

**CITY OF SANTA ANA  
CONTRACTOR AGREEMENT FOR  
ON-CALL ENGINEERING SERVICES WITH  
HUITT-ZOLLARS, INC.**

THIS AGREEMENT is made and entered into on this 16<sup>th</sup> day of August 2022 by and between Huitt-Zollars, Inc., (“Contractor”), and the City of Santa Ana, a charter city and municipal corporation organized and existing under the Constitution and laws of the State of California (“City”).

**RECITALS**

- A. The City desires to retain a Contractor having special skill and knowledge in the field of on-call water resources engineering services pursuant to RFP 22-002.
- B. Contractor represents that Contractor is able and willing to provide such services to the City.
- C. On April 21, 2020, City Council approved agreements with Tetra Tech, Inc., Michael Baker International, Inc., Psomas, Stantec Consulting Services, Inc., NV5, Inc., Huitt-Zollars, Inc., Kimley-Horn and Associates, Inc., and TAIT & Associates, Inc. (“2020 Agreements”) to provide on-call engineering services for the Public Works Agency, Water Resources Division.
- D. On March 16, 2021, the City amended the 2020 Agreements to increase the funding amount by \$950,000 for the remainder of the term to allow these services to be utilized for additional civil works projects included in the current and future fiscal years’ Capital Improvement Programs (CIPs). These agreements remain in full force and effect.
- E. The City finds that new agreements under RFP 22-002 are required for additional services for new civil works projects as the funding capacity has been reached under the 2020 Agreements.
- F. In undertaking the performance of this Agreement, Contractor represents that it is knowledgeable in its field and that any services performed by Contractor under this Agreement will be performed in compliance with such standards as may reasonably be expected from a professional consulting firm in the field.

**NOW THEREFORE**, in consideration of the mutual and respective promises, and subject to the terms and conditions hereinafter set forth, the parties agree as follows:

**1. SCOPE OF SERVICES**

Contractor shall perform during the term of this agreement, the services described in the scope of work that was included in RFP No. 22-002 and that is attached as **Exhibit A**, and as further delineated in Contractor’s proposal, which is attached as **Exhibit B** and incorporated in full. The Scope of Work under this Agreement is not intended to cover any civil works projects

assigned to the 2020 Agreements.

## **2. COMPENSATION**

- a. Contractor under this Agreement. Contractor shall be paid only for services performed under the Agreement at the rates and charges identified in **Exhibit C**. Contractor is one of six Contractors selected to provide on-call engineering services. The total aggregate amount, among the six contractors, shall not exceed the shared aggregate amount of \$2,000,000 during the term of this agreement, including any extension periods. All reimbursable expenses must be approved in writing by the City before they are incurred by Contractor. City shall not be responsible for any reimbursable costs incurred by Contractor without the advance written approval of City.
- b. Payment by City shall be made within 45 days (forty-five) days following receipt of proper invoice evidencing work performed, subject to City accounting procedures. City shall not be assessed any late fees for payments rendered after forty-five (45) days. Payment need not be made for work which fails to meet the standards of performance set forth in the Recitals which may reasonably be expected by City.

## **3. TERM**

This Agreement shall commence on the date first written above for a three (3) year term with the option for the City to grant up to two (2) one (1) year renewals, exercisable by a writing by the City Manager and the City Attorney, unless terminated earlier in accordance with Section 16, below.

## **4. PREVAILING WAGES**

Contractor is aware of the requirements of California Labor Code Section 1720, et seq., and 1770, et seq., as well as California Code of Regulations, Title 8, Section 16000, et seq., ("Prevailing Wage Laws"), which require the payment of prevailing wage rates and the performance of other requirements on "public works" and "maintenance" projects. If the services being performed are part of an applicable "public works" or "maintenance" project, as defined by the Prevailing Wage Laws, and the total compensation is \$1,000 or more, Contractor agrees to fully comply with such Prevailing Wage Laws. Contractor shall defend, indemnify and hold the City, its elected officials, officers, employees and agents free and harmless from any claim or liability arising out of any failure or alleged failure to comply with the Prevailing Wage Laws.

## **5. INDEPENDENT CONTRACTOR**

Contractor shall, during the entire term of this Agreement, be construed to be an independent contractor and not an employee of the City. This Agreement is not intended nor shall it be construed to create an employer-employee relationship, a joint venture relationship, or to allow the City to exercise discretion or control over the professional manner in which Contractor performs the services which are the subject matter of this Agreement; however, the services to be provided by Contractor shall be provided in a manner consistent with all applicable standards and

regulations governing such services. Contractor shall pay all salaries and wages, employer's social security taxes, unemployment insurance and similar taxes relating to employees and shall be responsible for all applicable withholding taxes.

## **6. OWNERSHIP OF MATERIALS**

This Agreement creates a non-exclusive and perpetual license for City to copy, use, modify, reuse, or sublicense any and all copyrights, designs, and other intellectual property embodied in plans, specifications, studies, drawings, estimates, and other documents or works of authorship fixed in any tangible medium of expression, including but not limited to, physical drawings or data magnetically or otherwise recorded on computer diskettes, which are prepared or caused to be prepared by Contractor under this Agreement ("Documents & Data"). Contractor shall require all subcontractors to agree in writing that City is granted a non-exclusive and perpetual license for any Documents & Data the subcontractor prepares under this Agreement. Contractor represents and warrants that Contractor has the legal right to license any and all Documents & Data. Contractor makes no such representation and warranty in regard to Documents & Data which were provided to Contractor by the City. City shall not be limited in any way in its use of the Documents and Data at any time, provided that any such use not within the purposes intended by this Agreement shall be at City's sole risk.

