PROFESSIONAL SERVICES CONTRACT BETWEEN
THE CITY OF HUNTINGTON BEACH AND
ONWARD ENGINEERING
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 ONWARD ENGINEERING, 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 Muhammed Ataya 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:

Onward Engineering
Attn: Muhammed Ataya
300 South Harbor Blvd, Suite 814
Anaheim, CA 92805

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,
ONWARD ENGINEERING

By: _____
Muhammad Ataya, MPA
print name

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

AND

By: _____
Ahmad Ataya
print name

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

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

_____
Mayor

_____
City Clerk

INITIATED AND APPROVED:

_____
Director of Public Works

REVIEWED AND APPROVED:

_____
City Manager

APPROVED AS TO FORM:

_____
City Attorney

EXHIBIT "A"

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

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

B. CONSULTANT'S DUTIES AND RESPONSIBILITIES:

See Attached Exhibit A

C. CITY'S DUTIES AND RESPONSIBILITIES:

1. Furnish Scope of Work and provide a request for proposal for each project.

2. City shall issue a task order for each project based upon scope of services, work schedule, and fee proposal submitted.

D. WORK PROGRAM/PROJECT SCHEDULE:

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

EXHIBIT A

Disciplines of Civil Engineering Services Application Form

Circle all that apply

Civil Engineering Service Area	Bidding? Y/N (circle)
• Water/Sewer/Storm Water Engineering	(Yes) / No
• General Civil Engineering	(Yes) / No
• Ocean Engineering	Yes / (No)
• Environmental/Water Quality	Yes / (No)

Onward Engineering
300 S. Harbor Blvd., Suite 814
Anaheim, CA 92805
(714) 533.3050 I www.oe-eng.com

Cody Hernandez
(714) 960-8878
Public Works Department
2000 Main Street,
Huntington Beach, CA. 92648

March 13th, 2025

SUBJECT: REQUEST FOR PROPOSAL FOR ON-CALL CIVIL ENGINEERING PROFESSIONAL CONSULTING SERVICES

Onward Engineering (OE) is pleased to submit our proposal to provide comprehensive Civil Engineering Professional Consulting Services on an On-Call basis for The City of Huntington Beach. We recognize Huntington Beach's commitment to innovation, sustainability, and excellence in infrastructure—values that align perfectly with our vision of design smarter, build better. By integrating these principles into our work, we are eager to bring our boutique, customized approach to support the City's vital projects.

BOUTIQUE CUSTOMIZATION TAILORED TO HUNTINGTON BEACH'S NEEDS

At OE, we pride ourselves on delivering solutions that are tailored to each community's unique character and priorities. Our boutique approach ensures that Huntington Beach receives personalized service and creative problem-solving. Whether designing innovative public spaces or managing complex construction projects, our team works closely with City staff to align every detail with Huntington Beach's vision.

PLENTY OF EXPERIENCE

OE has the skills and experience in delivering to the City our service strengths, which include Design Engineering, Project and Construction Management and Inspection services for Plan, Specification, and Bid Package Development; Accessibility/ADA Design; Bid Assistance and Engineering Cost Estimation on CIP projects involving Roadway/Street Resurfacing and Improvements; Traffic Signal; Signing/Striping; Sewer and Storm Drain Reconstruction/Replacement/Improvements; among many others. Over the years, we have fine-tuned our approach to public works projects.

Our street and roadwork experience alone includes successfully completed projects for the City of Downey in Areas 1, 2 and 4 (approximately 30 miles); in Diamond Bar (over 65 miles of roadway over 7 consecutive years); Placentia (45% of the City's roadways); Torrance (6 miles); La Habra (over 15 miles in two phases); Hesperia (4 miles); San Bernardino (4 miles); La Mirada (8 miles); Alhambra (4.2 miles); and ADA improvement projects for Long Beach (1,000 ADA Ramps) and Rancho Cucamonga (292 ADA Ramps), allowing us to provide a seamless, confident, and familiar team dynamic.

LEVERAGING TECHNOLOGY FOR AGILE PROJECT MANAGEMENT

To ensure efficiency and transparency, we implement agile project management tools like ClickUp to manage tasks, track progress, and facilitate collaboration. This cloud-based platform allows real-time updates, Gantt chart visualization, and resource allocation, ensuring seamless communication between our team and City stakeholders. ClickUp's flexibility allows us to adapt quickly to changing project priorities while maintaining a laser focus on schedule and budget compliance.

ORANGE VEST

OE will utilize ORANGE VEST© for construction reporting on this project. ORANGE VEST© is our proprietary construction tool, which allows us to document work in real-time, and have those quantities, materials, labor, and equipment automatically update Quantity Sheets, Earned Value Charts, Cost Over Time Charts, Quantity Over Time Charts, and Percent Complete Over Time Charts. It also allows us to proactively monitor bid items that are nearing 75% complete and keep track of any overages. The ORANGE VEST© Application also allows us to generate Field Notifications, manage Punch-Lists, automatically generate Weekly Statement of Working Day reports, and manage Potential Change Orders, Unit Price Change Orders, and Contract Change Orders. Those reports will be available to the City's Project Manager as PDF reports in Box.

ENHANCED OUTREACH TO ENGAGE THE COMMUNITY

Community engagement is at the heart of every successful public project, and we bring a comprehensive approach to ensure Huntington Beach's residents and stakeholders are fully informed and engaged. Through multilingual communications, we connect with the City's diverse population, ensuring accessibility and clarity for all. Our team collaborates closely with the City's outreach staff to develop informative project websites, providing up-to-date details, timelines, and progress reports in a user-friendly format.

To visually communicate progress and milestones, we offer drone footage and time-lapse videos, capturing the transformation of Huntington Beach's infrastructure in compelling ways. Additionally, our use of public meetings and interactive project maps ensures that stakeholders feel heard and involved, fostering transparency and trust. These tailored outreach strategies not only keep the community informed but also build confidence in the City's infrastructure initiatives

I will be the Primary Contact and the individual responsible for entering OE into agreement with the City of Huntington Beach. If you have any questions, please feel free to contact me at: (714) 533-3050 or by email, at: muataya@oe-eng.com.

This proposal shall be binding for 180 days from the its deadline.

Onward Engineering accepts the terms of the City's Master Professional & Specialized Services Agreement, along with the City's Indemnification requirements and insurance coverage requirements, without modification.

We look forward to a successful relationship with the City of Huntington Beach.

Thank you,

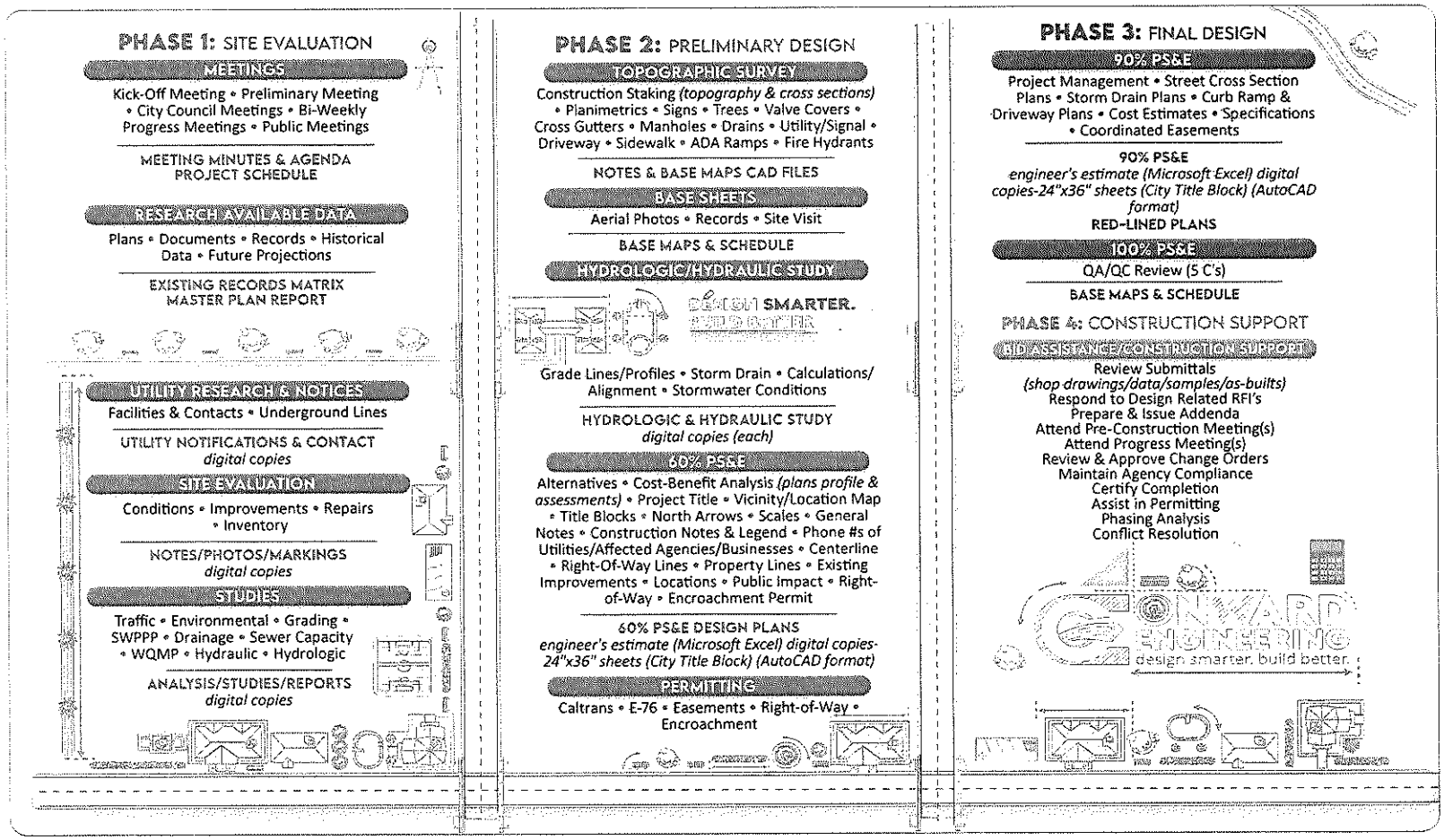
Muhammad Ataya, MPA
Vice President, Onward Engineering

B BACKGROUND & PROJECT SUMMARY SECTION

PROJECT UNDERSTANDING

The Public Works Department in The City of Huntington Beach is seeking qualified, experienced and professional engineering firms for On-Call consulting services. The City seeks services specific to *(A)* Water/Sewer/Storm Water Engineering to include Potable Water Pipelines/Water Wells/Master Plan Updating, Wastewater and Stormwater, Reservoir and Booster Station Engineering; *(B)* General Civil Engineering to include Rehabilitations of Roadways, Alleys, Parking Lots, Bridges and Sidewalks with Curb and Gutter, along with in-house Surveying services (boundary, topographic, centerline, corner, records, etc.) and sub-consulting Geotechnical Investigations; *(C)* Ocean Engineering; and *(D)* Environmental/Water Quality. This proposal addresses A and B. The professional service contract is expected to be awarded May 1st, 2025 for a 3-year term with the option to extend the contract for one (1) year. Below and on the following page are our scope of work outlines, demonstrating an in-depth understanding we have of project process and procedures.

DESIGN ENGINEERING GENERAL SCOPE OF WORK EXHIBIT



CONSTRUCTION MANAGEMENT & INSPECTION GENERAL SCOPE OF WORK EXHIBIT

PHASE 1 PRE-CONSTRUCTION

CONSTRUCTABILITY REVIEW
Review/Recommendations • Comments in Writing • Meeting with DE & PM

RFI COORDINATION
RFI Response Log

BID AWARD SUPPORT
Bid Analysis

MEETINGS
Meeting Minutes • Meeting Agenda • Look-Ahead Schedule Review

SUBMITTAL REVIEW
Submittal Log • Stamped Submittals

PROJECT FILES
Available to the City Project Manager via either City CMIS, or ENTERPRISE

- DCRs & RFIs
- Correspondence/Submittals
- CCOs & Progress Reports
- Lab & Field Test Reports
- Materials Delivery Tickets
- Compliance Certification
- Progress Reports & Photos
- Meeting Minutes
- Guarantees & Certifications
- Affidavits, Leases & Easements

JOB CONTROL DOCUMENTS

- Project Schedule & Bid Schedule
- Bi-Montly Status Reports
- Weekly Statement of Working Days
- Construction Change Orders
- Monthly Construction Payments
- Certified Payroll Records
- Labor Compliance Documents

PHASE 2 CONSTRUCTION

PROJECT SUMMARY
Overview of Completed Work • Photos • Upcoming Work • Closures & Restrictions

SCHEDULE REVIEW & TRACKING
Construction Schedule Updates

PUBLIC OUTREACH
Mailer Resident Notifications • Community Coordination Files • Discussion Notes & Dates • Web Page Updates/Changes

CONSTRUCTION INSPECTION
Review & File Daily Reports • Weekly Working Day • Statement Reports • Daily Photo Diary raw image files & video (digital)

TRAFFIC CONTROL
Traffic Control Notes • Signing & Striping Inspection • Traffic Control Plans Review

JOB SAFETY COMPLIANCE
Safety Infraction Reports

CHANGE ORDERS
Change Order Notes • Change Order Recommendations • Verify Accurate Records/ Quantities • Verify Records Back-Up

LABOR COMPLIANCE
Contractor Certified Payroll Records • CM Payroll Review Notes • Employee Interview Forms • Employee Interview Reports

GEOTECHNICAL INVESTIGATION & MATERIALS TESTING
Testing Reports & Tracking Log • Review Comments & Recommendations

WATER QUALITY SWPPP & BMP'S
Weekly Work Reports

CONSTRUCTION DOCUMENTATION
see job control documents and project files

PHASE 3 POST-CONSTRUCTION

FINAL WALK-THROUGH/INSPECTION
Certify Completion Recommendations

AS-BUILT PLANS
IOR Red-Lines • Contractor Red-Lines • CM Coordinated Records • Final As-Built Documentation

PUNCH LISTS
Preliminary Punch List • Final Punch List

NON-COMPLIANCE ITEMS
Non-Compliance Notes

COMPLETION RECOMMENDATIONS
Completion Recommendations • Final Report of Completion

FINAL PAYMENT REQUESTS
Final Payment Recommendations • CM Payroll Review Notes • Employee Interview Forms • Employee Interview Reports

CONSTRUCTION DOCUMENTATION
Final Project Files (per LAPM) • Final Project Report • As-Built Drawings • Digital Set of Drawings • Construction Files

STATE AUDITING
Books • Records • Documents of Audits • Examinations • Excerpts • Transactions • Claims Analysis • Litigation

ONWARD ENGINEERING
design smarter, build better.

