Survey.

**Years of Experience:** 22

### Registration

Professional Engineer - Civil, CA  
#70862

Professional Land Surveyor - CA  
#9067

### Education

B.S., California State Polytechnic  
University, San Luis Obispo, Civil  
Engineering – 2003

## Candace Tong, PE – LID Design /Trash Provisions

Mrs. Tong is a project engineer over ten years of professional experience encompassing storm water management projects including, hydrologic and hydraulic and water quality modeling, LID design, regional BMP design, storm drain and channel design, one- and two-dimensional hydraulic modeling, and flood hazard mitigation planning and design throughout Southern California.

### Representative Projects:

- **Los Angeles Pierce College Stormwater Capture, Los Angeles, CA.**  
Project engineer responsible for PS&E of stormwater diversion from flood control channels to subsurface infiltration chambers, capture-and-use wet wells, and biofiltration planters in a parking lot. Coordination with architectural, landscape, structural, and MEP. Safe Clean Water Program.
- **Costa Mesa Storm Drain Master Plan, Costa Mesa, CA.** *City of Costa Mesa.* Project engineer for preparation of stormwater master plan for the city including 1 & 2D hydrology/hydraulics and Regional LID retrofit plans.
- **As-Needed Environmental Engineering On-Call.** *City of Huntington Beach, CA.* Project Engineer supporting the city with its Stormwater Implementation Program and OCTA Measure M2 Project Design.
- **Tank & Booster Station 24 Rebuild Low Impact Development.** *California Water Service. City of Torrance, CA.* Project Engineer for the onsite design to accommodate the removal of the 4 existing water tanks and the installation of 2 proposed water tanks
- **On-Call Stormwater Assistance, Ventura, CA.** *County of Ventura, CA.* Project Engineer hydrology and hydraulic support for the Stormwater Implementation Program for El Rio and Saticoy regional BMP design.
- **Northeast Stormwater Capture and Biofiltration.** *City of Monterey Park, CA.* Project engineer responsible for PS&E of stormwater diversion from storm drain facilities to biofiltration planters in a parking lot and bus transit. Coordination with architectural, landscape, structural, and MEP. Safe Clean Water Program.

**Years of Experience:** 10

### Registration

Professional Engineer - Civil, CA  
#90444 – 2019

### Education

B.S., University of California, Irvine,  
Civil Engineering – 2014



## Felix Gonzalez, PE – LID Design / NPDES Inspections

Mr. Gonzalez brings over thirty-three years of professional in stormwater quality and public works in Southern California. His expertise includes civil engineering management and design for public infrastructure improvements ranging from stormwater infrastructure, water quality infrastructures, streets, residential & recreational facilities, commercial and industrial developments, and public utility infrastructure improvements inclusive of sewer, water, and storm drainage facilities. Felix has prepared over 200 WQMPs and inspected over 500 developments and water quality compliance over the course of his career, respectively.

**Years of Experience:** 33

**Education**

B.S., California State University,  
Long Beach, Civil Engineering –  
1991

**Registration**

Professional Engineer – Civil,  
CA #67660

### Representative Projects:

- **On-Call Water Resources Development Plan Checking Services.** *City of Santa Ana, CA.* Reviews and inspections of over 300 development and public utility projects.
- **On-Call Development Plan Checking Services.** *City of Santa Ana, CA.* Reviews and inspections of over 80 development and public utility projects.
- **SR-47 and I-5 Interchange Water Quality Mitigation.** *City of San Juan Capistrano, CA*
- **Glassell Campus LID Retrofit.** *Orange County Public Works, CA*
- **Site Improvements and Water Quality Certifications.** *Boeing Facilities, Huntington Beach, CA*
- **BMP Inspections and O&M BMP Manual.** *Orange County Public Works, CA*
- **Wakunaga of America/Kyolic Distribution Facility.** *City of Riverside, CA*

## Ted Von Bitner, PhD – NPDES Inspections (WSP)

Ted has 24 years of environmental science and program management of water quality related compliance programs for various city and county-level government agencies. His experience has included supervising complex environmental studies to support watershed and jurisdictional planning efforts, conducting quality assurance reviews of jurisdictional runoff management programs, and managing local agency environmental programs.

**Years of Experience:** 24

**Education**

PhD., University of California, Los  
Angeles, Inorganic Chemistry

### Representative Projects:

- **Commercial and Industrial Inspection Proposal for NPDES Compliance,** City of San Clemente, California
- **Municipal NPDES Programs, Orange County, California.** NPDES compliance programs for the Cities of Santa Ana, Anaheim, Costa Mesa, Laguna Hills, San Juan Capistrano, Irvine, and Laguna Niguel. Projects have involved providing annual report assistance; providing support during several regulatory audits from both United States Environmental Protection Agency (U.S. EPA) and the Santa Ana RWQCB; providing trainings to staff on topics such as NPDES permit compliance, Construction General Permit compliance, industrial/commercial NPDES inspections, and Post-Construction Structural BMP inspection programs; assisting with grant funding requirements
- **Phase I NPDES Permittees Project, Orange County, California:** Ted served as a project principal under this contract, which involved Orange County Phase 1 NPDES Permittees developing an implementation plan for compliance with the statewide trash policy. Geographic Information System (GIS)-based trash loading models, and conducting visual monitoring to focus the geographic scope of the plan.
- **Baseline Condition Assessment and Trash Reduction, San Diego Bay Watershed, San Diego, California:** Ted managed a multi-stakeholder study to monitor, assess, and identify potential opportunities for reducing trash in San Diego Bay.
- **City of San Diego, Phase I NPDES Permit Implementation, San Diego, California:** Ted assisted with the implementation of an Illicit Discharge Detection & Elimination program

Additional resumes are available upon request.