## **7. INSURANCE**

Coverage shall be at least as broad as:

1. **Commercial General Liability (CGL):** Insurance Services Office Form CG 00 01 covering CGL on an "occurrence" basis, including products and completed operations, property damage, bodily injury and personal & advertising injury with limits no less than **\$1,000,000** per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location (ISO CG 25 03 or 25 04) or the general aggregate limit shall be twice the required occurrence limit.
2. **Automobile Liability:** Insurance Services Office Form Number CA 0001 covering, Code 1 (any auto), or if Consultant has no owned autos, Code 8 (hired) and 9 (non-owned), with limit no less than **\$1,000,000** per accident for bodily injury and property damage.
3. **Workers' Compensation** insurance as required by the State of California, with Statutory Limits, and Employer's Liability Insurance with limit of no less than **\$1,000,000** per accident for bodily injury or disease.
4. **Professional Liability** (Errors and Omissions) Insurance appropriate to the Consultant's profession, with limit no less than **\$1,000,000** per occurrence or claim.

If the Consultant maintains broader coverage and/or higher limits than the minimums shown above, the Entity requires and shall be entitled to the broader coverage and/or the higher limits maintained by the contractor. Any available

insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to the Entity.

**Other Insurance Provisions**

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

***Additional Insured Status***

**The Entity, its officers, officials, employees, and volunteers are to be covered as additional insureds** on the CGL policy with respect to liability arising out of work or operations performed by or on behalf of the Consultant including materials, parts, or equipment furnished in connection with such work or operations. General liability coverage can be provided in the form of an endorsement to the Consultant's insurance (at least as broad as ISO Form CG 20 10 11 85 or **both** CG 20 10, CG 20 26, CG 20 33, or CG 20 38; **and** CG 20 37 forms if later revisions used).

***Primary Coverage***

For any claims related to this contract, the **Consultant's insurance coverage shall be primary** insurance primary coverage at least as broad as ISO CG 20 01 04 13 as respects the Entity, its officers, officials, employees, and volunteers. Any insurance or self-insurance maintained by the Entity, its officers, officials, employees, or volunteers shall be excess of the Consultant's insurance and shall not contribute with it.

***Notice of Cancellation***

Each insurance policy required above shall state that **coverage shall not be canceled, except with notice to the Entity.**

***Waiver of Subrogation***

Consultant hereby grants to Entity a waiver of any right to subrogation which any insurer of said Consultant may acquire against the Entity by virtue of the payment of any loss under such insurance. Consultant agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the Entity has received a waiver of subrogation endorsement from the insurer.

***Self-Insured Retentions***

Self-insured retentions must be declared to and approved by the Entity. The Entity may require the Consultant to purchase coverage with a lower retention or provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention. The policy language shall provide, or be endorsed to provide, that the self-insured retention may be satisfied by either the named insured or Entity.

***Acceptability of Insurers***

Insurance is to be placed with insurers authorized to conduct business in the state with a current A.M. Best's rating of no less than A:VII, unless otherwise acceptable to the Entity.



### ***Claims Made Policies***

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

1. The Retroactive Date must be shown and must be before the date of the contract or the beginning of contract work.
2. Insurance must be maintained and evidence of insurance must be provided ***for at least five (5) years after completion of the contract of work.***
3. If coverage is canceled or non-renewed, and not ***replaced with another claims-made policy form with a Retroactive Date*** prior to the contract effective date, the Consultant must purchase “extended reporting” coverage for a minimum of ***five (5) years*** after completion of contract work.

### ***Verification of Coverage***

Consultant shall furnish the Entity with original Certificates of Insurance including all required amendatory endorsements (or copies of the applicable policy language effecting coverage required by this clause) and a copy of the Declarations and Endorsement Page of the CGL policy listing all policy endorsements to Entity before work begins. However, failure to obtain the required documents prior to the work beginning shall not waive the Consultant’s obligation to provide them. The Entity reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time.

### ***Subcontractors***

Consultant shall require and verify that all subcontractors maintain insurance meeting all the requirements stated herein, and Contractor shall ensure that Entity is an additional insured on insurance required from subcontractors.

### ***Special Risks or Circumstances***

Entity reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.

## **8. INDEMNIFICATION**

Contractor agrees to defend, and shall indemnify and hold harmless the City, its officers, agents, employees, contractors, special counsel, and representatives from liability: (1) for personal injury, damages, just compensation, restitution, judicial or equitable relief arising out of claims for personal injury, including death, and claims for property damage, which may arise from the negligent operations of the Contractor, its subcontractors, agents, employees, or other persons acting on its behalf which relates to the services described in section 1 of this Agreement; and (2) from any claim that personal injury, damages, just compensation, restitution, judicial or equitable relief is due by reason of the terms of or effects arising from this Agreement. This indemnity and hold harmless agreement applies to all claims for damages, just compensation, restitution, judicial or equitable relief suffered, or alleged to have been suffered, by reason of the events referred to in this Section or by reason of the terms of, or effects, arising from this Agreement. The Contractor

further agrees to indemnify, hold harmless, and pay all costs for the defense of the City, including fees and costs for special counsel to be selected by the City, regarding any action by a third party challenging the validity of this Agreement, or asserting that personal injury, damages, just compensation, restitution, judicial or equitable relief due to personal or property rights arises by reason of the terms of, or effects arising from this Agreement. City may make all reasonable decisions with respect to its representation in any legal proceeding. Notwithstanding the foregoing, to the extent Contractor's services are subject to Civil Code Section 2782.8, the above indemnity shall be limited, to the extent required by Civil Code Section 2782.8, to claims that arise out of, pertain to, or relate to the negligence, recklessness, or willful misconduct of the Contractor.