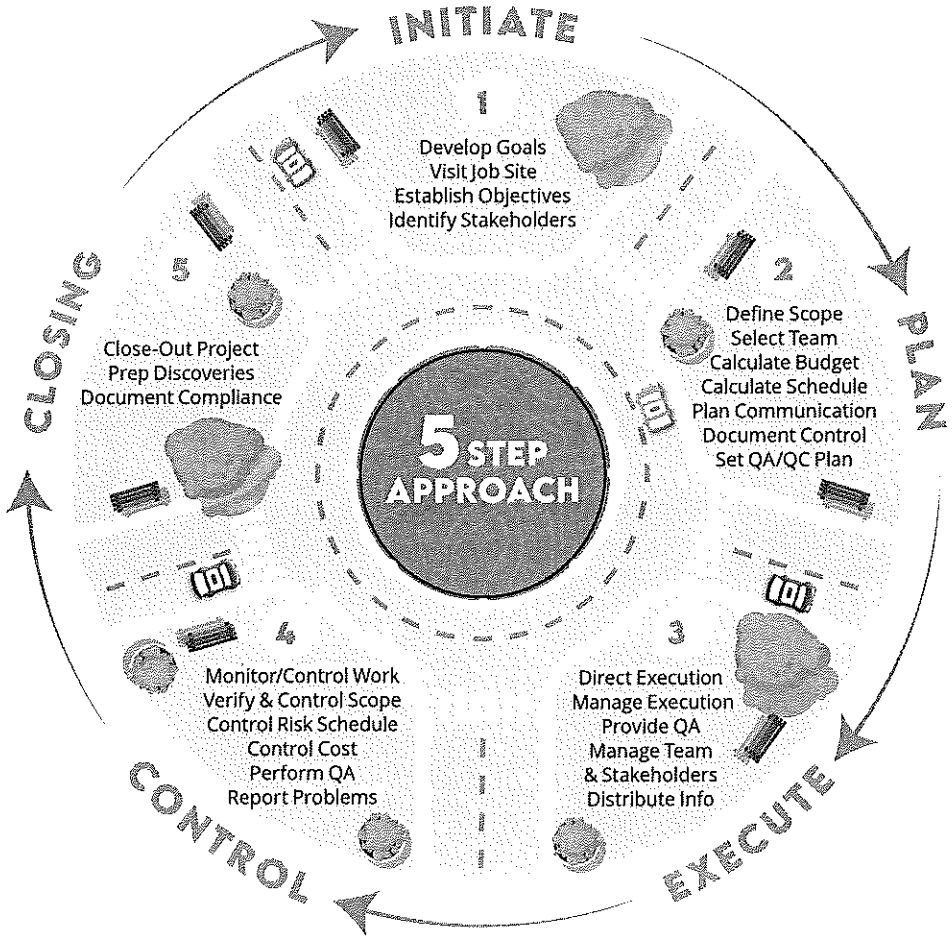
METHODOLOGY SECTION

PROJECT MANAGEMENT

The City of Huntington Beach is requesting Project Management services involving attending meetings; assessing and establishing project goals, strategies, and cost limitations; communicating with the City to keep them apprised of a project's status; providing agendas and minutes for various meetings; preparing and submitting project scheduling progress updates; monitoring and controlling a project schedule, budget and quality; along with proactive general Project Management services. By implementing this approach, we feel that we are pro-actively ensuring quality and the successful management of any given project.

Project Management Institute. These steps correlate to the Project Management Institute Standards for Project Management.

FIVE STEP PROJECT OE'S MANAGEMENT APPROACH



QUALITY POLICY SYSTEM COMPONENTS

QUALITY ASSURANCE & QUALITY CONTROL MANUAL (DESIGN & CONSTRUCTION PROJECTS)	THE STANDARD OPERATING PROCEDURE	THE PROJECT QUALITY CONTROL PLAN (PROJECT & SITE SPECIFIC QC PLAN)

OE will fulfill the City's needs and comply with all statutory and regulatory obligations with emphasis on safety, quality, schedule and maximum cost effectiveness. Our team pride themselves on the quality of the engineering services provided, making great efforts to assure that each project is of the highest quality, exceeding the needs and expectations of our valued Clients.

IMPLEMENTATION APPROACH & METHODOLOGY

The following sections indicate our approach to design engineering projects which illustrates our ability to provide general civil project planning and engineering services on a variety of projects. Our approach is:

ENGINEERING DESIGN

STREET REHABILITATION

A final determination of the rehabilitation methods to be applied are made following a detailed site evaluation, review of any available pavement management study and geotechnical data, development of a preliminary cost estimate for all construction components, and discussions with the City. In addition to traditional rehabilitation methods, OE can assess the potential benefits of incorporating emerging technologies into a design at the City's request. The cost of incorporating these technologies varies; however, they typically result in up-front cost savings in labor and material costs or long-term savings by providing a street with service life comparable to one that has been reconstructed at a reduced price. These emerging technologies include:

RECLAIMED ASPHALT PAVEMENT (RAP)

Options to recycle the material milled from the streets can be evaluated if there is sufficient surface area to be rehabilitated, making this rehabilitation method economically viable. There are several methods that utilize RAP, including: • Hot Recycling • Hot in Place Recycling • Cold Central Plant Recycling • Cold in Place Recycling • Full Depth Reclamation. The determination of which methods may be feasible for the project will depend on street geometry and structural section, project logistics, and available construction budgets.

Studies have historically demonstrated that the inclusion of RAP in the pavement design results in a pavement of similar or better quality than pavement constructed using conventional methods. Depending on the RAP method utilized, cost savings can be realized by reducing the amount of new asphalt cement or binder used, transportation costs, and disposal costs. Cold-mix methods can also result in reduced disruptions to traffic flow due to reduced curing times. Utilizing RAP methods also shows Environmental Stewardship by recycling non-renewable resources, reducing waste to landfills, minimizing air emissions, and conserving energy.

FIBER REINFORCED ASPHALT

Fiber additives can be incorporated into full depth pavement layers, overlays, and slurry seals to improve the tensile strength, crack resistance, and service life of the pavement. Fiber reinforced asphalt has been utilized on projects by numerous Cities and Counties throughout Southern California. Cost savings can be realized by extending the pavement life and by reducing the required pavement thicknesses, as compared to conventional asphalt mixes.

DIAMOND GRIND & OVERLAY

The greatest cost-savings is achieved by utilizing this method. We would first diamond grind the concrete. This would be followed by a crack grouting joint filler. This method can also be looked at so that the City can be comfortable in the choice that they make. The advantage of this approach is that is minimally invasive to homeowners. After construction hours, the site is open to the public and there is minimum clean-up. The cost of diamond grinding is the least cost option, and would allow funds to be diverted to other locations also in need of repair and rehabilitation.

STREET DESIGN IN CIVIL 3D

Street sections are evaluated by converting topographic survey data into a 3D surface in AutoCAD Civil 3D. Street crown heights and cross-slopes are assessed and adjusted as necessary to tie into any curb and gutter elevations. Proposed street surfaces, curbs, and gutters are also created as a 3-D surface. The software allows for surface elevations and slopes to be reported at any given point and it dynamically updates the values when changes are made to the design. The software also allows for the simulation of rainfall for surface run-off flows from street crowns to gutters as intended.

GREEN STREET DESIGN

The primary intention of Green Street design is to capture surface run-off before it enters the storm sewer system to minimize the pollutants discharged into the receiving water bodies (i.e. lakes, rivers, etc.). Green Street features can also reduce the load placed on the storm sewer system and reduce flooding during

peak rainfall. As an added benefit, Green Street features also improve street aesthetics. Some of the design features considered for incorporation into storm sewer systems are summarized below. Suitability of these methods are partially dependent on the infiltration rates of subsoils and anticipated surface runoff volumes.

LANDSCAPING

Careful planning of the vegetation utilized in landscaped areas can have a noticeable effect on stormwater retention rates. Drought resistant plants such as succulents can be incorporated into designs as they have a much greater water retention capacity than other plants. Additionally, the planting of trees or larger plants with broad leaves with high transpiration rates (the rate at which water is drawn into the roots and evaporated from the leaves) can also be beneficial.

BIOFILTRATION & BIOSWALES

Biofiltration utilizes several different layers of media to retain, filter, and disperse stormwater runoff into the subsoil. Components may include plants, mulch, soil, sand/gravel, and perforated pipe. Biofiltration does require some maintenance to prevent bio-clogging.

MODULAR BIOFILTRATION UNITS

Several companies offer modular, prefabricated biofiltration units that can be configured to meet the specific requirements of a project. Typically, these systems utilize proprietary filtering media which may offer higher removal rates of pollutants when compared to traditional biofiltering methods, as well as options to incorporate additional retention space in the form of prefabricated storage modules. While more expensive than traditional biofiltration construction, these modular units provide easier maintenance and access to the filter media to prevent bio-clogging.

INFILTRATION WELLS & TRENCHES

Infiltration wells typically consist of perforated pipe surrounded by clean aggregate and filter fabric with a sand filter base. Infiltration wells can capture a large volume of surface run-off which then can be slowly dispersed into the surrounding subsoil. Proper placement of infiltration wells can reduce surface flow which will also reduce soil erosion rates. Infiltration trenches consist of linear ditches that contain highly permeable soils (aggregate). Infiltration trenches can quickly contain large volumes of water but may not provide the same pollutant removal benefits provided by biofilters due to the lack of biological media and the rate at which the surface runoff disperses into the soil. Infiltration trenches are also prone to clogging, similar to the other filtering methods.

STORM DRAIN CONSTRUCTION

PIPELINES & MANHOLES

With any existing sewer manholes in the vicinity of a proposed storm drain alignment, these will be accessed to verify any existing pipeline alignments and measure invert elevations. Measured elevations would then be used in lieu of as-built information in the event it conflicts with measured values or is not available. Underground utility alignments and appurtenance locations are then added to the base maps using available as-built and topographic survey data. A conceptual alignment and vertical profile is developed based on site constraints and alternative options can be provided if warranted. Potential conflicts with alignment and existing underground utilities are then verified via potholing.

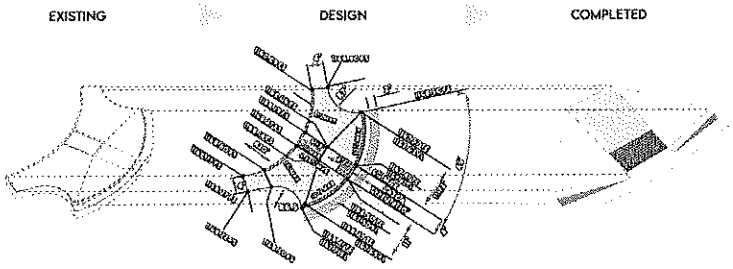
BYPASSING REQUIREMENTS

OE assess's and outlines any bypassing requirements in the Specifications. A bypassing and dewatering plan prior to disturbing the existing storm water flows requires submittal approval by the Contractor. These types of plans are meant to illustrate and explain how flows would be maintained and contained during construction. Storm water must be contained within a closed conduit at all times during construction. Included with the aforementioned plans is a schedule identifying the order in which the system would be redirected at each junction, along with an emergency clean-up plan.

HYDROLOGIC/HYDRAULIC STUDY

Where required, a hydrologic/hydraulic study is conducted and includes calculations for 50, 25, and 10-year storm events. These such studies utilize the data parameters provided in the Master Plan of Drainage. Additional study analysis include street capacity, storm drain capacity, and catch basin capacity calculations. Storm drain maps showing storm drain alignment and storm water conditions before and after construction are also included in the report, if applicable.