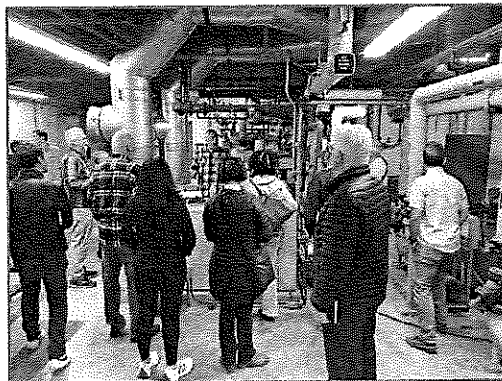
## Qualifications

The following representative projects highlight the experience of Q3 and its team members relevant to the successful implementation of this project. Reference contact information is provided for each project.

### On-Call Environmental Engineering Services, Huntington Beach, CA (2017-Ongoing)

Actively supporting the City of Huntington Beach since 2017.  
Tasks include:

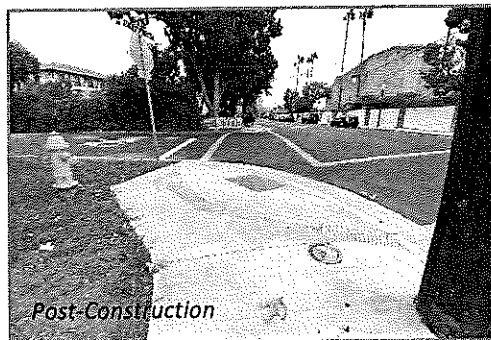
- Citywide Infrastructure Report Card to evaluate all aspects of infrastructure based on capacity, condition, operation and maintenance, funding, resiliency, and innovation. Coordinated efforts across all City departments. Expert Evaluation using metrics of: Buildings, Parks, Utilities, Roadways, Bridges, IT, Harbor, Coastal, etc.
- BMP Feasibility Study and Master Planning including the Citywide Trash Compliance Plan. Includes an evaluation of the existing drainage system to mitigate flooding.
- Construction documents for LID and Trash BMPs including the McCallen Park Water Quality Improvements to remove trash and debris from more than 2 square miles. A BMP Feasibility Study was performed to identify cost-effective regional BMPs, including infiltration BMPs, biofiltration BMPs, and large-scale hydrodynamic separators based on long-term maintenance costs. Successful funding through the OCTA M2 Tier 1 grant program and collaborative efforts with Caltrans District 12.
- Conceptual design plans for the retrofit of the Atlanta and Hamilton pump stations to capture and treat stormwater and minimize street flooding.
- Commercial and Industrial inspections of over 250 businesses



<b>References:</b>	Jim Merid, Principal for Environmental Services, City of Huntington Beach Phone: 714.375.8445      Email: <a href="mailto:Jim.merid@surfcity-hb.org">Jim.merid@surfcity-hb.org</a>
<b>Key Personnel:</b>	Remi Candaele (PM), Candace Tong, Azadeh Hemati, John McCarthy

### Spring Street & El Camino Real ADA Improvements, San Juan Capistrano, CA (2020-2022)

The San Juan Elementary School located at 31642 El Camino Real serves over 700 kindergarteners through 5th grade students. The combined student and visitor pedestrian traffic to the area is significant and necessitate certain infrastructure improvements to be constructed to ensure pedestrian safety and promote safe routes to school. To ensure a clear and compliant ADA path of travel, Q3/PEC provided the design to facilitate the re-grading of the El Camino Real and Spring intersection to accommodate new ADA ramps and crosswalks in front of the school. As part of the intersection improvements, a street chicane on the west side of El Camino Real to narrow the street and widen the decorative sidewalk is provided to accommodate an ADA-compliant path of travel amidst various obstructions posed by existing surface utility facilities. Existing surface drainage issues at the intersection was also addressed without the use of storm drains. Other improvements implemented as part of this project includes the replacement of two incompliant ADA ramps at the El Camino Real and Ortega Highway intersection, school driveway reconstruction, removal/relocation of an existing school crosswalk, on-street parking reconfiguration, and pavement resurfacing. Preparation of legal description and exhibits was also performed to accommodate the placement of ADA ramp by the elementary school. Design and construction of this project was funded through the Community Development Block Grant (CDBG) Program.