## **9. INTELLECTUAL PROPERTY INDEMNIFICATION**

Contractor shall defend and indemnify the City, its officers, agents, representatives, and employees against any and all liability, including costs, for infringement of any United States' letters patent, trademark, or copyright infringement, including costs, contained in the work product or documents provided by Contractor to the City pursuant to this Agreement.

## **10. RECORDS**

Contractor shall keep records and invoices in connection with the work to be performed under this Agreement. Contractor shall maintain complete and accurate records with respect to the costs incurred under this Agreement and any services, expenditures, and disbursements charged to the City for a minimum period of three (3) years, or for any longer period required by law, from the date of final payment to Contractor under this Agreement. All such records and invoices shall be clearly identifiable. Contractor shall allow a representative of the City to examine, audit, and make transcripts or copies of such records and any other documents created pursuant to this Agreement during regular business hours. Contractor shall allow inspection of all work, data, documents, proceedings, and activities related to this Agreement for a period of three (3) years from the date of final payment to Contractor under this Agreement.

## **11. CONFIDENTIALITY**

If Contractor receives from the City information which due to the nature of such information is reasonably understood to be confidential and/or proprietary, Contractor agrees that it shall not use or disclose such information except in the performance of this Agreement, and further agrees to exercise the same degree of care it uses to protect its own information of like importance, but in no event less than reasonable care. "Confidential Information" shall include all nonpublic information. Confidential information includes not only written information, but also information transferred orally, visually, electronically, or by other means. Confidential information disclosed to either party by any subsidiary and/or agent of the other party is covered by this Agreement. The foregoing obligations of non-use and nondisclosure shall not apply to any information that (a) has been disclosed in publicly available sources; (b) is, through no fault of the Contractor disclosed in a publicly available source; (c) is in rightful possession of the Contractor without an obligation of confidentiality; (d) is required to be disclosed by operation of law; or (e) is independently developed by the Contractor without reference to information disclosed by the City.

## **12. CONFLICT OF INTEREST CLAUSE**

Contractor covenants that it presently has no interests and shall not have interests, direct or indirect, which would conflict in any manner with performance of services specified under this Agreement.

## **13. DISCRIMINATION**

Contractor shall not discriminate because of race, color, creed, religion, sex, marital status, sexual orientation, age, national origin, ancestry, or disability, as defined and prohibited by applicable law, in the recruitment, selection, training, utilization, promotion, termination or other employment related activities. Contractor affirms that it is an equal opportunity employer and shall comply with all applicable federal, state and local laws and regulations.

## **14. EXCLUSIVITY AND AMENDMENT**

This Agreement represents the complete and exclusive statement between the City and Contractor, and supersedes any and all other agreements, oral or written, between the parties. In the event of a conflict between the terms of this Agreement and any attachments hereto, the terms of this Agreement shall prevail. This Agreement may not be modified except by written instrument signed by the City and by an authorized representative of Contractor. The parties agree that any terms or conditions of any purchase order or other instrument that are inconsistent with, or in addition to, the terms and conditions hereof, shall not bind or obligate Contractor or the City. Each party to this Agreement acknowledges that no representations, inducements, promises or agreements, orally or otherwise, have been made by any party, or anyone acting on behalf of any party, which is not embodied herein.

## **15. ASSIGNMENT**

Inasmuch as this Agreement is intended to secure the specialized services of Contractor, Contractor may not assign, transfer, delegate, or subcontract any interest herein without the prior written consent of the City and any such assignment, transfer, delegation or subcontract without the City's prior written consent shall be considered null and void. Nothing in this Agreement shall be construed to limit the City's ability to have any of the services which are the subject to this Agreement performed by City personnel or by other contractors retained by City.

## **16. TERMINATION**

This Agreement may be terminated by the City upon thirty (30) days written notice of termination. In such event, Contractor shall be entitled to receive and the City shall pay Contractor compensation for all services performed by Contractor prior to receipt of such notice of termination, subject to the following conditions:

- a. As a condition of such payment, the Executive Director may require Contractor to deliver to the City all work product(s) completed as of such date, and in such case such work product shall be the property of the City unless prohibited by law, and

Contractor consents to the City's use thereof for such purposes as the City deems appropriate.

- b. Payment need not be made for work which fails to meet the standard of performance specified in the Recitals of this Agreement.

## **17. WAIVER**

No waiver of breach, failure of any condition, or any right or remedy contained in or granted by the provisions of this Agreement shall be effective unless it is in writing and signed by the party waiving the breach, failure, right or remedy. No waiver of any breach, failure or right, or remedy shall be deemed a waiver of any other breach, failure, right or remedy, whether or not similar, nor shall any waiver constitute a continuing waiver unless the writing so specifies.

## **18. JURISDICTION - VENUE**

This Agreement has been executed and delivered in the State of California and the validity, interpretation, performance, and enforcement of any of the clauses of this Agreement shall be determined and governed by the laws of the State of California. Both parties further agree that Orange County, California, shall be the venue for any action or proceeding that may be brought or arise out of, in connection with or by reason of this Agreement.