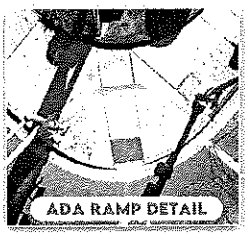
CONSTRUCTION PLANS & SPECIFICATIONS DEVELOPMENT

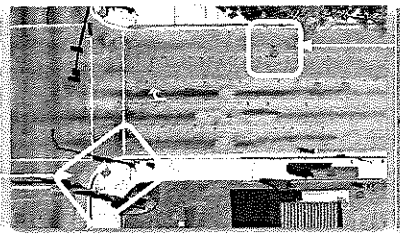


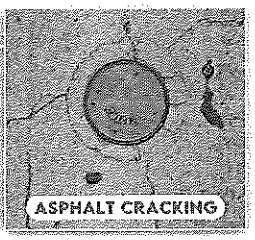
All designs and construction plans are ADA compliant and adhere to the latest editions of the American Public Works Association (APWA) Standard Plans for Public Works Construction, the American Water Works Association (AWWA) Standards, or Caltrans Standard Plans, whichever takes precedence. The latest edition of the APWA Standard Specifications for Public Works Construction "Greenbook", the AWWA Standards, Caltrans Specifications, or the Caltrans Manual on Uniform Traffic Control Devices (MUTCD) are adhered to for the specifications, whichever takes precedence. All signing and striping required are designed in accordance with the Caltrans Standard Plans and the California MUTCD. City of Huntington Beach boilerplate templates would be used when available. All plans are developed using current AutoCAD Civil 3D software. OE's design team has extensive experience with the software and can use it to its full potential. The Civil 3D environment dynamically links objects allowing us to immediately see the effects to material quantities and costs as design changes are implemented. The software also provides us with tools to simulate drainage surface run-off, instantly calculate grades at any given point on the surface of the design, and visualize the designs in 3D as they would appear when constructed. The combination of these tools assists in efficiently and accurately developing the optimal design for each project.

TOPOGRAPHIC/LAND/AERIAL SURVEY

DRONE MAPPING

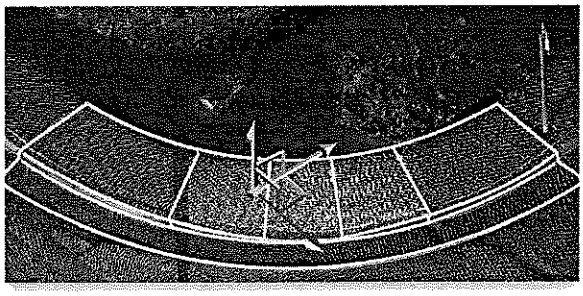






A site assessment is enhanced with the collection of high-resolution aerial photographs using our drone. Our team has three remote pilots licensed by the FAA to fly drones for commercial use. The aerial photographs allow us to accurately denote site surface features, areas of excessive pavement distress, utility notification markings, and street striping, as well as providing us with highly detailed reference data that cannot be achieved through traditional site evaluation methods. Additionally, the images collected are at a higher resolution than images provided by other sources and are ideal for use in the preparation of exhibits. The images below, collected for a previous project, demonstrate the level of detailed information that can be collected using drone technology. The aerial photos collected are consolidated in post-processing to create complete street segments with very high levels of detail.

3D LASER SCANNING



OE collects topography data and photos using a terrestrial laser scanner. The laser scanner is equipped with a high-speed 3D scanning system that measures 500,000 points per second and HDR 360-degree images. The advantage of laser scanning is it provides high density accuracy, fast data collection, and a clear representation of the existing conditions using a colorized point cloud of the site as shown in the sample image on the following page. The 3D point cloud produced allows linework to be quickly drafted and for a more accurate placement of objects for the existing utility appurtenances. Appurtenance geometry such as utility pole, fence and tree diameters are accurately documented as the entire circumferences of the objects are measured rather than the single point which is typically collected from a traditional survey. This allows a precise identification of ADA clearance issues for an accurate design.

CENTERLINE & RIGHT-OF-WAY ESTABLISHMENT

Land surveying for centerline and right-of-way establishment involves precise measurements and documentation to define the path of roads, highways, railways, or other transportation corridors, as well as the boundaries of the land allocated for their construction and maintenance. OE's process involves researching existing maps and legal documents to determine the limits of the right-of-way, property boundaries, and easements. Our field crew then performs a field survey using a combination of GPS tools and conventional survey equipment to determine the centerline alignments and limits of the right-of-way.

Our field crew then locates existing monuments along the corridor and references them to existing recorded maps. This survey is not a full boundary survey, but involves the field work necessary in determining the Centerline of the requested corridor.

CONSTRUCTION STAKING

When performing construction staking, OE conducts a thorough review of the project plans, specifications, and relevant documents provided by the City and project stakeholders. We: •Coordinate with the City, Project Engineer, Contractor, and other parties involved to understand the project requirements and schedule; • Mobilize survey crews equipped with state-of-the-art surveying instruments, including total stations, GPS receivers, and data collectors, to the construction site; • Establish control points and reference benchmarks using precise surveying techniques for accurate georeferencing; • Conduct field surveys to stake out critical construction points, including curbs, centerlines, flowlines, utilities, drainage features, structures, and other project elements, as per the project plans and specifications; • Ensure that all staking is performed in accordance with applicable surveying standards, regulations, and best practices.

MONUMENT PRESERVATION & CORNER RECORDS

Monument preservation and the preparation of corner records are crucial tools for maintaining established markers to be referenced for future land surveys and locating centerlines and property lines. Preparing a corner record in California involves documenting the establishment and location of property corners and centerline monuments for land parcels. Our survey crew meticulously gathers field data using advanced surveying equipment to accurately determine the coordinates and physical characteristics of each monument. This process typically includes researching historical records, conducting field surveys, and verifying monumentation to ensure the reliability and accuracy of the corner record. Once the necessary data is collected, our surveyors draft a detailed corner record document that includes a description of their monument type, dimensions, and relationships to adjacent features. The corner record is then submitted to the City for review and approval, and upon acceptance, it becomes an official record of the property corners for legal purposes. The corner record serves as a vital reference for property owners, land developers, and government agencies in delineating property boundaries and surveyed corners, allowing for clarity and certainty in land ownership, property rights, and reliable survey records.

RECORD OF SURVEY MAPS

This involves documenting survey data to create an official record of property boundaries, land divisions, and other survey-related data. Our Surveyors conduct field surveys to accurately measure and delineate area boundaries and document survey monuments, property corners, and other boundary markers to compile the data into a detailed map that depicts the surveyed boundaries, easements, encroachments, and other relevant features whilst checking conformance with state and local surveying regulations and standards, including specific formatting requirements and technical specifications, and incorporating all necessary legal descriptions, notes, and annotations. We then conduct quality control checks to identify, address and correct discrepancies or inconsistencies identified during the review process to achieve accuracy and integrity of the final map. Once approved, the map is signed and sealed by a licensed surveyor.

TRACT AND PARCEL MAPPING

Tract and Parcel Maps define the subdivision of land into individual lots or parcels. Our Surveyors measure and delineate the boundaries of the tract or parcel, as well as any easements, and then compile the collected data into a comprehensive map that depicts the layout and configuration of the subdivided land. For Tract Maps, which typically involve larger subdivisions, the map includes the layout of streets, blocks, lots, and common areas, as well as easements, dedications, or restrictions. Parcel Maps, on the other hand, focus on smaller subdivisions such as individual parcels with their respective boundaries, dimensions, and legal descriptions, which adhere to strict regulatory requirements and standards established by the California Land Surveyors Act, including specific formatting guidelines, scale ratios, and technical specifications. We also incorporate legal descriptions, annotations, or notes to provide clarity and context to the map. The map undergoes review, QC, and is then signed and sealed. The completed map serves as a legally binding document that defines the boundaries and ownership of the subdivided land parcels.

TEMPORARY CONSTRUCTION EASEMENTS

OE establishes temporary ROW and accesses permissions granted to crews or contractors for a specified period during the construction phase. OE's Survey crew defines the boundaries and terms with a thorough assessment of the site and project plans to determine the areas where temporary access or use of land is necessary. This assessment involves identifying potential obstructions, existing property boundaries, and utilities. OE then works closely with project engineers, developers, and landowners to determine the limits for the temporary easements. This involves drafting legal descriptions and exhibits of the temporary easements. We work closely with the City and Engineer to include the duration of access, permitted activities, compensation (if applicable), and any restrictions or requirements imposed by the landowner or regulatory authorities.

QUALITY ASSURANCE & QUALITY CONTROL

DESIGN ENGINEERING

QA: is a proactive measure verifying that our systems and procedures aligns with City requirements. Design quality is crucial for controlling costs, for dedicating resources toward quality designs, delivers a return on investment and must be adhered to throughout the entirety of the project. The most effective CM approach begins during the design phase. Design quality and clarity minimizes change orders, claims, and costs. Our approach creates well-documented/designed plans and specifications that meet a high standard of quality. This means our designs must be Clear, Complete, Correct, Consistent, and Constructible (the "5 C's"). Providing contractors with high-quality plans allows them to understand exactly what to bid on, minimizing areas of interpretation, and public bidding incentivizes our design engineering team to achieve both quality and clarity in project PS&E. Our primary goal is to achieve the highest project quality by implementing and maintaining accuracy and consistency across all calculations, drawings, and specifications in project documents

PLAN REVIEW

Our documents will go through 3 levels of review prior to each submittal:

1 Initial Peer Review	2 Project Manager Review	3 QA Review

ERROR MITIGATION

This 3 tiered review allows for error mitigation on 3 separate levels of detail:

1 Ground Level	2 Project Manager Level	3 QA Level
Drafting Calculations Document Formatting	Design Compliance Project Intent Compliance	Document Completion Verify "Biddable" Plans

QC: involves conforming all activities with valid requirements, regardless of their overall design process contribution. Good CAD techniques, attention to detail, and accurate and useful plans to the contractor are essential components of quality. Our Staff understands that quality results from a series of processes. It requires a team to perform numerous appropriate activities at the right times during the plan development process. QC is an ongoing approach that emphasizes quality throughout every phase of the design process. At OE, we believe in designing smarter and building better. Our design team adheres to established design policies, procedures, standards, and guidelines in the preparation and review of all design products, ensuring compliance and good engineering practices as directed by the Project QC Plan, with elements that are:

Project Info	*Project Specification*	*Process Control*	*Organization & Communication*	*Design Control*	*Non-Conformity*	*Project Closeout*
Title Number Location Description	PS&E Standards OE Standard	QC Task Listing Coordination Communication	Key Personnel Responsibilities Authority Communication	Design Review Design Plans	Identifying Recording Reporting	Checklist Report Lessons Learned

CONSTRUCTION MANAGEMENT & INSPECTION

1: Our Construction Managers (CMs) and Inspectors diligently review the contractor's weekly and daily schedules before work begins each day. We closely coordinate with the contractor to establish a clear understanding of critical activities and the work to be inspected. **2:** We meticulously track submittals, tests performed, samples taken, non-compliance reports, and inspection/testing associated with non-compliant work through detailed reports. **3:** We provide thorough quality assurance and inspections to ensure that all work meets the required standards and regulations. **4:** We actively monitor the contractor's Quality Control Program to maintain high standards throughout the project.

With our extensive experience in Construction Management and Inspection, we recognize that a robust QA/QC plan, implemented from the project's onset, is key to success. At OE, we follow a comprehensive QA/QC manual that clearly defines roles, responsibilities, expectations, review requirements, and quality standards for all documents and procedures within our organization. Our team's expertise, honed through numerous public works construction projects in Southern California, helps keep our projects on track. We understand the importance of comprehending the entire project timeline, from start to finish, and we excel in creating CPM schedules and managing monthly updates with the responsible agencies.

GOALS FOR MANAGING PROJECT CONTROLS

1: Equip construction teams with the tools and documents needed to accurately estimate, plan, and monitor work to align with the cost, schedule, quantities, and performance targets. **2:** Identify opportunities and potential risks early to minimize/avoid impacts on cost, schedule, quantities, and performance. Our focus is early detection of opportunities or risks, followed by the implementation of alternative solutions to quickly address any issues. **3:** Implement control tools and documents to support Change Management and the preparation/review of change orders for approval. Our Change Management Control system provides early warning and approval control for deviations in engineering costs, material and equipment costs, and construction activities across all phases. **4:** Enhance communication to give the City long-term visibility, enabling proactive and informed decision-making.

Our CMs hold regular meetings with the contractor to discuss the schedule's status, identify potential roadblocks or challenges, review each monthly update and provide feedback or acceptance upon receiving the contractor's submittal. At the start of every project, we tailor the QA/QC program and work plan to meet the project's specific needs. Onward Engineering's approach to project controls involves conscious planning and execution of the work, along with continuous monitoring of cost, schedule, quantities, and performance, to achieve estimating, cost control, and scheduling objectives.

SURVEYING QUALITY ASSURANCE & QUALITY CONTROL EXHIBIT

Quality Assurance (QA) and Quality Control (QC) in topographic land surveying are critical to ensuring accurate, reliable, and high-quality survey data. By integrating these QA/QC procedures, topographic land surveys maintain high accuracy, reducing costly errors and ensuring compliance with industry standards.

OE's typical implementation include the following:

QA

STANDARD OPERATING PROCEDURES (SOPS)

Establishing protocols for survey methods, instrument handling, and data recording.

Ensuring adherence to industry standards (e.g., ISO 9001, ASTM, or local regulations).

PROJECT PLANNING & PRE-SURVEY CHECKS

Conducting reconnaissance to identify control points, obstacles, and environmental factors.

Reviewing City specification and regulatory requirements.

TRAINING & CERTIFICATION

Ensuring that surveyors and technicians are properly trained in using survey instruments and software.

Continuous education on new technologies and methodologies.

CALIBRATION & MAINTENANCE OF INSTRUMENTS

Regularly calibrating total stations, GPS/GNSS receivers, and levels to ensure accuracy.

Performing daily instrument checks before use in the field.

DATA COLLECTION PROTOCOLS

Defining accuracy requirements for different survey types.

Using redundant measurements (e.g., re-measuring critical points) to verify reliability.

RISKASSESSMENT & MITIGATION

Identifying potential sources of errors (e.g., atmospheric conditions, human error).