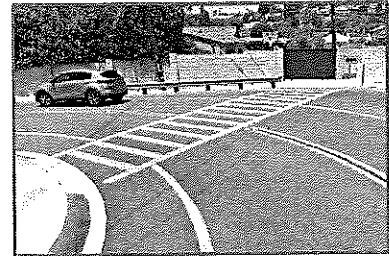


<b>References:</b>	Paul Meshkin, Senior Civil Engineer, City of San Juan Capistrano Phone: 949.443.6350      Email: <a href="mailto:pmeshkin@sanjuancapistrano.org">pmeshkin@sanjuancapistrano.org</a>
<b>Key Personnel:</b>	Mo Abadi (PM), Felix Gonzalez, Ana Martinez, Nick Streeter



### Pavement Rehabilitation Program, Villa Park, CA (2019-2021)

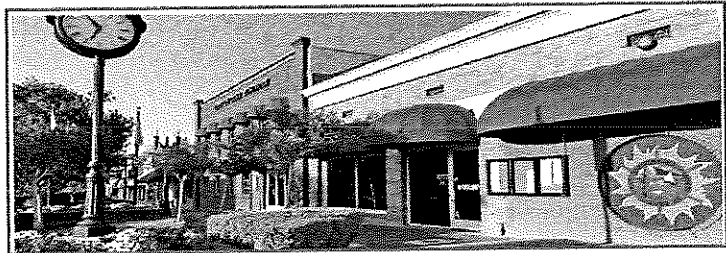
Q3/PEC Staff prepared Plans, Specifications, and Estimates (PS&E) for the City of Villa Park to support their annual pavement rehabilitation project that includes residential and collector streets serving residential neighborhoods, schools and commercial establishments. The project generally provides for the removal and replacement of deteriorated street sections, pavement grinding and overlay utilizing asphalt rubber hot mix and fiber reinforcements, replacement of curb, gutter, sidewalk, ADA ramps and drainage improvements. Collector streets programmed as part of this project includes Santiago Boulevard, Serrano Avenue, Rama Street, and Center Street / Valley Drive. Local residential streets include Charter Road, Fleet Road, James Road, Winn circle, Robbie Circle, Janice Circle, Robin Way, Eastwood Circle, Villa Woods Drive, Villa Woods Circle, and Featherhill Drive.



<b>References:</b>	Mahrooz Ilkanipour, Assistant City Engineer, City of Villa Park, CA Phone: 714.998.1500      Email: <a href="mailto:mahrooz@villapark.org">mahrooz@villapark.org</a>
<b>Key Personnel:</b>	Mo Abadi (PM), Felix Gonzalez, Ana Martinez, Nick Streeter

### Main Street Pedestrian Safety Improvements and Information Technology Infrastructure, Lake Elsinore, CA (2023 - Ongoing Construction)

The Main Street Pedestrian Safety Improvements and Information Technology Infrastructure Project enhances and creates a safe pedestrian corridor along Main Street from Lakeshore Drive to the Interstate 15 southbound ramps. The scope of enhancement included the implementation of three (3) decorative street intersections with recessed city logo imprints, and various decorative crosswalks, sidewalks, and ADA-compliant ramp improvements. An inset pedestrian flashing light system for the existing crosswalk that fronts City Hall on Main Street that offers visibility from a far distance, is bicycle safe and requires little maintenance, is also provided to maximize visual and audible impacts that alert drivers to prepare and stop at the pedestrian crossing. Technology infrastructure design improvements that comprise of utility duct banks and conduits for electrical, data and communication lines with stub-outs and pull boxes within sidewalks and planter areas, were performed to provide for the City's future infrastructure needs.



<b>References:</b>	Carlos Norvani, LEED AP, Engineer, City of Lake Elsinore, CA Phone: 951.674-3124 Ext. 248      Email: <a href="mailto:cnorvani@Lake-Elsinore.org">cnorvani@Lake-Elsinore.org</a>
<b>Key Personnel:</b>	Mo Abadi (PM), Felix Gonzalez, Ana Martinez, Nick Streeter

### Citywide Park Accessibility, Corona, CA (2021-Ongoing)

The City of Corona has identified a goal of being ADA compliant for its park facilities to provide full access and enjoyment to the surrounding residents and to the disabled community via ADA improvements. The projects include the identification of recommendations and design for retrofitting and/or reconstruction of select facilities at existing parks to meet current City and ADA standards. Q3/PEC was the civil engineer / surveyor for the final design for ADA retrofit improvements for five parks sites including Cresta Verde, Lincoln, Ontario, Ridgeline, and Victoria in the City of Corona. Responsibilities included: PS&E, ensuring ADA compliance, survey control, project base mapping, coordination with city staff regarding project scope, impacts, budget, and overall engineering design support services.



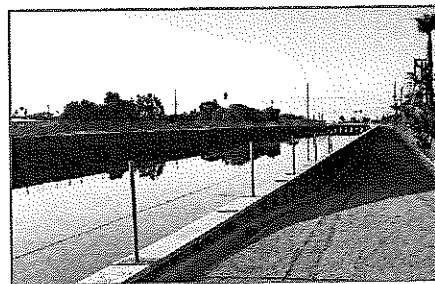
<b>References:</b>	Tracy Martin, Project Manager, City of Corona, CA Phone: 951.817.5880      Email: <a href="mailto:Tracy.Martin@coronaca.gov">Tracy.Martin@coronaca.gov</a>
<b>Key Personnel:</b>	Tony Marhoefer (PM), Jason Moore, Ati Eskandari, Remi Candaele



### Huntington Beach and Talbert Channels, Sheet Pile Repair Design-Build, Huntington Beach, CA (2019-2022)

Q3 Consulting prepared a detailed hydrology, hydraulic and scour analysis of the Huntington Beach and Talbert Channels, in conjunction with the prime consultant, to identify and evaluate the impacts and design constraints associated with potential alternatives to repair channel banks. Work included the preparation of flood hydrographs, 1D & 2D steady and unsteady channel hydraulics, and scour to support the channel repair design work and to be used as the basis for the future certification of the levee system.