## **19. PROFESSIONAL LICENSES**

Contractor shall, throughout the term of this Agreement, maintain all necessary licenses, permits, approvals, waivers, and exemptions necessary for the provision of the services hereunder and required by the laws and regulations of the United States, the State of California, the City of Santa Ana and all other governmental agencies. Contractor shall notify the City immediately and in writing of its inability to obtain or maintain such permits, licenses, approvals, waivers, and exemptions. Said inability shall be cause for termination of this Agreement.

## **20. NOTICE**

Any notice, tender, demand, delivery, or other communication pursuant to this Agreement shall be in writing and shall be deemed to be properly given if delivered in person or mailed by first class or certified mail, postage prepaid, or sent by fax or other telegraphic communication in the manner provided in this Section, to the following persons:

To City:

Clerk of the City Council  
City of Santa Ana  
20 Civic Center Plaza (M-30)  
P.O. Box 1988  
Santa Ana, CA 92702-1988  
Fax: 714- 647-6956

With courtesy copies to:

Executive Director, Public Works Agency City of Santa Ana 20 Civic Center Plaza (M-21) P.O. Box 1988 Santa Ana, California 92702 Fax: 714- 647-5635	
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To Contractor:

Huitt-Zollars, Inc.,  
Jeffrey Okamoto  
Vice President/Managing Principal, P.E.  
2603 Main Street, Suite 400  
Irvine, CA 92614

A party may change its address by giving notice in writing to the other party. Thereafter, any communication shall be addressed and transmitted to the new address. If sent by mail, communication shall be effective or deemed to have been given three (3) days after it has been deposited in the United States mail, duly registered or certified, with postage prepaid, and addressed as set forth above. If sent by fax, communication shall be effective or deemed to have been given twenty-four (24) hours after the time set forth on the transmission report issued by the transmitting facsimile machine, addressed as set forth above. For purposes of calculating these time frames, weekends, federal, state, County or City holidays shall be excluded.

## **21. MISCELLANEOUS PROVISIONS**

- a. Each undersigned represents and warrants that its signature herein below has the power, authority and right to bind their respective parties to each of the terms of this Agreement, and shall indemnify City fully, including reasonable costs and attorney's fees, 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.
- b. All Exhibits referenced herein and attached hereto shall be incorporated as if fully set forth in the body of this Agreement.

[Signatures on the following page]

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the date and year first above written.

**ATTEST:**

**CITY OF SANTA ANA**

\_\_\_\_\_  
Daisy Gomez  
Clerk of the Council

\_\_\_\_\_  
Kristine Ridge  
City Manager

**APPROVED AS TO FORM:**

SONIA R. CARVALHO  
City Attorney

By: Jose Montoya  
Jose Montoya  
Assistant City Attorney

**CONTRACTOR:**

Miguel A. Hernandez  
Name: Miguel A. Hernandez  
Title: Associate

**RECOMMENDED FOR APPROVAL:**

\_\_\_\_\_  
Nabil Saba, P.E.  
Executive Director  
Public Works Agency

## **EXHIBIT A**

**CITY OF SANTA ANA**  
**REQUEST FOR PROPOSALS**  
**FOR**  
**ON-CALL WATER RESOURCES ENGINEERING SERVICES**  
**RFP NO. 22-002**

**INTRODUCTION/BACKGROUND**

The City of Santa Ana intends (City) to select several qualified firms to provide professional services for a variety of projects and programs on an as-needed or “on-call” basis. Each firm selected will enter into a Professional Services Agreement to provide such services. Throughout the term of the Professional Services Agreement, the City may request task order proposals for individual projects and/or programs as the need for such services arises. The task order proposal fee shall be based on the hourly rates provided by the firm in response to this RFP.

If a task order proposal is selected, a Notice-to-Proceed will be issued based on an agreed-upon specific scope of services and fee for that task order. The firm may utilize in-house staff and/or sub-consultants to complete each task order. **For specialized work for which the prime consultant shall require a sub-consultant, the prime consultant shall serve as an administrative liaison between the City and the sub-consultant, and include these administrative costs in their proposed project management fees.**

**Prime consultant mark-ups for sub-consultant work will not be allowed.**

**SCOPE OF SERVICES**

Provide professional engineering services for planning, design, and construction support for domestic water, recycled water, sanitary sewer, storm sewer, and related facility projects.

In general, each task order shall include, at minimum, the following project management services:

- Project Schedule

Create schedules with the critical milestones for the major tasks involved in a project. Update the schedule monthly, or more often, as required by the City. Schedules shall be submitted in PDF format unless other format is requested by the City.

- Meetings

Attend meetings and/or job walks, as requested by the City. Prepare meeting agendas and meeting minutes.

- Monthly Project Status Report

Prepare Monthly Project Status Reports that show an accurate accountability of work effort rendered and a continuous appraising and monitoring of both work progress and financial conditions on a project.

The fee for project management services, including time and related expenses, shall be included in each task order proposal.