Implementing strategies to minimize risks (e.g., using differential GPS for high accuracy).

QC

FIELD DATA VERIFICATION

Conducting redundant measurements on critical points to detect discrepancies.

Cross-checking field data with existing maps or previous surveys.

POST PROCESSING & ERROR CHECKING

Applying least squares adjustments and other error-reduction techniques.

Using software tools (e.g., GIS, AutoCAD Civil 3D) to analyze data consistency.

BENCHMARKING AGAINST CONTROL POINTS

Comparing new survey data with known control points to detect deviations.

Ensuring closure errors in traverse surveys meet specified tolerances.

INDEPENDENT REVIEW & CROSS CHECKING

Having a senior surveyor or third party review data before finalizing reports.

Verifying accuracy through independent recalculations.

DATA DOCUMENTATION & REPORTING

Keeping detailed logs of field notes, environmental conditions, and instrument settings.

Preparing error reports and corrective action plans if deviations are detected.

CITY REVIEW & FINAL ADJUSTMENTS

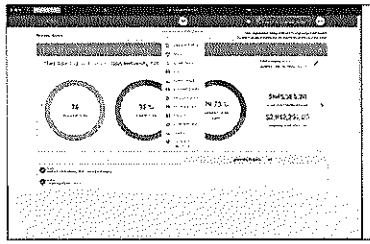
Sharing preliminary results with the City for verification.

Making final corrections before submitting official deliverables to the City.

ORANGE VEST APPLICATION

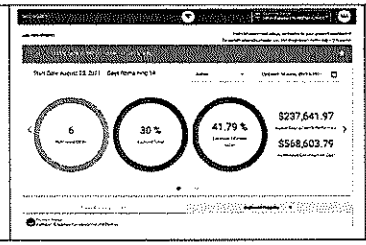
ORANGE VEST© is a proprietary tool (web & iOS app) which streamlines and organizes construction documents, built with the inspection team in mind. Orange Vest allows the CM and Inspector to document work in real-time, and to have field quantities, materials, labor, and equipment automatically update Quantity Sheets, Earned Value, Cost Over Time, Quantity Over Time, and Percent Complete Over Time Charts. It also allows the team to proactively monitor bid items that are nearing 75% complete and keep track of any overages. The ORANGE VEST© application allows users to generate Field Notifications (Incident Reports), manage Punch-Lists, automatically generate Weekly Statement of Working Day reports, and manage Potential, Unit Price and Contract Change Orders. For CMs, it allows users to review and approve/reject submittals and respond to RFIs.

LIST OF FEATURES



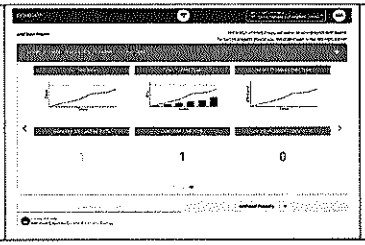
- Project Dashboard;
- Comprehensive Daily Reports;
- Weekly Statement Working Days;
- Product Quantities;
- Progress Payments
- Change Order with Team Data
- Project Files Accessibility
- Sign/Countersign Reports
- Field Notice/Incident Report
- Submittals & Reviews
- RFI Prepare & Response

DASHBOARD AT A GLANCE



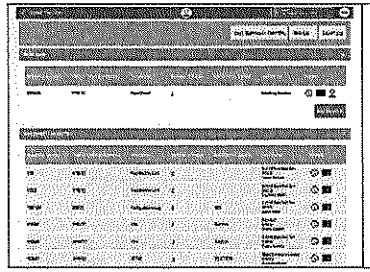
- Project Progress Review *(ie. days remaining);*
- Daily Reports Check/Count;
- Time Duration;
- Automatic Earned Value Updates;
- Weather Forecast *(hour-by-hour);*
- Charting Tools.

DASHBOARD IN-DEPTH



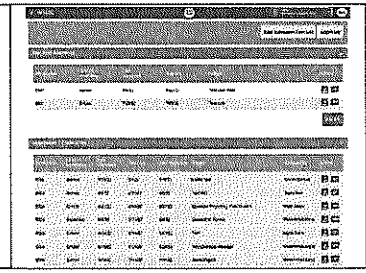
- Cost Over Time Chart *(viewed for project as a whole, or up to 3 bid items at a time specifically);*
- Quantity Over Time Chart *(shows cumulative & day/week/month totals as a whole or individual bid items);*
- Percent Complete Over Time Chart *(viewed for project as a whole, or up to 3 bid items at a time specifically).*

RFI MODULE



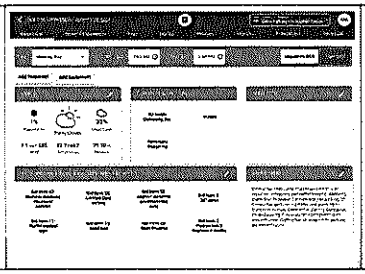
- Centralized Platform for Q & A;
- Direct & Immediate Response;
- Submit RFI as User or Public Link;
- Mark Normal/Expedited/Critical;
- Attach A PDF;
- Notify The CM & PM Via Email;
- Prioritize Alerts to the PM/CM;
- Automated PDF with RFI Info;
- Automatic PDF Answer Updates;
- Automatic PDF RFI Logging.

SUBMITTAL MODULE



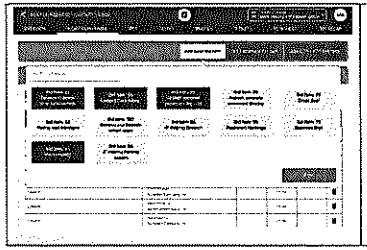
- Submit Materials & Processes;
- Re-Submit Indefinitely;
- Automatic Submittal Notifications;
- PDF Markup & Tools;
- Status Options: *Approve-No Exceptions Taken, Approve-Make Corrections Noted, Reject-Revise & Resubmit, Reject-Submit Specified Item;*
- Auto-Generated Cover Page;
- Submittal Tracking History;
- Digital Stamp & Signature;
- Auto-Generate PDF Submittal Log.

DAILY REPORTING



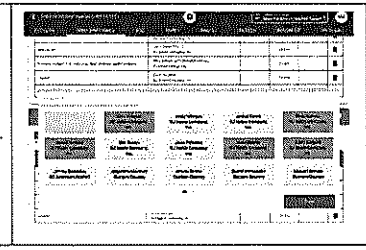
- Daily Inspector Information;
- Work Performed Review;
- Track Labor;
- Track Equipment;
- Track Quantities Completed;
- Potential Change Orders (PCO);
- Notes;
- Tickets;
- Punch List;
- Weekly Recap.

BID ITEMIZATION



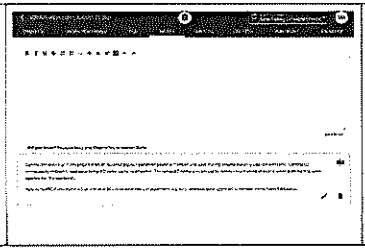
- Add Bid Items;
- Bid Items Pulled from Bid Sheet;
- Uploaded as a CSV file;
- Add Labor & Equipment Hours;
- Add Quantity Performed that Day.

PROJECT CLASSIFICATIONS



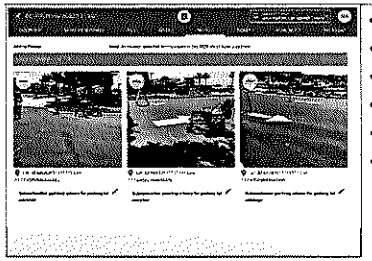
- Assign Labor & Equipment;
- Filters Personnel & Equipment According to Classification;
- Name & Description Entry Stored for Later Use;
- Classification Person Search Equipment.

NOTATION



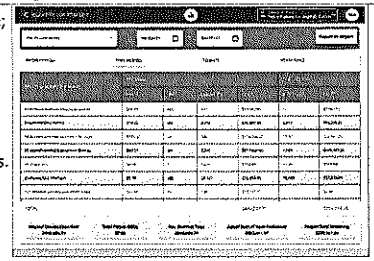
- Formatting & Rearranging Options;
- Voice-to-Text Dictation;
- Stores Notes for Referencing;
- Stores Notes for Later Editing;
- Specific Bid Item Assigning; General Notes.

PHOTOS MANAGEMENT



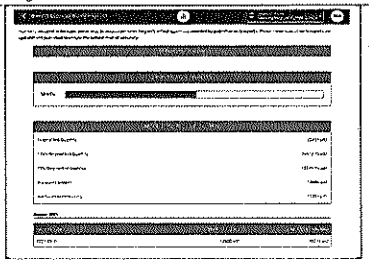
- Camera & Photo Capture Capable;
- Photo Library Upload;
- Add, Caption & Arrange Photos;
- Unlimited Photo Capture;
- Select Those for Daily Reports;
- Automatic Save Remaining Photos.

QUANTITY MODULE



- Lists Quantities-Any Period of Time;
- Options: Prior/To Date/Remaining;
- Drop-Down Menu of Bid Item Breakdown.

QUANTITY MODULE BREAKDOWN



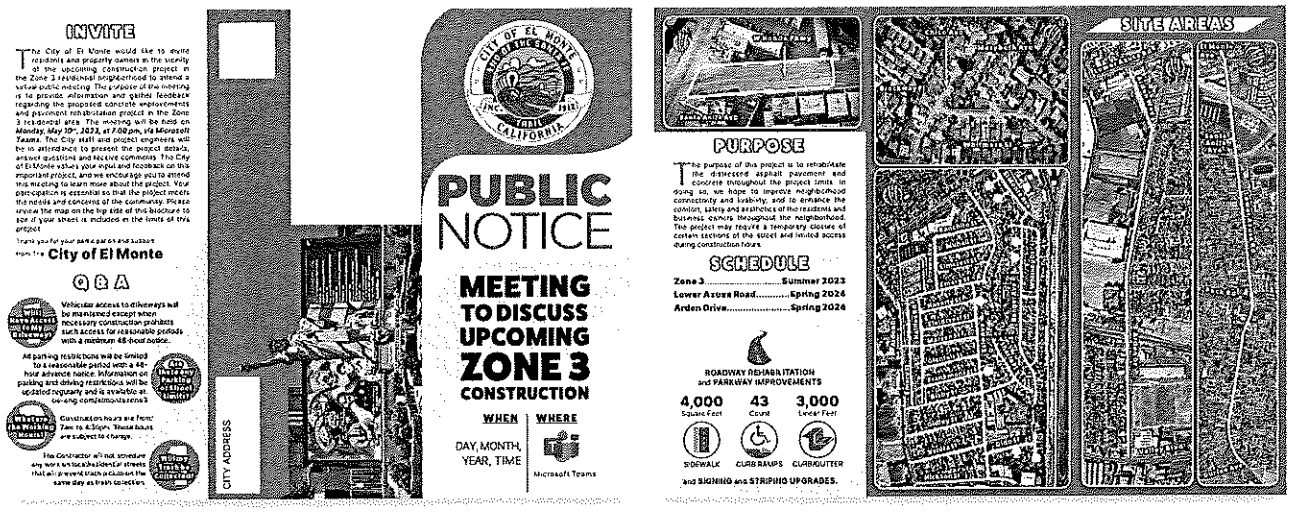
- Lists Quantities Performed for any Selected Period;
- Daily Breakdown of Daily Report Location & Bid Item Details.

PUBLIC OUTREACH

At OE, we believe that effective public outreach is at the heart of every successful capital improvement project. It's not just about construction; it's about people and communities. We know that keeping everyone informed, engaged, and supportive makes a world of difference. Minimizing disruptions, gaining public support, and maintaining a positive image throughout the project are crucial. That's why we place a strong emphasis on public outreach. By sharing project information with those affected, we build trust and open lines of communication. This approach leads to fewer complaints, safer work environments, and a smoother construction process. We understand the value of making the community feel involved and respected. Through proactive outreach, we turn potential challenges into opportunities for collaboration and understanding. It's about fostering a positive experience for everyone involved and bringing the human element of our projects to life.

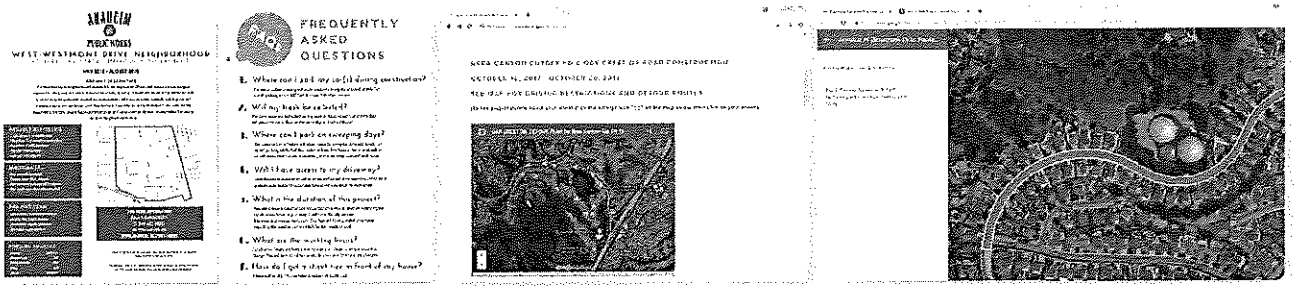
PUBLIC NOTICES

At OE, we take pride in crafting and designing public notices (PDFs) with essential project information and updates for affected stakeholders. We handle this task on behalf of the City, ensuring that the community remains informed. Contractors' notices are often bland and hard to read or understand. In contrast, our notices are crafted to be clear, engaging, and informative, making sure affected stakeholders are aware of all the project details. These notices provide accessible information, helping residents stay informed about any driving or parking restrictions and other important updates. By making the community excited about the project's outcomes, we foster a sense of involvement and cooperation, making the construction process smoother for everyone.