A two-dimensional, unsteady flow model was used to appropriately analyze the system performance and take into consideration the tidal wetlands located along the lower reaches of the channels, the time variation of discharges to the channels from the local watersheds and storm water pump stations, and the risk and uncertainty associated with the effects of climate change and sea level rise (SLR). Channel hydraulics and scour calculations were completed in conformance with the requirements in Title 44 of the Code of Federal Regulation, Section 65.10 (44 CFR 65.10) for mapping of areas protected by levee systems.

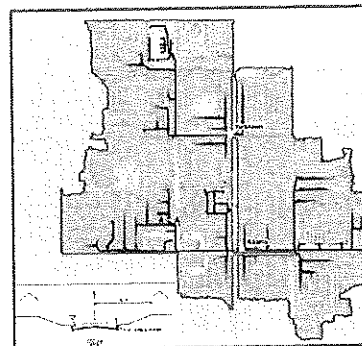


<b>References:</b>	Angel Ramirez, PE, Civil Engineer, OC Public Works Phone: 714.245.4599      Email: <a href="mailto:Angel.Ramirez@ocpw.ocgov.com">Angel.Ramirez@ocpw.ocgov.com</a>
<b>Key Personnel:</b>	John McCarthy, PE (PM), Howard Barndt, Candace Tong, Remi Candaele

### Magnolia Tank Farm Climate Change and Sea Level Rise – Flood Hazard Study, Huntington Beach, CA (2023-2024)

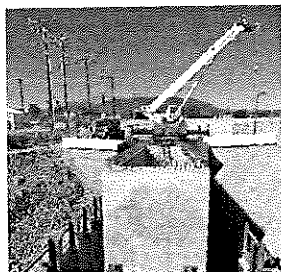
Q3 prepared an assessment of climate change-induced impacts to flooding in southeast Huntington Beach and identify adaptation measure for the future conditions. The results of the assessment are intended for use by the City of Huntington Beach (City) and the California Coastal Commission (CCC) to make informed decisions regarding development projects and adaptation measures for southeast Huntington Beach. A 1D/2D rain-on-grid model was developed to determine that the current and future condition flood levels do not impact existing structures. Some street areas do experience flooding of 1-1.5 feet, for a duration of approximately 1 to 2 hours in a 100-year 24-hour storm event.

The additional street flooding will occur in future conditions and if desired, would most likely require increasing both storm drain conduit and inlet capacities and pump station capacities.



<b>References:</b>	Stephen Logan, Senior Vice President, Shopoff Realty Phone: 949.417.1396      Email: <a href="mailto:SLogan@shopoff.com">SLogan@shopoff.com</a>
<b>Key Personnel:</b>	John McCarthy (PM), Tom Ryan, Remi Candaele, Candace Tong, Zack Snyder

### Roemer WFF Upgrades and Expansion, Rialto, CA (2021-Ongoing)



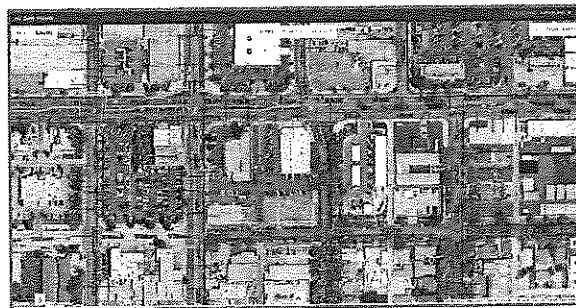
N2W designed and provided construction support West Valley Water District. The Project adds new Influent and Effluent Pump Stations. The Influent Pump Station includes 3 4-MGD pumps with VFDs, expandable to 5 pumps. The Effluent Pump Station includes 3 4.2-MGD pumps with VFDs, expandable to 5 pumps as well. The Project also include an intermediate pump station with 3 3,000-gpm horizontal pumps with VFDs to direct water through the GAC process. N2W Engineering is currently providing significant support to the WVWD during the Design-Build phase including technical reviews, quality assurance, permitting assistance, and ESDC.

<b>References:</b>	Linda Jadeski, Assistant General Manager, West Valley Water District Phone: 909.820.3713      Email: <a href="mailto:ljadeski@wvwd.org">ljadeski@wvwd.org</a>
<b>Key Personnel:</b>	Jamal Awad (PM), James Wang (MEP), Greg Guillen, Justin Scheidel (MEP/Structural)



### On-Call Water Resources Engineering Services, Santa Ana, CA (2018-Ongoing)

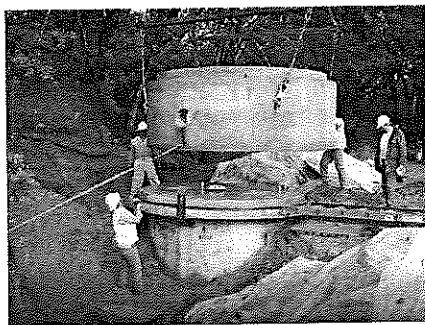
PEC/Q3 Staff has been supporting the City of Santa Ana with water resources engineering tasks since 2020. Typical plans anticipated for review of these development includes sewer and water (domestic, potential reclaimed and fire) plans, street improvement plans, storm drainage plans, dry utility improvement plans, site utility plans, grading plans (precise, rough, mass), and may require review of appurtenant documents such as Conditions of Approvals (COA), Tentative Tract / Parcel Maps (TTM / TPM), easements documents, plats, plumbing, fire, dry utility plans and other documents.