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Firms may propose on any category listed below (1-5). The services to be performed may include, but shall not be limited to, the following:

**1. PLANNING, RESOURCES, AND DESIGN**

Provide water engineering services to conduct water capital improvement projects, which may involve one or multiple disciplines, including planning studies, hydraulic modeling, feasibility studies, design of pipelines, wells, pump stations, pressure regulating stations, reservoirs, water quality and water treatment, waste and recycled water quality and treatment, hydrogeology, engineering support during construction, and encompassing associated services such as Architecture, Structural, Civil, Mechanical, HVAC, Landscape Architecture, Geotechnical, Environmental, Electrical, Instrumentation, and Control.

a. Planning Studies and Feasibility Studies

Provide engineering, financial, and planning services to perform pipeline alignment and facility siting studies, water system planning studies, recycled water system planning and feasibility studies, water demand and supply studies, rate studies, asset management, and other studies that may be required in water system planning. Provide consulting services related to water resources and conservation. Studies may include water supply assessments, water supply verifications, urban water management plans, water use surveys and others studies that may be required for water resources and conservation programs

b. Hydraulic Modeling

Perform Water System Master Planning including Comprehensive Studies, Hydraulic Analysis, Transient Analysis, Fire Flow Analysis, and Flow Optimization.

c. Condition Assessment

Provide comprehensive condition assessment of the City's water system, including seismic, structural, security and vulnerability. Assessment of the structural integrity of the pipe shall include identifying leaks, pipe damage, pipe defect, loss of pipe wall thickness due to corrosion or erosion, etc., along the length of the pipe. Provide reports and memorandums with maps and exhibits as required to detail results of the study including likelihood of failure, risk and consequence of failure. Reports and/or technical memorandums shall also include detailed explanation of data collected and used for the study, any assumptions made as well as recommendations for short-term and long-term risk mitigation strategies.

d. Design Services

Provide consulting services for the design of water facilities, including water wells, pump stations, pressure regulating stations, reservoirs, water quality and treatment, water mains,

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recycled water supply and distribution facilities, associated appurtenances, as well as other related components of the facilities such as buildings, landscape, grading, drainage, etc. for a complete and operative project.

e. Other Related Services

Provide other related services including, but not limited to, the following:

i. Architecture

Provide consulting services for architectural design, architectural renderings, line-of-sight analyses, building sections, code interpretation issues and other architectural related issue.

ii. Structural

Provide consulting services for structural investigations of the City's existing facilities, seismic analysis, miscellaneous structural calculations, and design on the City's existing and proposed systems and structures.

iii. Civil

Provide consulting services for general engineering services as required for the project. Scope of work may include but is not limited to site design, street improvements, grading, drainage, preparation of Water Quality Management, Erosion Control, and Stormwater Pollution Prevention Plans, and related calculations and reports as necessary.

iv. Mechanical, HVAC

Provide consultation, engineering, and design services on modification, upgrade, and replacement of existing mechanical and HVAC systems, including piping, plumbing, support systems, controls, code interpretation, and related calculations as necessary.

v. Landscape Architecture

Provide consulting services for landscape architecture design, including landscape planting plans, renderings and views of proposed landscape plantings, and landscape installation inspection services. Provide consultation for irrigation system design and inspection.

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vi. Geotechnical Engineering Services

Conduct geotechnical investigations, including field explorations and tests, laboratory tests, and seismic investigations, to assess the general conditions of a project site area and prepare geotechnical reports of final design and construction recommendations. Field explorations may require drilling plans and classification of underlying soils and must be done under the supervision of a licensed geotechnical engineer or registered geologist. Investigations may include slope stability analysis of reservoir embankments, foundations, retaining walls, and dams and earthen dam monitoring and inspection to comply with California Department of Water Resources, Division of Safety of Dams (DSOD) and other City requirements. Provide seismic hazard analyses and site-specific seismic criteria, as needed, for project design.

vii. Hydrogeology

Provide consulting services on groundwater issues related to and including rehabilitation of existing potable water production wells, siting and design of new potable water production wells, destruction of inactive wells, evaluation of contamination plumes, and groundwater modeling. Evaluate the hydrogeology of proposed potable water production well sites and investigate proposed wells. Determine design parameters and requirements necessary to drill, operate, and maintain proposed wells; proposed well construction (casing diameter, locations of perforated intervals); and proposed operation of wells. Prepare Drinking Water Source Assessment and Protection (DWSAP) plans for proposed potable water production wells.

Provide inspection, hydrogeologic analysis and recommendations during new potable water production well drilling and existing well destruction activities, including, but not limited to, on site consulting geologists, geological sampling and formation analysis, geophysical logging and interpretation, sieve analyses, final well construction recommendations, and quality assurance and assistance in achieving conformance with the construction specifications and applicable codes and standards.

viii. Environmental Compliance Services

Provide consulting services for the preparation of environmental documents and support studies to comply with California Environmental Quality Act (CEQA), which may include an Initial Study, Negative Declaration, Mitigated Negative Declaration, Addendum, or Environmental Impact Report, or Supplement or Subsequent EIR, National Environmental Policy Act (NEPA) when complying

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with federal grants, permit applications with support studies, aesthetic simulations, and other environmental compliance tasks that may be needed.

ix. Recycled Water Compliance

Provide assistance with compliance requirements for recycled water treatment and distribution system monitoring and reporting.

x. Electrical, Instrumentation & Control Services

Provide consultation, engineering, and design services on modification, upgrade, troubleshooting, restarting, adjusting control settings, and replacement of existing electrical systems, including motor control centers, motor starters, electrical panels, and instrumentation and control systems, including SCADA systems.

xi. Engineering Support During Bidding and Construction

Review and respond to RFI's and review and approve shop drawings submitted by contractor for conformance with the contract documents. Review progress reports and payments as required. Prepare supplementary sketches and details, as required, to resolve field construction problems that may be encountered. Provide project inspection as needed. Provide assistance in ensuring regulatory compliance, as needed. Prepare the "as constructed" corrections to the original drawings and specifications. Attend meetings on behalf of the City and assist in Public Relations, as needed.

xii. Plan Check Services

Provide consulting services for plan checking improvement plans to determine compliance with applicable standards, guidelines, policies, rules, ordinances, and codes.