INFORMATIVE WEB PAGES

At Onward Engineering, we design and maintain informative web pages hosted on a separate sub-domain linked directly to the City's website. This approach allows us to efficiently produce and update all public notices (PDFs), project information, updates, and dynamic maps without burdening City resources. Our web pages feature enhanced public notices prepared for the contractor on behalf of the City. These notices are crafted to be clear, engaging, and easy to understand, ensuring residents are well-informed about the project. The web pages provide a convenient way for residents to access important information, follow driving or parking restrictions, and stay updated on the project's progress. By making information readily accessible, we help the community stay involved and excited about the project's outcomes.



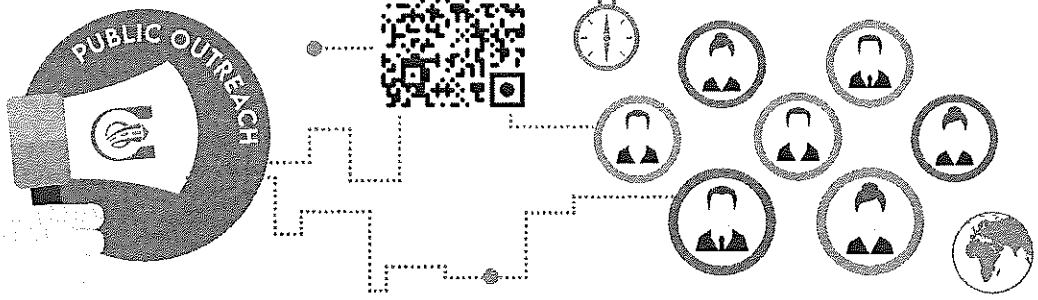
TELEPHONE HOTLINE

Onward Engineering provides the City with a dedicated telephone hotline for the entire project lifecycle. This hotline allows for easy tracking, generation, and saving of call logs, including caller information, time of call, and voice-mail. When callers use the hotline, they are greeted by a brief pre-recorded introduction followed by a vocalized menu offering helpful project information such as street closures, parking restrictions, and schedule changes. Callers also have the option to be routed to a specific staff member for more detailed assistance. Our hotline system is customizable and works seamlessly even if different phases of the project are handled by various consultants, as the contact person can be updated as needed. This system reduces headaches for the City and provides peace of mind to the community, ensuring that they can voice their concerns and obtain information with a simple phone call.

DYNAMIC MAPS

At OE, we have the tools and expertise to create interactive and dynamic maps that keep the public informed. Stakeholders can access these maps online to get real-time updates on detours, phasing, temporary parking, street closures, and general project limits. Our Construction Managers communicate changes to the schedule in real-time, allowing us to update the site before the contractor even leaves for the day. We manage and update the site and its content in real-time, in accordance with City requirements. This approach provides the City with convenient, easy-to-access content for oversight and allows for the effective dissemination of valuable information to the community. Our dynamic maps ensure that everyone stays informed and up-to-date on all aspects of the project.

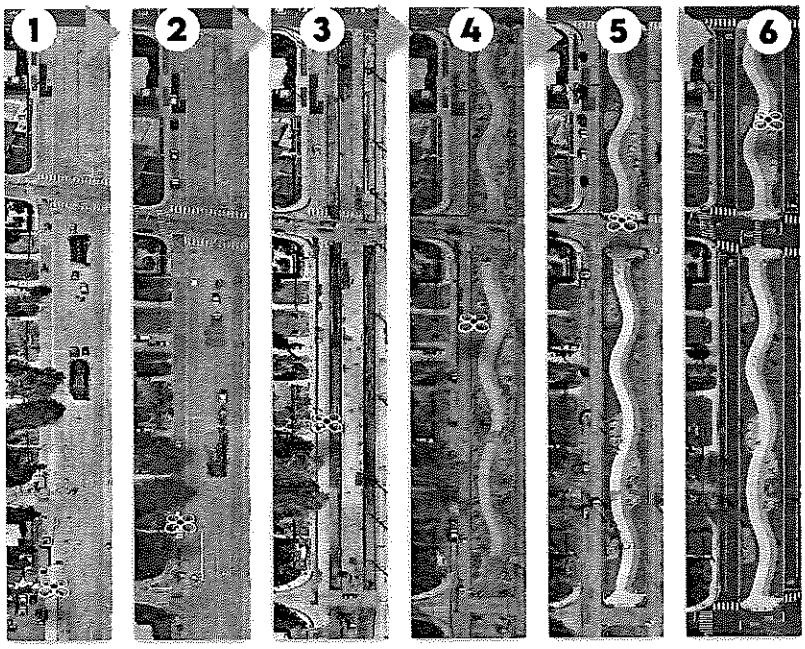
To view project pages and map, please visit:
www.oe-eng.com/dbarea5



AERIAL DRONE PHOTOS & VIDEOS SERVICES

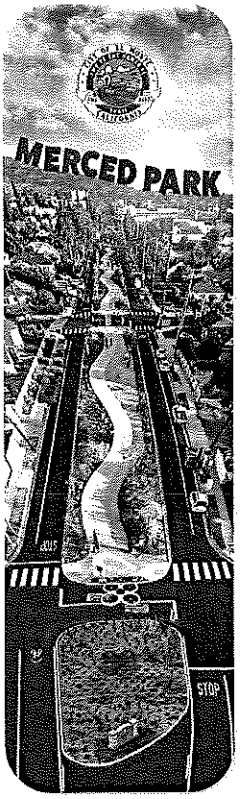
Onward Engineering makes full use of our drone technology. In addition to its beneficial use in site conditions analysis, record keeping, and map making, we also utilize our Drone tool and the photos and videos captured to generate presentation and promotional media for our Clients. The following are samples of the materials we've created with our drone data captured for the City of El Monte's Merced Park Construction Project:

TIME LAPSE DISPLAY



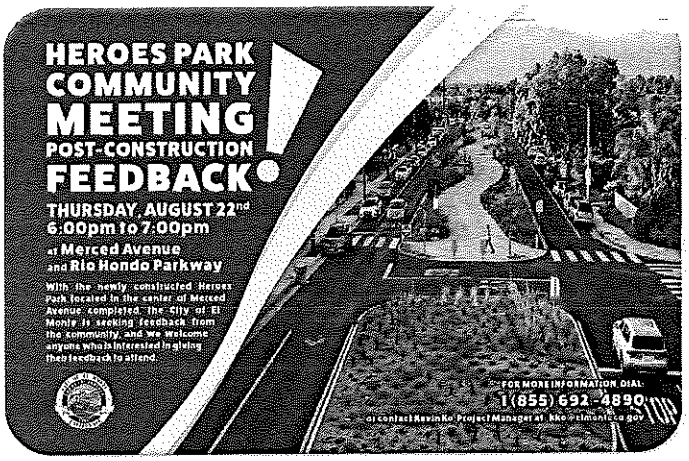
If following the progress of a project is of interest, drone aerial image captures can be generated into a time-lapse video or a simple layout as a sequence of time periods (as shown above) to where the progress of the project can be fully realized, tracked, analyzed and understood.

GRAND SCALE DISPLAYS



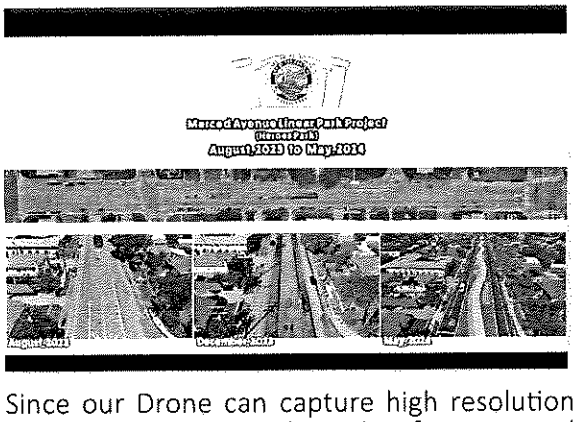
Aerial photos captured by our drone can make for spectacular depictions of scenery for use in media productions such as posters, covers, even billboards. A wide range of options are available to fully promote and share what our drone can capture.

PROMOTIONS & INFORMATION DISTRIBUTION



Any print material can be made utilizing the photos captured by our drone, such as the public notice flier mailout depicted above.

VIDEO PRODUCTION



Since our Drone can capture high resolution video format, compiling the footage and editing it is a simple method in delivering quick and understandable content for your audience.

PROJECT CONTROLS

Effective project controls are essential for managing and delivering successful projects. At OE, our project controls framework encompasses a range of activities and processes designed to ensure that projects are completed on time, within budget, and to the required quality standards. Below are the key components of our project controls approach.

DESIGN KICK-OFF MEETING & PROJECT MEETINGS

The kickoff meeting is a critical first step in setting the stage for a successful project. During this meeting, we:

- *Establish project goals and objectives as well as any technical requirements.*
- *Define roles and responsibilities.*
- *Review the project schedule and milestones.*
- *Discuss potential risks and mitigation strategies.*
- *Set expectations for communication and collaboration.*

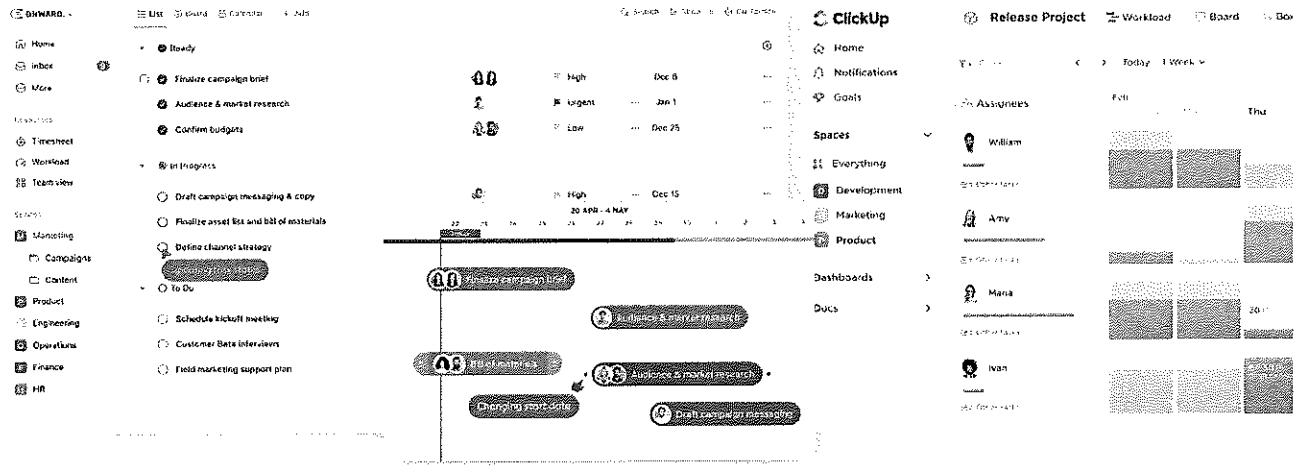
Regular project meetings are held to monitor progress, address any issues, and keep all stakeholders informed. These meetings facilitate open communication, ensuring that everyone is aligned and working towards the same goals.

SCHEDULE CONTROL

Monitoring the project schedule is vital to identify any delays early and take corrective actions. Our approach includes:

- *Regularly updating the project schedule.*
- *Comparing planned progress with actual progress.*
- *Identifying the root causes of any slippage.*
- *Implementing corrective measures to get the project back on track.*

We hold two internal meetings weekly: one for status updates and the other for resource allocation. These meetings help us stay aligned, address any emerging issues promptly, and ensure that resources are used effectively to keep the project on track.



EARNED VALUE & PLANNED VALUE REPORTING

To support this process, we prepare Earned Value (EV) Reports and Planned Value (PV) Reports on a monthly basis. These reports help us:

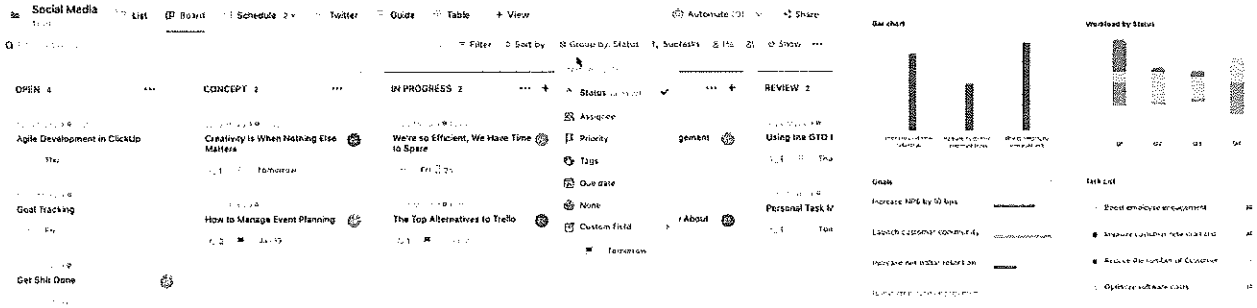
- *Assess "Schedule Health" by comparing Value of work planned (PV) to work actually completed (EV).*
- *Proactively identify schedule variances and areas that may require corrective action.*
- *Provide transparency and insight into project progress for all stakeholders.*

By proactively tracking schedule slippage and using EV and PV reports, we minimize delays and keep the project moving forward.