The review of sanitary sewer systems would generally include mainline and lateral design, materials, fittings, manholes, clean-outs, gas venting, backflow preventers, and other related appurtenances. The review of water improvements may involve domestic, reclaimed (limited per City infrastructure) and fire water design, materials, fittings, hydrants, air blow-offs / air and vacuum release valves, gate / butterfly valves, backflow preventers / detector checks, domestic and irrigation meters, and other related appurtenances.

<b>References:</b>	Heidi Chou, Senior Civil Engineer, City of Santa Ana, CA Phone: 714.647.3571      Email: <a href="mailto:hchou@santa-ana.org">hchou@santa-ana.org</a>
<b>Key Personnel:</b>	Felix Gonzalez (PM), Khoon Tan, Mo Abadi, Ana Martinez, Nick Streeter

### El Corazon Lift Station, Oceanside, CA (2022-2024)



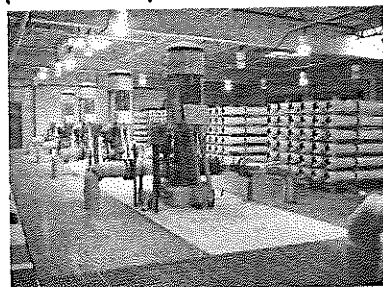
N2W designed the new El Corazon Lift Station for the City of Oceanside to convey sewage from the central part of the City to the San Luis Rey Water Reclamation Plant and built in conjunction with the decommissioning of the La Salina Wastewater Treatment Plant. El Corazon is a wet pit-dry pit lift station consisting of four 60 HP pumps that provide 100% redundancy for the peak wet weather flow of 8.34 MGD.

The project also includes hydraulic modeling, site grading, a 0.6 MG overflow basin, 17,500 LF of discharge forcemain, a Tier 4 diesel backup generator, architectural services, City permitting, odor control,

ventilation, plumbing, electrical, and instrumentation.

<b>References:</b>	Kirill Dolinskiy, Project Manager, City of Oceanside Phone: 760.435.5828      Email: <a href="mailto:KDolinskiy@oceansideca.org">KDolinskiy@oceansideca.org</a>
<b>Key Personnel:</b>	Greg Guillen (PM), James Wang (MEP), Justin Scheidel (MEP/Structural)

### Inland Empire Brine Line Master Plan Update, Santa Ana Watershed Project Authority, CA (2023-2024)



The Santa Ana Watershed Project Authority (SAWPA) contracted with members of the N2W team to update its Inland Empire Brine Line (IEBL) Master Plan. The Master Plan included analyses of IEBL users, hydraulic capacity (current and future), and brine quality. Team members specifically evaluated potential options for removing per- and polyfluoroalkyl substances (PFAS) from brine. The Master Plan Updated included evaluation of granular activated carbon (GAC) treatment as well as a few "emerging" treatment technologies selected by SAWPA. The N2W team members developed lifecycle cost models for each treatment technology, which considered capital and operating cost estimates for an average treatment system capacity of 30 MGD.

The technologies that were evaluated were determined to be uneconomical. Removing trace quantities of PFAS from a brine at a large scale may become more feasible in the future as other removal technologies mature. The



**Statement of Qualifications**  
**On-Call Civil Engineering Professional Consulting Services**

Master Plan Update provided SAWPA with guidance on its management of PFAS and other emerging contaminants, including surveying individual dischargers for PFAS and other contaminants.

<b>References:</b>	Jeff Mosher, General Manager, Santa Ana Watershed Project Authority Phone: 951.354.4240      Email: <a href="mailto:jmosher@sawpa.org">jmosher@sawpa.org</a>
<b>Key Personnel:</b>	Greg Guillen, Agatha Bugala

### State College Boulevard Stormwater Capture and Conveyance, Anaheim, CA (2023-Ongoing)

Q3 led the preparation of Preliminary Design Report to retrofit the relinquished State College Blvd. VCP pipe into a cost-effective stormwater diversion, treatment, capture, infiltration, and conveyance system. Event-based and long-term effectiveness of the considered alternatives were evaluated using an advanced SWMM5 hydraulic model. 30% plans and profiles, drywell and diversion details, specifications, and probable engineer's estimates of the preferred alternatives are being prepared. For each alternative, a matrix was prepared to summarize utility conflicts, geotechnical recommendations, traffic impacts, maintenance requirements, and cost effectiveness. Q3 supported the City with a successful OCTA Measure M2 application, including the preparation of exhibits and information for the OC Stormwater Tool.



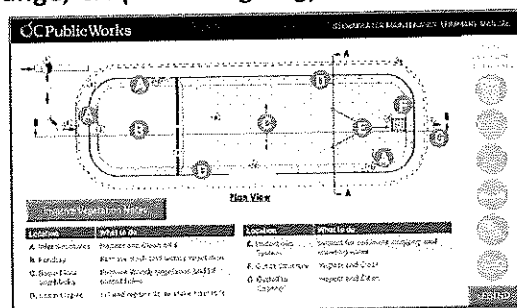
Design specifications were defined to address specific concerns, including the capture of fine sediments (sieve #400 or smaller), the constructability of 60-foot deep drywells in sand strata, the ability to mitigate surcharge on 60-year old joints, and the protection of existing infrastructure.