## **2. CONSTRUCTION MANAGEMENT**

Provide construction management and inspection services during construction. The tasks of construction management and inspection shall include, but not be limited to:

a. Construction Management and Coordination with Contractor

Provide construction management and coordinate as needed for the project. Review and coordinate construction schedule and activities; conduct and attend meetings on behalf of the City. Provide permit compliance documentation, follow up, and support for all permits and clearances required on a project. The construction management team may also be asked to attend meetings and assist in maintaining public relations as needed.

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b. Project Administration

Provide review of, recommend, and prepare change order(s) and/or extra work order(s) as needed on construction project. Coordinate and process RFI's and shop drawings submittals, and ensure construction conformance with the contract documents. Review and adjust progress pay estimates prepared and submitted by the contractor for conformance with the contract documents.

c. Construction Inspection

Provide construction inspection by qualified inspectors and maintain daily inspection reports, construction progress reports, and project logs, etc., of the progress of the construction work. Secure record drawing information from the construction contractor. Provide start-up support for a Project, including final acceptance testing, support, and final completion sign off. Prepare the Final Construction Report.

**3. PIPELINE DESIGN**

Provide consulting services for the design of water mains, transmission mains, siphons and associated appurtenances. Provide preliminary and final design services including the preparation of plans, specifications, and cost estimates. Provide bidding assistance, construction support, and final as-builts as needed for projects.

**4. ELECTRICAL, INSTRUMENTATION & CONTROL SERVICES**

Provide consultation, engineering, and design services on modification, upgrade, troubleshooting, restarting, adjusting control settings, and replacement of existing electrical systems, including motor control centers, motor starters, electrical panels, and instrumentation and control systems, including SCADA systems components, instrumentation, communication system components, security cameras, door/gate access controls, information technology for SCADA system and cybersecurity support for PLC/HMI/OIT software and custom applications for the City Water System.

**5. GEOTECHNICAL ENGINEERING SERVICES**

Conduct geotechnical investigations, including field explorations and tests, laboratory tests, and seismic investigations, to assess the general conditions of a project site area and prepare geotechnical reports of final design and construction recommendations. Field explorations may require drilling plans and classification of underlying soils and must be done under the supervision of a licensed geotechnical engineer or registered geologist. Investigations may include slope stability analysis of reservoir embankments, foundations, retaining walls, and dams and earthen dam monitoring and inspection to comply with California Department of Water Resources, Division of Safety of Dams (DSOD) and other City requirements. Provide seismic hazard analyses and site-specific seismic criteria, as needed, for project design.

**CITY OF SANTA ANA**  
**REQUEST FOR PROPOSALS**  
**FOR**  
**ON-CALL WATER RESOURCES ENGINEERING SERVICES**  
**RFP NO. 22-002**

Proposals shall explicitly state which category listed above (1-5) is being proposing on. If there are any exceptions to the core of requested services above, proposers shall list said exceptions in their proposal (matrix form).

**GENERAL REQUIREMENTS AND PROJECT DELIVERABLES**

The Consultant's services for plans specifications and estimates (PS&E) for engineering projects and special studies/investigations shall be in conformance, if applicable, with the following: Title 24 of the California Code of Regulations (California Building Standards Code), American Water Works Association, California Department of Transportation, Americans with Disabilities Act, City of Santa Ana Municipal Code (SAMC), professional Standards established by the City, and any other federal, state, or local guidelines required in the project.

As part of the PS&E package, the Consultant shall prepare the special provisions pertaining to the items of work included in the plans that are not addressed on the latest editions of the applicable standards.

The Consultant shall have complete responsibility for the accuracy and completeness of all documents and plans prepared. The plans will be reviewed by the City of Santa Ana for conformity with the requirements of the Agreement. Reviews by the City of Santa Ana DO NOT include detailed review or checking of design for the accuracy with which such designs are depicted in the documents and the plans. The documents and plans furnished under the Agreement shall be of a quality acceptable to the City of Santa Ana. The criteria for acceptance shall be a product of neat appearance, well organized, technically and grammatically correct, checked and dated, and having the maker and checker identified.

The Consultant shall have project management control procedures in effect during the entire time work is being performed under the Agreement. This task shall include the following:

- Project Management Plan- the consultant shall provide a detail management plan including information and coordination with other agencies to ensure compliance and completion of the (PS&E) packages. This plan shall include all milestones and task breakdown for each of the tasks and subtasks included therein. The project management shall be submitted to the Project Manager for review and within 15 calendar days of the issued Notice to Proceed
- Deliverables
- Quality Control/Quality Assurance (QA/QC) Plan
- Project Schedule/Invoicing
- Project Correspondence

**CITY OF SANTA ANA**  
**REQUEST FOR PROPOSALS**  
**FOR**  
**ON-CALL WATER RESOURCES ENGINEERING SERVICES**  
**RFP NO. 22-002**

In case of conflict, ambiguities, discrepancies, errors, or omissions, the consultant shall submit the matter to the City for clarification.

**CITY RESPONSIBILITIES**

The City will provide information in its possession relevant to the preparation of the required information in the RFP. The City will provide only the staff assistance and the documentation specifically in referred to herein.