AGILE PROJECT MANAGEMENT

We also use ClickUp to monitor and track workload and resources. ClickUp enables us to manage tasks, allocate resources efficiently, and monitor project progress in real-time. Various views within ClickUp help us manage different phases of the project, such as utility notifications and research. It also supports views like Task List, Gantt Chart, and Kanban Boards. This tool supports our Agile Project Management (PM) practices by allowing us to:

- *Break down projects into manageable tasks, sub-tasks and checklists.*
- *Adjust priorities dynamically based on project needs.*
- *Facilitate collaboration and communication among team members.*



STATUS UPDATE REPORTS

OE provides comprehensive status update reports to keep all stakeholders informed about the project's progress. These reports ensure transparency and enable informed decision-making and include:

- *A summary of completed tasks and milestones.*
- *An overview of upcoming activities.*
- *Identification of any issues or risks.*
- *Recommendations for corrective actions.*
- *Updated project timelines and forecasts.*
- *Access to ClickUp for real-time collaboration with the City.*
- *Inclusion of Earned Value (EV) and Planned Value (PV) reports for transparent progress tracking.*

DOCUMENT CONTROL

Proper document control is essential for maintaining project integrity and ensuring that all project documents are accurate and accessible. Our document control practices include:

• Utilizing Box Enterprise as our document management system; • Operating on a HIPAA-certified, enterprise-grade, cloud filing system; • Mapping all of the City's standards, folder structures, templates, and document formats for implementation; • Storing all documents on our cloud-based Box Enterprise account; • Allowing secure, remote access and review of our entire filing system by City staff; • Ensuring compliance with project requirements and Caltrans' LAPM filing requirements; • Enabling City staff to select passwords for access to view, upload, or download any project files (e.g., PS&E, schedules, utility logs, field observations, daily reports, photo diaries) without changing the City's existing IT framework; • Providing flexible access to project files from anywhere and on any device, and enabling access to select files for other collaborators.

Effective document control helps prevent misunderstandings and ensures that everyone is working with the latest information.

COST CONTROL

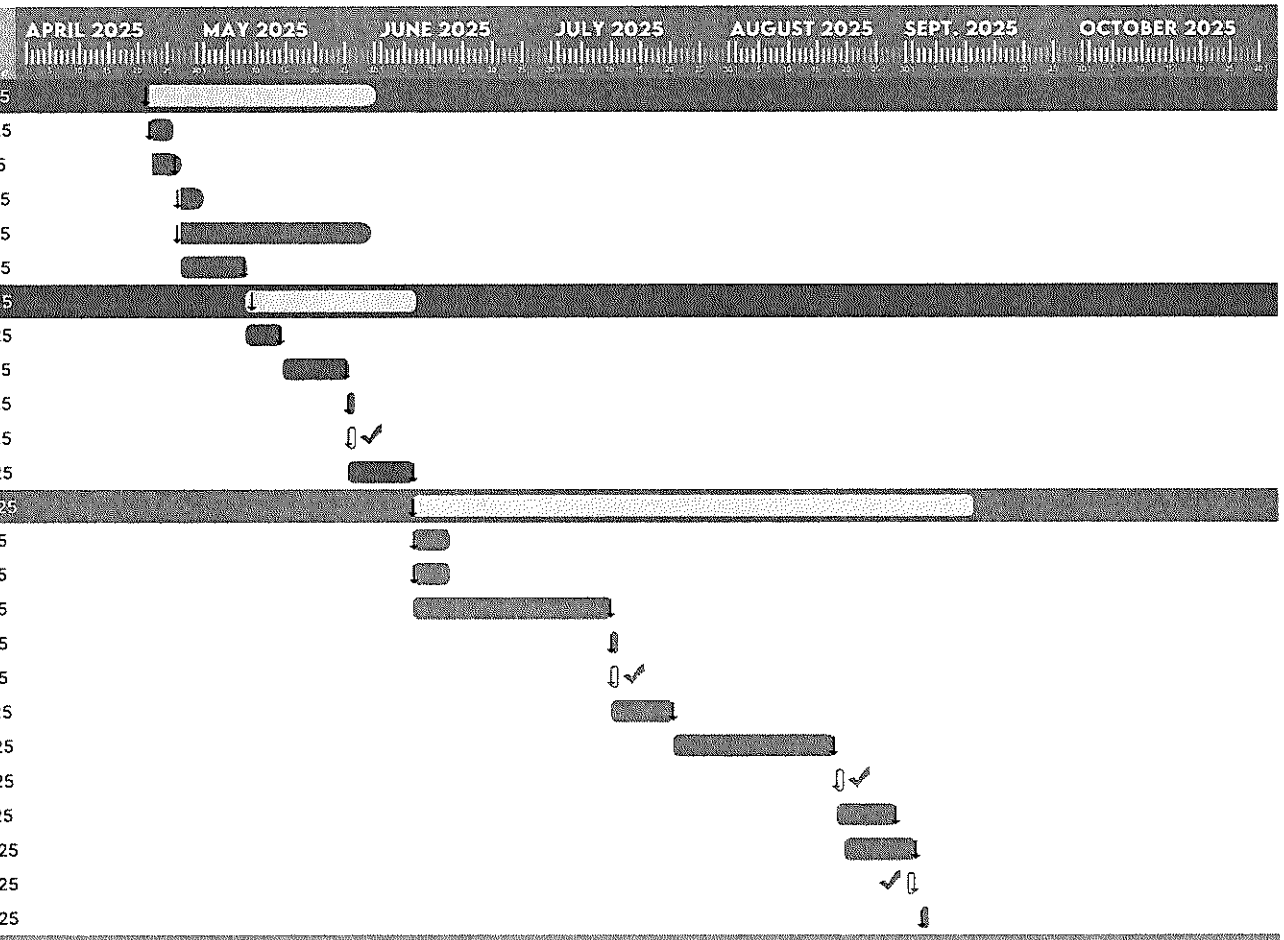
One of our core corporate philosophies is honesty and transparency, and costs and budgeting are no exception. Our cost control measures include:

- *Using advanced financial software to prepare invoices and reports.*
- *Allowing the City to request billing statements at any time during the billing cycle.*
- *Providing real-time reports of hours and expenses, enabling the City to easily compare proposed resources to resources used and/or remaining.*
- *Ensuring the budget is reliable and accurate, and falls within the City's allotted budget.*
- *Demonstrating flexibility in reducing project costs or staying within the budget.*

PROJECT SCHEDULE GANTT CHART

We have included a sample schedule below to illustrate our method of scheduling.
As this solicitation is an On-Call proposal, there is thus no specific project, and therefore tasks and timelines do not yet exist to be entered.

ID	Task	Duration	Begin	Complete
1	**SITE RESEARCH**	36	4/29/25	6/17/25
1.	Kick-Off Meeting	1	4/29/25	4/29/25
2.	Research & Review Available Data	5	4/30/25	5/5/25
3.	Site Evaluation	5	5/6/25	5/12/25
4.	Geotechnical Investigation	30	5/6/25	6/17/25
5.	Topographic Survey	10	5/6/25	5/19/25
2	**PRELIMINARY DESIGN**	27	5/20/25	6/26/25
6.	Base Sheets	7	5/20/25	5/28/25
7.	30% Plans and Estimate	10	5/29/25	6/12/25
8.	Utility Research & Notification (1st Notice)	1	6/13/25	6/13/25
9.	Submit 30% Plans and Estimate to City	1	6/13/25	6/13/25
10.	City Review of 30% Plans And Estimate	10	6/13/25	6/26/25
3	**FINAL DESIGN**	87	6/27/25	10/24/25
11	Hydrologic/Hydraulic Study	5	6/27/25	7/2/25
12	Utility Potholing	5	6/27/25	7/2/25
13	60% PS&E	30	6/27/25	8/7/25
14	Utility Research & Notification (2nd)	1	8/8/25	8/8/25
15	Submit 60% PS&E to City	1	8/8/25	8/8/25
16	City Review of 65% PS&E	10	8/8/25	8/21/25
17	90% PS&E	25	8/25/25	9/25/25
18	Submit 90% PS&E to City	1	9/26/25	9/26/25
19	City Review of 90% PS&E	10	1/26/25	10/8/25
20	100% PS&E	10	10/9/25	10/25/25
21	Submit 100% PS&E	1	10/25/25	10/25/25
22	Utility Research & Notification (Final Notice)	1	10/24/25	10/24/25
4	**CONSTRUCTION SUPPORT**	1	TBD	TBD
23	Construction Support Services	1	TBD	TBD



D STAFFING

ORGANIZATIONAL CHART

PRINCIPAL-IN-CHARGE

MAJDI ATAYA – PE

BS: Civil Engineering, CSULB, 1981
MPA: All Coursework, CSULB, 1993
PE: Professional Engineer #39392
LA HABRA: (former) Deputy Director of Public Works & (former) City Engineer
CALTRANS CERTIFICATE: Resident Engineer's Academy (32 hrs.), CLTAP

PUBLIC OUTREACH/ADMINISTRATION

MUHAMMAD ATAYA – MPA

BS: Political Science & MPA: Public Administration, California State University, Long Beach, 2008/2010
CERTIFICATE: Construction Management, UCLA, 2013

PROJECT & CONSTRUCTION MANAGERS

DELFINO "CHINO" CONSUNJI – PE

BS: Civil Engineering, University of the Phillippines, 1986
PE: Professional Engineer #57908
•Engineering Management, Construction, UCLA Extension, 1991
•Building Construction and, Construction, AOTS Japan, 1990
•Inland Navigation & Management, IFIT Belgium, 1989

IGNACIO OCHOA – PE, TE, PTOE

BS: Civil Engineering, CSULB
PE: Professional Engineer #35217
TE: Traffic Engineer #1183
PTOE: Traffic Operations Engineer (former) Deputy Director/Chief Engineer

JUSTIN SMEETS – PE, PLS, QSP

BS: Civil Engineering, CSUF, 2007
PE: Professional Engineer #78314
PLS: Land Surveyor #9293
QSD: SWPPP Developer #00852
OCTA (prior) CERTIFIED Pavement Analysis & Rehabilitation Recommendations.

JOE DYER – PE, TE

BSCE: Civil Engineering, Ohio State University, OH
MS & PHD PROGRAM: Virginia Polytechnic & State University, VA
PE: Professional Engineer #31626
TE: Traffic Engineer #1200

LUDWIG "LUDY" SMEETS – PE

BS: Civil Engineering, CSULB, 1979
MA: Military Science, A&M, 1990
US ARMY: Command & General Staff College, 1989
PE: Professional Engineer #37221
MEMBER: APWA, ASCE, NSPE, SAME

RASHID "RASH" SYED – MBA

BS: Civil Engineering, Hyderabad Polytech
BA: Public Administration, CSULB
MBA: Public Administration, CSULB

DONALD HOPPE – PE

BS: Civil Engineering, Cal Poly, Pomona
MA: Public Administration, CSUF
PE: Professional Engineer #34820
Technical Steering Committee

QE/SURVEY TEAM

SUB-CONSULTANT

GROUP DELTA Geotech/Materials Testing

JAMIE BUENO, PE
Associate Engineer
(310) 320.5100
370 Amapola Ave, Suite. 212
Torrance, CA 90501

ECORP, INC. Environmental Consulting

JESUS OLMOS
Environmental Scientist
(909) 307-0046
folmos@ecorpconsulting.com
215 North 5th St., Redlands, CA 92374

PROJECT ENGINEERS

RYAN DENNIS P.ENG.

BS: Civil Engineering, University of Calgary, 2005
MINOR: Environmental Engineering, University of Calgary, 2005
P.ENG: Professional Engineer (Canada)
TECH: AutoCAD/Civil 3D

DAYTON LOWE

COURSEWORK: Civil Engineering, Construction Management & Technology, Broward College
OCTA (prior) CERTIFIED: Pavement Conditions Analysis
TECH: AutoCAD/Civil 3D

DAVID LORIA

AS: 3D Computer Animation, Brooks College
FAA LICENSED #4098277: Drone Pilot
LEICA GEOSYSTEM: Cyclone Point Cloud
EOS SYSTEMS: Analysis/3D Modeling
TOPCON: Scan Master Point Cloud
AUTODESK: AutoCAD/Civil 3D
CERTIFIED: + Revit, 3D Max, Recap

ERIC URSO – LSIT

BS: Civil Engineering, The Citadel Military College of South Carolina
MS: Geographic Information Science, California State University, Long Beach
LSIT #9297: Land Surveyor-in Training
TECH: Survey CAD; AutoCAD/Civil 3D

JASON TO

BS: Civil Engineering, CSUF
EXPERIENCE: Survey; Reinforced Concrete/Structural Steel Design; Soil Mechanics
TECH: AutoDesk/AutoCAD/ArcGis/RAM

LEONARD PHUNG

BS: Civil Engineering, University of Transport, Ho Chi Minh, Vietnam
DESIGN: Roadway; Drainage; Slope Stability
TECH: AutoCAD/Civil 3D; InfraWork

HENRY LU

BS: Civil Engineering, University of Transport, Ho Chi Minh, Vietnam
DESIGN: Roadway; Drainage; Slope Stability; Utility
TECH: AutoCAD/Civil 3D

CONSTRUCTION INSPECTORS

ROBERT VALLE – QSD, QSEC

QSP: Qualified Stormwater Pollution Prevention Plan Practitioner #26670
CISEC CERTIFIED: Inspector for Sediment & Erosion Control #2075
30 YEARS: Public Works Inspector County of Orange

JEFFREY EATON – QSP

3 YEARS: Course Studeis & Computer Science, California State University, Fullerton, 2004
AS: Construction Management, Santiago Canyon College
QSP: Qualified Stormwater Practitioner

MICHAEL NGUYEN

AA: Industrial Technology, Cal Poly, Pomona
60 UNITS: Mechanical Engineering, Cal Poly, Pomona
16 YEARS: Public Works Inspection, County of Orange

CHRIS BOREN

LEVEL I & II: Public Works Inspector
EXPERIENCE: Federal Funding - Capital Improvement Projects - Encroachment Permits - Caltrans Coordiination -Nuclear Densometer

ARMANDO R. CASTANEDA

AC

CERTIFICATES: Inspection Workshop, American Public Works Association; Educational Workshop Series, MSA; Valve Trouble Shooting/Wire Tracing/Water Management/Controller Programming, CLCA; Hazardous Waste Operations & Emergency Response, Public Safety Council
COURSEWORK: Soil Management/ Landscape Design, CalPoly, Pomona/Mt. San Antonio College

RUBEN ROCHA

COURSEWORK: Business Admin/ Management, Mount San Jacinot College, Menifee, CA.
CERTIFIED: Traffic Signal/ADA Ramp Inspector; Public Works Inspector, County of Orange; Field Tech. & Aggregate Test Lab Tech Level 1 & Trenching & Excavation Awareness
CALTRANS: No's.125/216/231/504/518 /523/524/533/539.