<b>References:</b>	Lori Ishigo, Project Manager and Keith Linker, Principal Engineer, City of Anaheim Phone: 714.765.4113      Email: <a href="mailto:lishigo@anaheim.net">lishigo@anaheim.net</a>
<b>Key Personnel:</b>	Remi Candaele (PM), Tom Ryan, Azadeh Hemati, Katie Connolly, Candace Tong

### As-Needed Green Infrastructure Engineering, County of Orange, CA (2023-Ongoing)

Q3 has been providing assistance to the County with its Stormwater Green Infrastructure Implementation Program. Services include:

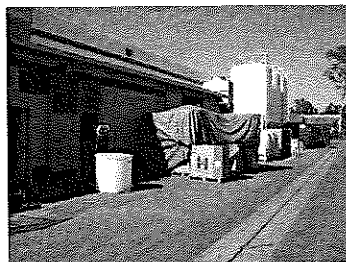
- Post-Construction Inspections and Evaluations of County-Owned Dual-Use Bioretention Basins
- Review of the database containing all water quality BMPs operated and maintained by OC Operations and Maintenance
- Preparation of O&M template form including content, layout, graphics, and related services. Maintenance including vegetation, equipment, location, and materials.
- Support of O&M for long-term implementation



<b>References:</b>	Robert Rodarte, Manager, OC Public Works Phone: 714.955.0642      Email: <a href="mailto:Robert.Rodarte@ocpw.ocgov.com">Robert.Rodarte@ocpw.ocgov.com</a>
<b>Key Personnel:</b>	Remi Candaele, PE (PM), Azadeh Hemati, PhD, Candace Tong, PE



### Santa Ana Inspection and NPDES Program Support System (2004- Ongoing)

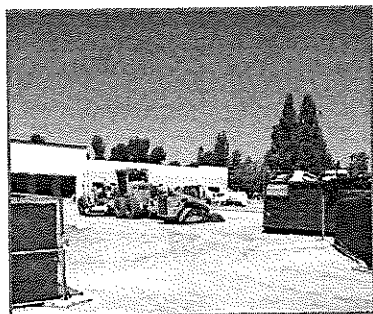


WSP supports the City of Santa Ana with a range of technical services related to the Santa Ana Regional Water Quality Control Board issued MS4 permit including:

(1) Commercial, Industrial, and Municipal Inspections; (2) Inspection database management ; (3) WQMP verification and O&M inspections; (4) Trash Amendments policy Track 1 program; (5) Newport Bay TMDL technical advisory services ; (6) PEA annual reporting assistance; (7) As-needed services including environmental engineering, storm water sampling, Copermittee meetings, grant application assistance, and source investigations

<b>References:</b>	Craig Foster, NPDES Manager, City of Santa Ana Phone: 714-647-5659 Email: <a href="mailto:cfoster@santa-ana.org">cfoster@santa-ana.org</a>
<b>Key Personnel:</b>	Brent Smith (Project Manager), Ted Von Bitner (Trash Provisions Technical Lead)

### NPDES Program Management and Inspection Consulting Services (2023 - Ongoing)

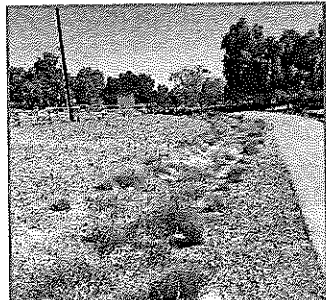


WSP site as a project manager for this contract. We provide a wide range NPDES program management and inspection consulting services to the City's Public Works Department including facility BMP inspections, TMDL regulatory compliance planning, and annual reporting. MS4 Permit support activities have included performing facility BMP inspections, Water Quality Management Plan (WQM) post-construction structural BMP inspections, preparing administrative enforcement letters, support with south Orange County Water Quality Improvement Plan (WQIP) programs including MS4 outfall source investigations, south Orange County Bacteria TMDL and Newport Bay watershed TMDLs planning efforts, and JRMP annual reporting and updates.

<b>References:</b>	Joe Ames, PE, TE, Public Works Director/City Engineer, City of Laguna Hills Phone: 949-707-2655 Email: <a href="mailto:james@lagunahillsCA.gov">james@lagunahillsCA.gov</a>
<b>Key Personnel:</b>	Ryan Hansen (Site Inspections), Ted Von Bitner (PIC/Trash Provisions Technical Lead)

### On-Call Environmental Services (2014 - Ongoing)

MS4 Permit support activities have included performing regulatory compliance facility inspections, responding to public water pollution complaints and preparing administrative enforcement letters, postconstruction structural BMP inspections, reviewing Water Quality Management Plans



(WQMPs) for Priority Development Projects, developing an equestrian facility regulatory compliance inspection program, supporting public works with south Orange County Water Quality Improvement Plan (WQIP) programs including Bacteria TMDL investigations, conducting MS4 outfall investigations, and JRMP updates.