- Furnish scope of work and provide general direction as needed for the assigned project
- All plan check coordination within the City
- Advertise, award, and administer of construction contract
- Electronic files (sample plans & specifications, City of Santa Ana's CADD Standards)
- Electronic files for title sheets and sheet borders
- Facilitate meeting space and coordination and City facilities

**FEE PROPOSAL**

In addition to Section III.B.3 (Submittal Requirements: Fee Proposal) fee schedule shall be structured as follows:

**The fee proposal shall include the firm's standard hourly fee schedule, and/or project fee schedule where applicable and as outlined in this document. A list of all positions and hourly rates required to perform the services described herein.**

**A more detailed scope of work will be provided when/if a Task Order proposal is requested of a consultant. All tasks orders shall include the staff title, hours, hourly rate and totals as related to the project.**

**OTHER TERMS AND CONDITIONS**

1. The project will be implemented in compliance with the City of Santa Ana's policies, as well as Prevailing Wages and State/Federal Requirements.
2. The City regards the inclusion of California based designs, engineering, and construction professionals, facilities, and services as part of the Team to be highly desirable, but not mandatory.

**CITY OF SANTA ANA**  
**REQUEST FOR PROPOSALS**  
**FOR**  
**ON-CALL WATER RESOURCES ENGINEERING SERVICES**  
**RFP NO. 22-002**

3. The City reserves the right to amend this Request for Proposal by addendum prior to the final dates of submission.
4. All reports, proposals, or other data or materials which are submitted shall become the sole property of the City of Santa Ana with the exception of the confidential Financial Capacity information and fee proposals.
5. All products used or developed in the execution of any contract resulting from this request will remain in the public domain at the completion of this project.
6. The City has an affirmative action program. The purpose of the affirmative action program is to encourage certified minority business enterprises and women business enterprises. All submitting firms must have established affirmative action programs approvable by the City. During the RFP stage, all firms will need to complete a “Certification of Non-Discrimination by Contractors” for each firm on their team.



## **EXHIBIT B**

The background of the document is a photograph of the exterior of City Hall. The building has a modern design with large glass windows and a prominent entrance. A large, dark gray circular graphic is superimposed over the center of the image, containing the main title and other text. The words "CITY HALL" are visible in large, white, sans-serif capital letters on the building's facade above the entrance.

CITY HALL

# CITY OF SANTA ANA

ON-CALL WATER RESOURCES  
ENGINEERING SERVICES

RFP NO. 22-002

*May 24, 2022*

PREPARED BY:

**HUITT-ZOLLARS**

2603 Main Street, Suite 400  
Irvine, CA 92614  
(949) 988-5815

# HUITT-ZOLLARS

## CORPORATE IDEOLOGY

PURPOSE + CORE VALUES + GOAL + COMMITMENT = SUCCESS

To constantly improve  
the quality of life in  
our world.

### QUALITY

To achieve the highest  
level of quality in  
everything we do.

### INTEGRITY

To always conduct  
ourselves with  
consummate integrity.

To be the very  
best in our  
industry.

To be unrelenting in the pursuit of  
our goal, while always maintaining  
our sense of purpose and never  
compromising our core values.

Huitt-Zollars  
"The Very Best"

### EXCELLENCE

To achieve client  
satisfaction through  
uncompromised  
personal service.

### ENVIRONMENT

To provide the appropriate  
environment for people to  
work, grow, and prosper.

### PROFITABILITY

To maintain consistent  
growth and a reasonable  
profit in order to perpetuate  
a healthy company.

### INNOVATION

To always strive to  
advance our services  
to new horizons.

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# COVER LETTER

## 1. STATEMENT OF QUALIFICATIONS

May 24th, 2022  
Mr. Robert Aguirre, PE  
City of Santa Ana, Public Works Agency  
220 S. Daisy Ave., M-85  
Santa Ana, CA 92701

**RE: Request for Proposals (RFP) No.: 22-002 - On-Call Water Resources Engineering Services**

Mr. Aguirre,

Huitt-Zollars, Inc. (HZ) has been serving in Orange County for more than 35 years and looks forward to continuing our relationship with the City of Santa Ana with this On-Call Water Resources Engineering Services. HZ is a full-service Architecture-Engineering firm with qualified staff capable of completing the assignments described in the RFP.

Our recent project completions and ongoing projects highlighted in this proposal demonstrate our team's direct experience and well planned cost-effective approach with Public Works assignments. Our team is currently serving the City of Santa Ana through their On-Call as well as the cities of Orange, Anaheim, Fullerton, Huntington Beach, Laguna Hills, Laguna Niguel, Mission Viejo, San Clemente, San Juan Capistrano, Yorba Linda, Long Beach, Chino, Fontana, Ontario, Calabasas, and Thousand Oaks.

Our Project Manager Miguel A. Hernandez, PE, PLS, QSD brings a proven record in multi-disciplinary engineering assignments with Public Works entities. He is currently serving the City of Santa Ana with several projects via the 2019 On Call. Miguel understands the importance of proactive communication and quality control in the timely delivery of a project. He will be assisted by other in-house professionals showcased in the team experience section of this proposal.

Our team is dedicated to providing additional high-quality products to the City of Santa Ana. This proposal is signed by Jeffrey Okamoto, Vice President and Managing Principal, an officer with authority to bind the company. Should you have any questions, please feel free to contact the Project Manager, Miguel Hernandez, at [mhernandez@huitt-zollars.com](mailto:mhernandez@huitt-zollars.com) or at (949) 988-5815 Extension 11169.

Sincerely,

HUITT-ZOLLARS, INC.