KEVIN GREEN

BA: Psychology, Sociology & Business, La Sierra University
CERTIFIED: SWPPP & Radiation Safety Training: 10 & 30 MSHA & Nuclear Gauge, OSHA; 40 Hour Training Certification; QSD & P/ Rapid Set Concrete/Trenching & Shoring Safety/Confined Workspace/ Asbestos Awareness

TIMOTHY STANLEY

COURSEWORK: Public Works Inspection, Business Administration/ Computer Tech.
CALTRANS CERTIFIED: 375: AC Pavement In-Place Density | 201: Sample Preparation | 539: Concrete Sampling | 533: Ball Penetration

JIM PRIZIO

JP

SUPERINTENDENT: General Contractors
COMPLIANCE: SWPPP/Traffic Control/Safety

JORGE ROQUE

DEGREE: Civil Engineering, Instituto Tecnologico Centro Americano, El Salvador

RON OSTENDORF

EXPERIENCE: Caltrans Coordination, Trenching, Traffic Control & Safety Training

RON OSTENDORF

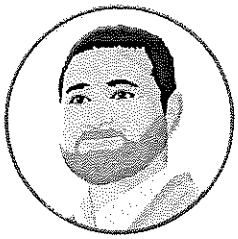
COURSES: Public Works Estimation & Interpretation, Citrus College

JOE ZAMARRIPA

CERTIFIED: Public Works Inspection, Santiago Canyon College

STATEMENT: *Construction Manager assigned to a project will be the day to day contact for the City. Both Management Contact and Construction Manager assigned to a project will not be removed or replaced from that project without the written consent of the City.

KEY PERSONNEL RESUMES

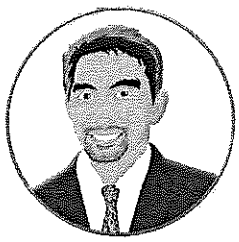


MAJDI ATAYA, *PE* QA/QC MANAGER

43 YEARS OF EXPERIENCE

EXPERIENCE

FY 2023-24 Pavement Management Program Implementation, *Glendale*
FY 2022-23 Annual Pavement Rehabilitation Project, Phases 1-4, *Whittier*
Water Main Replacement at Halstead Drive, Hidalgo Avenue & Main Street, *Alhambra*
Niguel Road Street Rehabilitation Project, *Laguna Niguel*
Ada Access Ramp Improvements, Phases 13-17, *Lake Forest*
Sidewalk Gap Closure at East Chase Drive & Smith Avenue, *Corona*
Randall Avenue Street Improvement Project, *Fontana*

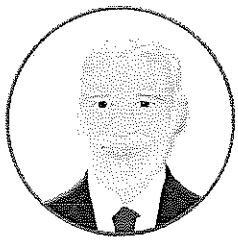


DELFINO CONSUNJI, *PE* PROJECT MANAGER

39 YEARS OF EXPERIENCE

EXPERIENCE

Mauna Loa Avenue Residential Street Improvement & Water Main Installation,, *Glendora*
Local Streets Rehabilitation, Phase II (Asphalt Improvements) in Zone 3, *Norwalk*
La Paz Road Long-Term Phase II Project, *Laguna Niguel*
Sierra Vista Drive (West) & Del Norte Avenue (North) Project, *Chino Hills*
Residential Streets Rehabilitation Program, *Downey*
FY 2023-24 Pavement Management Program Implementation Project, *Glendale*
Transit System (NTS) Bus Stop Improvement, Phase I (FTA Funded), *Norwalk*



IGNACIO OCHOA, *PE,TE,PTOE* TRAFFIC ENGINEER

36 YEARS OF EXPERIENCE

EXPERIENCE

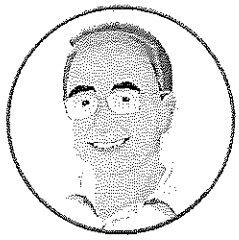
Local Residential Streets Rehabilitation, Zone 19 Project, Phase II, *Norwalk*
Antonio Parkway & La Pata Avenue Widening Project, *County of Orange*
Inglewood Avenue at Manhattan Beach Boulevard Widening, *Redondo Beach*
Manhattan Beach and Sepulveda Boulevard Widening, *Manhattan Beach*
Director of Orange county Engineering/Chief Engineer, *County of Orange*
Various Infrastructure Projects and Planning, *County of Orange*

JUSTIN SMEETS, *PE,PLS* PROJECT MANAGER

20 YEARS OF EXPERIENCE

EXPERIENCE

Merced Avenue Linear Park Project (Heroes Park) (CIP 003), *El Monte*
Fy 2022-23 Annual Pavement Rehabilitation Project, Phases 1-4, *Whittier*
Water Main Replacement At Halstead Dr., Hidalgo Ave. & Main St., *Alhambra*
Bellflower Boulevard Complete Streets Project-HSIP Funded, *Bellflower*
Heil Avenue & Ward Street Rehabilitation & Resurfacing Project, *Fountain Valley*
Sidewalk Gap Closure At East Chase Drive And Smith Avenue, *Corona*
Durfee Avenue & Ramona Boulevard Sidewalk Improvements, *El Monte*

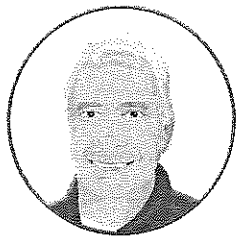


JOE DYER, *PE,TE* PROJECT MANAGER

45 YEARS OF EXPERIENCE

EXPERIENCE

Pipeline Avenue Sewer Access Road, *Chino Hills*
Citywide Wastewater Master Plan Study, *Chino Hills*
Vravis Circle Drainage Improvements, *Chino Hills*
Ramona Avenue Water Main Replacement,, *Chino Hills*
Canon Lane Pavement Rehabilitation and Drainage Improvements, *Chino Hills*
Water Main Saddle replacement (Phases I, II & III), *Chino Hills*
Citywide Storm Drain Master Plan Study, *Chino Hills*



LUDY SMEETS, *PE* CONSTRUCTION MANAGER

41 YEARS OF EXPERIENCE

EXPERIENCE

Merced Avenue Linear Park Project (Cip 003), *El Monte*
Neighborhood Park Renovations - Cherry Park Project, *Lake Forest*
Arroyo Drive Improvement Project, *Montebello*
Mauna Loa Ave. Residential Street Improvements & Water Main Installation, *Glendora*
Santa Anita Active Transportation Program Cycle 5 Project, *El Monte*
Street & Slurry Seal Rehabilitation - Phase III, *Laguna Beach*
Local Streets Rehabilitation Phase I (Concrete Improvements) Zone 3, *Norwalk*

E QUALIFICATIONS

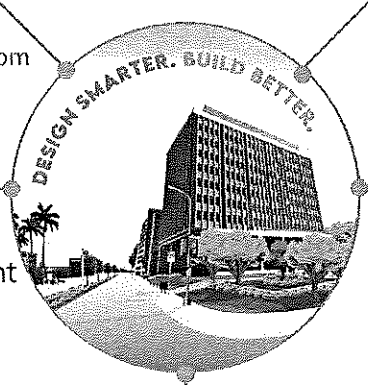
FIRM PROFILE

LEGAL NAME & ADDRESS

Onward Engineering
300 S. Harbor Blvd.
Suite 814, Anaheim, CA 92805
(714) 533.3050 | mataya@oe-eng.com

FIRM DETAILS

California Secretary of State business entity number: C2640309



PROFESSIONAL SERVICES

DESIGN Engineering
PROJECT Management
CONSTRUCTION Management
STAFF Augmentation
PLAN Check
CONSTRUCTION Inspection
SURVEYING

FIRM HISTORY

Incorporated Year **2004** as a "**C**" Corporation in the state of CA. **20** Years in business **34** Employees

MISSION STATEMENT

At Onward Engineering (OE), our mission is to set a new standard of excellence in consulting services for our clients, ultimately enhancing the quality of life in the communities we serve.

FIRM EXPERIENCE

COSTA MESA — ADAMS AVENUE ACTIVE TRANSPORTATION IMPROVEMENTS


M. Ataya D. Consunji J. Smeets R. Dennis D. Lowe D. Loria E. Urso J. To L. Phung H. Lu

OE provided Design Engineering services to the City of Costa Mesa for the Adams Avenue Active Transportation Improvements – Multipurpose Trails Project. With 6,800 linear feet (1.3 miles) of Class I multipurpose trails along Adams Avenue, connecting the Santa Ana River bridge to Royal Palm Drive, the project benefited cyclists, pedestrians, and the broader community. The project required pavement rehabilitation; multipurpose trails construction; median modifications; approximately 16 ADA ramp and 9 driveway construction; streetlight relocation/traffic signal modifications at 4 separate intersections; landscaping and irrigation; utility appurtenance adjustments/relocations; signing and striping replacement; a topographic survey consisting of aerial photographs, centerlines, monuments, and property boundaries; a geotechnical study of subgrade soil and recommendations on pavement treatments and multipurpose trail construction; 29 utility potholes; and a complete CEQA/NEPA environmental assessment for an E-76 permit. OE utilized geo-referencing of the work site in a GIS map for data referencing and plan sheets.

• **Reference:** Ramin Nikoui, Senior Engineer - (714) 754-5184 - ramin.nikoui@costamesaca.gov - 77 Fair Drive, 4th floor, Costa Mesa, CA 92626 • **Project Dates:** December 2, 2024 - Current

ALHAMBRA — WATER MAIN REPLACEMENT PROJECT


M. Ataya J. Smeets R. Dennis D. Lowe D. Loria E. Urso J. To L. Phung H. Lu

OE provided engineering design services for the City of Alhambra on the Water Main Replacement Project with site locations at Halstead Drive, Hidalgo Avenue, and Main Street. The purpose of the project was to replace water mains that were constructed between the 1910s and 1920s with approximately 5,400 linear feet (1.0 mile) of water mains in order to improve water flow and firefighting capabilities. The limits included Halstead Circle (from Vega St. to Vega St.) and on Hidalgo Avenue (from Alhambra Rd. to Main St.) in which 6"

cast iron piping was replaced with 8" ductile iron pipe (DIP). The work on Main St. (from Hidalgo to Champion Place) involved replacing 4" cast iron piping with 8" DIP. Service lateral reconnection, trench backfilling, pavement reconstruction, signing and striping, and curb and gutter repairs were also addressed.

• Reference: Thomas Amare, Engineering Associate - (626) 300-1562 - tamare@cityofalhambra.org - 111 South First Street, Alhambra, CA. 91801 • Project Dates: June 2023 - September 2023

EL MONTE MERCED AVENUE LINEAR PARK PROJECT (HEROES PARK) (CIP 003)

M. Ataya M. Ataya L. Smeets R. Valle T. Stanley

OE provided Construction Management and Inspection services for the City of El Monte on the Merced Avenue Linear Park Project, CIP 003, located on Merced Avenue between Garvey Avenue and Towneway Drive. This project features a new linear park constructed directly within a median island along a wide residential street. The 1.1-acre linear park improvements included traffic calming through lane reduction, tree planting, seating, picnic areas, naturalized play and fitness equipment, sidewalk, planting areas, protective fencing, solar lighting, trash receptacles, a Class IV bikway and bike racks, stormwater retention areas, walking path, and all other work as indicated in the construction documents. Replacement of existing 6" and 8" water mainline along the east side of Merced Avenue was also included as part of this project. Additionally, OE provided public outreach support on the project. This project won the 2024 APWA Best Project of the Year Creative and Innovative Category and was funded soley through the Clean California Grant Funds and Local Funds.

• Reference: Kevin Ko, Project Manager - (626) 580-2250 - kko@elmonteca.gov - 11333 Valley Boulevard - El Monte, CA 91731 • Project Dates: January 2023 - November 2024

GLENDALE FY 2023-24 PAVEMENT MANAGEMENT PROGRAM IMPLEMENTATION

M. Ataya D. Consunji J. Smeets R. Dennis D. Lowe D. Loria E. Urso J. To L. Phung H. Lu

OE provided Design Engineering services to the City of Glendale on the Fiscal Year 2023 to 2024 Pavement Management Program Implementation Project. The purpose of this project was to rehabilitate approximately 48,650 linear feet (9.2 miles) of street, a total of 60 streets in all. OE was tasked with providing designs for pavement resurfacing and reconstruction; curb, gutter and sidewalk repairs at 9 separate locations; a total of 124 ADA curb ramps and driveways construction; catch basin enhancements; bus stop improvements and relocations; sewer point repairs; tree well installation and tree planting; utility appurtenance adjustments and relocations; signing and striping; and surveying well monument installations and replacements. Additional work included sewer video inspection to identify sewer defects and preparing sanitary sewer plans for repairs that included point repairs, and sectional and full-length slip lining, along with Traffic Control plans. OE also acquired no-fee permits for ground distrubance work within the City's right-of-way.