Other as needed Public Works Department have included engineering support services with the Rancho Mission Viejo Riding Park Capital Improvement Project.

<b>References:</b>	Nardy Khan, Engineering and Environmental Services Director , City of San Juan Capistrano Phone: 949-449-1190 Email: <a href="mailto:nkhan@sanjuancapistrano.org">nkhan@sanjuancapistrano.org</a>
<b>Key Personnel:</b>	Brent Smith (NPDES Inspections), Ted Von Bitner (PM)

## References of Work Performed Form

(List 5 Local References)

Comany Name: Proactive Engineering Consultants, Inc.

1. Name of Reference: City of Huntington Beach

Address: 2000 Main St, Huntington Beach, CA 92648

Contact Name: Jim Merid, Principal Phone Number: 714.375.8445

Email: Jim.merid@surfcity-hb.org

Dates of Business: 2017-Ongoing

2. Name of Reference: City of San Juan Capistrano

Address: 32400 Paseo Adelanto, San Juan Capistrano, CA 92675

Contact Name: Paul Meshkin Phone Number: 949.443.6350

Email: pmeshkin@sanjuancapistrano.org

Dates of Business: 2012-Ongoing

3. Name of Reference: Orange County Public Works

Address: 601 N Ross St, Santa Ana, CA 92701

Contact Name: Angel Ramirez Phone Number: 714.245.4599

Email: Angel.Ramirez@ocpw.ocgov.com

Dates of Business: 1995-Ongoing

4. Name of Reference: City of Santa Ana

Address: 20 Civic Center Plaza Ross Annex, Santa Ana, CA 92702

Contact Name: Heidi Chou Phone Number: 714.647.3571

Email: hchou@santa-ana.org

Dates of Business: 2017-Ongoing

5. Name of Reference: City of Anaheim

Address: 200 S Anaheim Blvd, Anaheim, CA 92805

Contact Name: Lori Ishigo / Keith Linker Phone Number: 714.765.4113

Email: lishigo@anaheim.net

Dates of Business: 2022-Ongoing



## 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"

# Proactive Engineering Consultants, Inc.

## On-Call Civil Engineering Professional Consulting Services

### Fee Schedule



March 13, 2025

Submitted to



Submitted by



**PROACTIVE**  
ENGINEERING CONSULTANTS



## FEE SCHEDULE

January 1, 2025 through December 31, 2025

Compensation for work performed on a time and materials basis will be computed as follows:

### MANAGEMENT

### HOURLY RATE

Principal.....	\$280.00
Director .....	255.00
Associate .....	253.00
Sr. Project Manager, Sr. Technical Manager .....	253.00
Project Manager.....	231.00

### CIVIL ENGINEERING SERVICES

Senior Project Engineer.....	\$230.00
Project Engineer .....	210.00
Senior Designer .....	205.00
Designer .....	193.00
Engineer .....	188.00
Design Engineer, Design Technician.....	165.00
CAD Technician, Design Engineer Technician.....	139.00
Project Technician/Project Coordinator.....	127.00
Engineering Technician .....	121.00
Administration .....	107.00
Engineering Intern.....	92.00

### SURVEY AND MAPPING SERVICES

Field Supervisor.....	\$212.00
Project Surveyor.....	186.00
GIS Specialist .....	171.00
Survey Analyst.....	132.00
Three Person Crew .....	335.00
Two Person Crew .....	285.00
One Person Crew.....	205.00

### NOTE: FOR SURVEY WORK REQUIRING PREVAILING WAGE

Three Person Crew .....	\$395.00
Two Person Crew .....	336.00
One Person Crew.....	215.00

### SPECIAL SERVICES

Consultation Re: Litigation .....	\$520.00
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### DRY UTILITY SERVICES

Principal.....	\$245.00
Sr. Project Manager, Sr. Technical Manager .....	200.00
Project Manager.....	188.00
Senior Designer .....	165.00
Project Coordinator.....	115.00
CAD Technician.....	103.00
Assistant Project Coordinator .....	92.00
Administration .....	89.00

### CONSTRUCTION SUPPORT

Principal .....	\$267.00
Sr. Project Manager, Sr. Technical Manager .....	212.00
Project Manager .....	195.00
Field Engineer .....	190.00
Administration .....	89.00

### MISCELLANEOUS FEES

The following services are billed at our cost plus a 15% markup:

- Subcontracted services
- Map check fees or filing fees advanced by us
- Transportation, meals and lodging for overnight travel and incidental travel expenses
- Commercial delivery services, including Federal Express, Express Mail, and Messenger Services
- Plotting and blueprint services and printing  
(The client is encouraged to arrange for printing, other than prints or plots on our blueprint machine and plotters, to be contracted directly with an outside blueprint company acceptable to us. Please provide us with your account information to bill directly to the account to save on markup fees)



**Professional Rate Schedule  
FOR WSP Earth & Environment  
US California/Pacific West Region  
Effective through December 31, 2025**

Invoices include all labor charges, other direct costs, and costs associated with in-house services. Charges include only those services directly attributable to the execution of the work. Time spent when traveling in the interest of the work will be charged in accordance with the hourly rates.

Labor charges are based upon standard hourly billing rates for each category of staff. The billing rates include costs for salary, payroll taxes, insurance associated with employment, benefits (including holiday, sick leave, and vacation), administrative overheads, and profit. Rates by labor category are as follows:

<b>CONSULTANTS &amp; DIRECTORS</b>	<b>RATE</b>	<b>ADMINISTRATIVE SUPPORT</b>	<b>RATE</b>
P0 - Intern	\$100	S1 – Assistant Coordinator	\$80
P1 - Assistant Consultant	\$135	S2 - Project Coordinator	\$100
P2 - Associate Consultant	\$145	S3 - Sr. Project Coordinator	\$120
P3 - Consultant	\$165	S4 - Administrative Specialist	\$135
P4 - Sr. Consultant	\$185	<b>TECHNICIANS</b>	<b>RATE</b>
P5 - Lead Consultant	\$220	T0 - Technician Assistant	\$90
P6 - Sr. Lead Consultant	\$255	T1 - Coordinator, Technician	\$110
P7 - Director	\$320	T2 - Sr. Coordinator, Technician	\$130
P8 - Sr. Director	\$345	T3 - Specialist	\$150
L1 - Manager	\$210	T4 - Sr. Technician	\$160
L2 - Senior Manager	\$245	T5 - Lead Technician	\$180
L3 - Director	\$305		
L4/E1 - Senior/Executive Director	\$365		

**Notes:**

The above rates are subject to revision.

Rates are in US Dollars (\$US)

<sup>1</sup> A 10% carrying charge will be added to all other disbursements including mileage, materials, subcontractor costs, drilling or excavation services and use of external laboratory services.

<sup>2</sup> Rates for specialist services, including but not limited to litigation support; expert witness, including time spent in depositions and the preparation and presentations of testimony; and/or senior level consultation, and priority emergency level services are available upon request.

<sup>3</sup> Rates for laboratory services and use of company owned equipment will be provided upon request.

<sup>4</sup> The rates and charges listed above exclude applicable local and federal taxes. Taxes will appear as a separate line item on each invoice.

<sup>5</sup> The rates noted herein do not contemplate prevailing wage law requirements. A separate rate sheet will be provided if and to the extent prevailing wage applies.

## N2W Engineering, Inc.

### Time and Materials Rate Schedule

January 2025 <sup>(1)</sup>

<b>Technical Experts and Practice Leaders</b>	<b>Unit</b>	<b>Rate</b>
Technical Advisor and Technical Expert	Per Hour	\$305
Principal Engineer and Executive Director	Per Hour	\$295
Vice President and Managing Director	Per Hour	\$290
<b>Engineering and Project Management</b>	<b>Unit</b>	<b>Rate</b>
Senior Project Manager	Per Hour	\$285
Project Manager and Senior Engineer	Per Hour	\$260
Deputy Project Manager and Project Engineer III	Per Hour	\$235
Project Engineer II	Per Hour	\$220
Project Engineer I	Per Hour	\$210
Staff Engineer III	Per Hour	\$205
Staff Engineer II	Per Hour	\$200
Staff Engineer I	Per Hour	\$190
Engineering Associate	Per Hour	\$175
<b>Operations and Maintenance</b>	<b>Unit</b>	<b>Rate</b>
Operation Manager	Per Hour	\$185
Senior Operator	Per Hour	\$150
Operator II	Per Hour	\$140
Operator I	Per Hour	\$130
Operator in Training	Per Hour	\$90
Maintenance and Repair Manager	Per Hour	\$185
Maintenance and Repair Technician II	Per Hour	\$150
Maintenance and Repair Technician I	Per Hour	\$130
<b>Installation and Construction</b>	<b>Unit</b>	<b>Rate</b>
Installation & Construction Manager	Per Hour	\$215
Installation & Construction Superintendent	Per Hour	\$195
Installation & Construction Foreman	Per Hour	\$140
<b>Technical Support and Administrative</b>	<b>Unit</b>	<b>Rate</b>
Sr. CAD Designer	Per Hour	\$175
CAD Designer	Per Hour	\$140
Project Coordinator	Per Hour	\$125
Project Administrator	Per Hour	\$105
<b>Other Expenses <sup>(2)</sup></b>	<b>Unit</b>	<b>Rate</b>
Vehicle Mileage	Per Mile	\$0.75
N2W Truck Use (minimum ½ Day)	Per Day	\$155
Travel Per Diem	Per Day	\$310
Subcontractor and Material Markup	%	15

**Notes:**

- (1) Personnel rates are marked up 150% for litigation consulting and 200% for expert testimony.
- (2) Per diem includes meals, lodging and incidentals; but does not include transportation related expenses. Rates for other equipment not noted to be negotiated and provided upon request.

# RENDE CONSULTING GROUP

## Hourly Rate Schedule 2025

<u>Professional Personnel</u>	<u>Hourly Rate</u>
Principal Engineer .....	\$ 200.00
Senior Engineer .....	\$ 180.00
Project Engineer .....	\$ 160.00
<u>Support</u>	<u>Hourly Rate</u>
CADD Technician .....	\$ 150.00
Vehicle Mileage .....	\$ 0.60/mile

Note:

The actual cost of document reproduction, delivery service, and other direct expenses will be charged as an additional cost plus 15%.

Rates shown are applicable only for services provided during the 2025 calendar year. Rates for services provided in subsequent years are subject to an annual increase of up to 3% effective each January 1<sup>st</sup>.