• Reference: Yazdan T. Emrani, PE, Director of Public Works - (818) 548-3950 - yemrani@glendaleca.gov - 633 E. Broadway Street, Suite 209, Glendale, CA 91206 • Project Dates: October 2023-June 2024

LOMITA 247TH STREET AREA WATER MAIN REPLACEMENT PROJECT

M. Ataya J. Smeets R. Dennis D. Lowe D. Loria E. Urso J. To L. Phung H. Lu

OE provided Design Engineering services to The City of Lomita for the 247th Street Area Water Main Replacement Project located at 246th Street, 247th Place, 248th Street, Western Avenue and Lomita Boulevard and involved the installation of 3,300 linear feet of new 6-inch PVC water mains to provide improved flow, pressure, and fire protection. The existing 4-inch/6-inch water main systems were constructed between 1928 and 1930 and had exceeded its useful service life. The proposed water main was installed parallel to the existing main while keeping the old line in service to minimize downtime for the public. All fire hydrants, service laterals, valves, blow-offs, air release valves, and other associated water appurtenances were replaced, and sectional pavement, curb gutter and sidewalk were removed and reconstructed according to ADA standards and drainage

patterns. Encroachment permits from Caltrans and the City of Los Angeles within their jurisdictions were secured. Funding was sourced from the City's CIP Program and the FEMA Hazard Mitigation Grant Program.

• Reference: Mondher Saied, PE - Civil Engineer - (310) 325-7110 x110 - msaied@lomitacity.com - 24300 Narbonne Ave., Lomita, CA 90717 • Project Dates: November 2021 - February 2022

WHITTIER FY 2022-23 ANNUAL PAVEMENT REHABILITATION PROJECT, PHASES 1-4

M. Ataya J. Smeets R. Dennis D. Lowe D. Loria E. Urso J. To L. Phung H. Lu

OE provided the City of Whittier with Engineering Design services through 4 phases of their Annual Pavement Rehabilitation Project. The project purpose was to rehabilitate approximately 49,000 linear feet (9.3 miles) of 46 streets with a variety of slurry and cape seal, and grind and overlay in order to achieve an extended pavement service life while minimizing future maintenance needs, improve safety and enhance aesthetics. The required work involved pavement, curb, gutter and sidewalk repair and rehabilitation, reconstructing 62 ADA curb ramps (52 with missing truncated domes), replacing 9 cross gutters, utility appurtenance adjusting and relocating, and signing and striping. The project also required Caltrans Encroachment Permits for streets around Whittier Boulevard, and permits for the Union Pacific Railroad (UPRR) due to street proximity to the right-of-way on the southwest end. OE's in-house Laser Scanner was utilized to capture visible indications of surface utilities, trees, utility poles, luminaries, fencing, walls, sidewalks, hardscape, signs, and edge of pavement lying within the ramp locations, as well as lip of gutter, flow-line, top of curb, and back of walk elevations were documented. The survey also extended beyond the ramp's BCRs/ECRs to ensure proper tie-in to the existing infrastructure.

• Reference: Michelle Chapman, PE - Senior Civil Engineer - (562) 567-9500 - mchapman@cityofwhittier.org - 13230 Penn Street, - Whittier, California 90602 • Project Dates: August 2022 - February 2023

FOUNTAIN VALLEY ARTERIAL STREETS IMPROVEMENT PROJECT

M. Ataya J. Smeets R. Dennis D. Lowe D. Loria E. Urso J. To L. Phung H. Lu

OE provided design engineering services for the Arterial Street Improvement Project in the City of Fountain Valley. This project focused on the rehabilitation of critical arterial roadways, enhancing safety and mobility for both residents and visitors. The project included Ellis Avenue from Brookhurst Street to Ward Street, approximately 2,600 linear feet; Ward Street from Apache River Avenue to Ellis Avenue, approximately 1,140 linear feet; Newhope Street from Edinger Avenue to Heil Avenue, approximately 2,600 linear feet; and Slater Avenue from Brookhurst Street to Ward Street, approximately 2,600 linear feet. In total, the project covered approximately 8,940 linear feet of roadway improvements. The scope of work featured a combination of a 3-inch grind with ARHM overlay, including a leveling course, Type II slurry, and extensive concrete improvements. These enhancements included sidewalk upgrades, ADA-compliant ramps, driveway reconstructions, and curb and gutter improvements, all designed to ensure long-lasting durability and significantly improved driving conditions on these vital thoroughfares.

• Reference: Ryan Damon, Assistant Engineer - (714) 593-4443 - ryan.damon@fountainvalley.gov - 10200 Slater Avenue, Fountain Valley, CA. 92708 • Project Dates: July 2024 - January 2025

LAKE FOREST LAKE FOREST DRIVE RESURFACING: BAKE PARKWAY TO I-5 FREEWAY

M. Ataya J. Smeets R. Dennis D. Lowe D. Loria E. Urso J. To L. Phung H. Lu

OE prepared full design plans, specifications and estimates (PS&E) for this roadway resurfacing project located at Lake Forest Drive, between Bake Parkway and the I-5 freeway. The project design plans were to be phased in order for the construction to be distributed into three phases as funding permitted. Along the approximately 5.5 mile stretch of road within the project limits, the phases required the construction of 152 ADA ramps and 22 ADA driveways in total and 7,105 linear feet of median curb height construction, along with the construction of bus pads, curb gutter and sidewalk repairs, and signing and striping replacement.

The main objective was to improve the PCI of the street segments following our team's professional assessment of the existing pavement conditions in order to extend the street service life, improve safety by upgrading to safer streets with better ride quality and pedestrian access, minimize future maintenance costs and enhance aesthetics. Project funding was through Measure M2, SB1 and Infrastructure Reserves Funds.

• **Reference:** Dennis Jue, Deputy City Engineer | (949) 461-3488 | djue@lakeforestca.gov
100 Civic Center Drive, Lake Forest, CA 92630 • **Project Dates:** 2021

IRVINE — SAND CANYON & PORTOLA PARKWAY IMPROVEMENTS


M. Ataya J. Smeets R. Dennis D. Lowe D. Loria E. Urso J. To L. Phung H. Lu

OE provided the City of Irvine with design engineering services for the Portola Parkway and Sand Canyon Avenue Street Rehabilitation Project. The project consisted of rehabilitating approximately 4,500 linear feet of Portola Parkway and 9,300 linear feet of Sand Canyon Avenue, as well as rehabilitating the intersections of Sand Canyon Avenue & Laguna Canyon, Sand Canyon Avenue & Trabuco Road, and Sand Canyon Avenue & Irvine Boulevard. An additional design element included reconstructing curb ramps to meet ADA requirements where deficient.

• **Reference:** Allison Tran, Associate Engineer - atran@cityofirvine.org - (949) 724-7547 - 6427 Oak Canyon-Bld.1. Irvine, CA 92618 • **Project Dates:** 2021

COSTA MESA — NEWPORT BOULEVARD WIDENING IMPROVEMENTS PROJECT


M. Ataya J. Smeets R. Dennis D. Lowe D. Loria E. Urso J. To L. Phung H. Lu

OE provided the City of Costa Mesa with Design Engineering services on the Newport Boulevard Widening Improvements Project. The project consisted of widening a portion 77 Fair Drive of southbound Newport Boulevard to accommodate a fourth through lane and improve its Level of Service from the current "F" rating (ranging from 1.10 to 1.30). The section of roadway that was enhanced extended approximately 2,700 linear feet southwest from 19th Street to the Superior Avenue turn-off located northeast of 17th Street. The project is located within Caltrans jurisdiction and required traffic signal modifications, utility and street light relocations, and right-of way acquisitions to accommodate the additional through lane and right-turn pockets.

• **Reference:** Jennifer Rosales, Project Manager - jennifer.rosales@costamesaca.gov - (714) 754-5180 - 77 Fair Drive, Costa Mesa, CA 92626 • **Project Dates:** 2020

FULLERTON — EUCLID ROADWAY & SEWER RECONSTRUCTION PROJECT


M. Ataya J. Smeets R. Dennis D. Lowe D. Loria E. Urso J. To L. Phung H. Lu

OE provided Design Engineering services to the City of Fullerton. The project consisted of reconstructing or resurfacing approximately 3,700 linear feet of arterial streets between Fern Drive and Williamson Avenue and replacing approximately 1,700 feet of sewer mains between Malvern Avenue and Commonwealth Avenue. The project also included reconstructing 9 ADA ramps to bring them up to the most current ADA standards. The sewer work included removing the existing 10-inch VCP and replacing it with new 12-inch VCP pipe between Commonwealth and Malvern and removing and replacing sewer north of Malvern to the end of the street project limits at Fern without upsizing. The worked also included removing the manholes at the center of the Euclid Street/Chapman Avenue intersection and establishing a new connection point approximately 50 feet to the east along Chapman Avenue as well as reconstructing the double barrel siphon and adjusting invert elevations to achieve a suitable slope. The design utilized a trenchless method to install the siphon beneath the OCPW Brea Creek Channel. Additional tasks included adjusting manhole elevations and reconnected service laterals, constructing new curb and gutter where gutter is absent, constructing ADA compliant curb ramps, and repairing curb, gutter, cross gutters, sidewalks and driveways where required. The City utilized SB1 funds for the road rehabilitation and local funds for the sewer improvements.

• **Reference:** David Grantham, PE, Public Works Engineer - (714) 738-6853 - david.grantham@cityoffullerton.com - 303 West Commonwealth Avenue, Fullerton, CA. 92832 • **Project Dates:** 2020

References of Work Performed Form

(List 5 Local References)

Comany Name: Onward Engineering

1. Name of Reference: **City of El Monte**

Address: 11333 Valley Boulevard, El Monte, CA 91731

Contact Name: Kevin Ko Phone Number: (626) 580-2250

Email: kko@elmonteca.gov

Dates of Business: 2021 to present

2. Name of Reference: **City of Irvine**

Address: 6427 Oak Canyon-Bld.1. Irvine, CA 92618

Contact Name: Allison Tran Phone Number: (949) 724-7547

Email: atran@cityofirvine.org

Dates of Business: 2021 to present

3. Name of Reference: **City of Costa Mesa**

Address: 77 Fair Drive, 4th floor, Costa Mesa, CA 92626

Contact Name: Ramin Nikoui Phone Number: (714) 754-5184

Email: ramin.nikoui@costamesaca.gov

Dates of Business: December 2024 to present

4. Name of Reference: **City of Laguna Niguel**

Address: 30111 Crown Valley Parkway, Laguna Niguel, CA 92677

Contact Name: John Pham Phone Number: (949) 362-4335

Email: jpham@cityoflagunaniguel.org

Dates of Business: 2020 to present

5. Name of Reference: **City of Fountain Valley**

Address: 10200 Slater Avenue, Fountain Valley, CA 92708

Contact Name: Ryan Damon Phone Number: (714) 593-4443

Email: ryan.damon@fountainvalley.gov

Dates of Business: July 2024 - January 2025

B

EXHIBIT "A"

CONSULTING SERVICES COSTS

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

Provide On-Call Development Review Engineering and Professional Consulting Services

B. CONSULTANT'S DUTIES AND RESPONSIBILITIES:

SEE ATTACHED EXHIBIT A

C. CITY'S DUTIES AND RESPONSIBILITIES:

D. WORK PROGRAM/PROJECT SCHEDULE:

F FEE PROPOSAL

EXHIBIT "B"

ONWARD ENGINEERING
design smarter. build better.
300 S. Harbor Blvd.
Suite 814
Anaheim, CA 92805
(714) 533.3050
www.oe-eng.com

HOURLY RATES

DESIGN ENGINEERING

role	cost (hourly)
QA/QC Manager	**$225.00**
Project Manager	**$200.00**
Project Engineer	**$155.00**
Traffic Engineer	**$200.00**

CONSTRUCTION MANAGEMENT & INSPECTION

role	cost (hourly)
Construction Manager	**$200.00**
Construction Inspector*	**$155.00 (*OT $185.00 / DT $205.00*)**
Public Outreach	**$100.00**

SURVEY TEAM

role	cost (hourly)
2-Person Survey Team (1/2-Day Rate)*	**$2,700.00**
2-Person Survey Team (Full-Day Rate)*	**$4,200.00**

ADMINISTRATION & MISCELLANEOUS

role	cost (hourly)
Administration	**$100.00**

PLAN CHECKING

role	cost (hourly)
Plan Checker	**$200.00**

OE pays all Construction Inspectors prevailing wage rates in compliance with the requirements set forth by the Department of Industrial Relations (DIR) State prevailing wages under Labor Code § 1770 et seq. Labor Code §§ 1775 and 1777.7 along with the Davis-Bacon and Related Acts (DBRA) under the standards of the Community Development Block Grant (CDBG) funding as administered by the U.S. Housing and Urban Development (HUD) Department.

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.

F FEE PROPOSAL

EXHIBIT "B"

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role	cost (hourly)
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role	cost (hourly)
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