Jeffrey Okamoto, PE  
Vice President/Managing Principal  
CA PE No. 46049

# B CONTRACT AGREEMENT

Huitt-Zollars has read and can execute the standard professional services contract included with the REQUEST FOR PROPOSALS (RFP) FOR ON-CALL WATER RESOURCES ENGINEERING SERVICES RFP No.: 22-002 issued on May 2, 2022.

All City of Santa Ana projects will be implemented in compliance with the City's policies and regulations. Huitt-Zollars is encouraged by the City's affirmative action program and will identify teaming opportunities with Minority Business Enterprises (MBE) that are approvable by the City.

## C FIRM & TEAM EXPERIENCE

For more than 47 years, Huitt-Zollars, Inc. has provided professional design services including work successfully completed for agencies such as City of Santa Ana, Orange County Transportation Authority, City of Santa Fe Springs, and the City of Downey.

Huitt-Zollars, Inc. is a full-service engineering and architectural firm with 20 regional offices. Established in 1975, the firm has a staff of more than 490 professional, technical, and support personnel with diversified skills, capable of handling highly complex multidiscipline and concurrent assignments. The firm is ranked as a top design firm by Engineering News-Record and Architectural Record.

Our full-service approach gives us a strong advantage in coordinating work on complex assignments. Our hands on management by the principals of the firm results in a client-directed sense of urgency and commitment to quality, schedule, and budget. It also affords coordination beyond the prime/consultant organization because in house lines of communication are firmly established and easy to maintain. This arrangement also provides a single focus for the project, resulting in smoother progression; efficient designs that balance function, economics and aesthetics; and construction documents that incorporate our client's objectives. Huitt-Zollars can take a project from start to finish, from initial study through design process, to construction management. With the Huitt-Zollars' engineering department's base of operations located in Irvine, our firm will be able to respond efficiently to meet Santa Ana's needs.

### ON-CALL CONTRACTS

» City of Santa Ana	» City of Yorba	» OC Public Works
» City of Huntington Beach Water Quality	Linda	» Los Angeles County
» Riverside County FCD	» City of Santa Fe	Department of Public Works
» City of Mission Viejo	» City of Downey	» OmniTrans
	» City of Long Beach	
	» Santa Margarita Water District GIS	

### IMPROVEMENT PLANS

» The Sanitary Sewer Septic to Gravity Conversion	» Study
» Lacy Neighborhood Water Replacement	» El Camino Real/Paseo Peregrino Wall
» French Park Water Replacement	» Street of the Golden Lantern Median Reductions
» Lost Hills/US 101 Interchange	» Maintenance Service Center Solar Canopies
» Montalvo Canyon Drainage	

### PARKS & TRAILS

» Walnut Grove Park	» La Quinta Park
» Anaheim Cove Recreation Trail	» Liberty Park Improvements
» West San Gabriel River Trail	» Adelana, Byerrum & Valencia Park Renovations
» Eastside Community Park Phase 2	» Wishing Tree Park

### AWARD WINNING PROJECTS

#### ORTEGA HIGHWAY (SR 74) ROAD WIDENING

- Partnership Award by the Orange County Business Council

#### LADERA RANCH STORM WATER SYSTEM

- Project of The Year Award

#### SAN JOAQUIN HILLS TRANSPORTATION CORRIDOR

- Project of the Year Award

#### LAGUNA BEACH STAIRWAY AND STORM DRAIN IMPROVEMENTS

- Engineering Public Works Award



# SUBCONSULTANTS

Through teaming strategies, HZ has added many services including geotechnical engineering, and sub-surface investigations. Our proposal includes local MBE Firms we have worked with in the past. These team members are on the current Santa Ana On-Call and they have also served the City of Santa Ana.

## C BELOW SUBSURFACE IMAGING

C Below Subsurface Imaging (C Below) offers professional locating and mapping services throughout Southern California. They locate horizontal and vertical locations of underground utilities including water, gas power, waste, communications, and cable/TV. Many different methods are used to locate these utilities including GPR, CCTV, utility locators, electromagnetic locators, and potholing.

### Services:

- » Subsurface Investigation
- » Locating
- » Mapping
- » Utility Trenching

## CONVERSE CONSULTING

Converse has delivered soils and materials testing and inspection services to public municipalities and private agencies in Southern California for over 75 years. They are currently providing or have recently provided services under annual contracts with many major Southern California cities, including Los Angeles, Riverside, and San Bernardino. Their full-service in-house laboratories can perform all geotechnical testing that may be required for your projects. Converse's laboratories are approved by various certifying agencies, including Caltrans, DSA, and CCRL, and are supervised by a registered civil engineer to ensure quality control. All equipment is calibrated regularly, and our laboratory services are available 24 hours a day, 7 days a week

### Services:

- » Geotechnical Engineering

## ECORP CONSULTING, INC ECORP Consulting, Inc. ENVIRONMENTAL CONSULTANTS

ECORP is experienced in the preparation of Preliminary Environmental Study (PES) forms for projects per Caltrans' Local Assistance Procedures (LAPM). ECORP has used the PES form to consult with Caltrans/FHWA to determine the appropriate NEPA and CEQA document for a project. ECORP staff have prepared Categorical Exclusions/Exemptions (CE/CEs), Environmental Assessments (IS/EAs) and Mitigated Negative Declaration/ Finding of No Significant Impacts (MND/FONS[s]) for a series of projects with Caltrans involvement. ECORP has experience working on CEQA/NEPA, biological, and cultural projects for several districts, including the City of Santa Ana.

### Services:

- » Environmental Services

# ORGANIZATION CHART

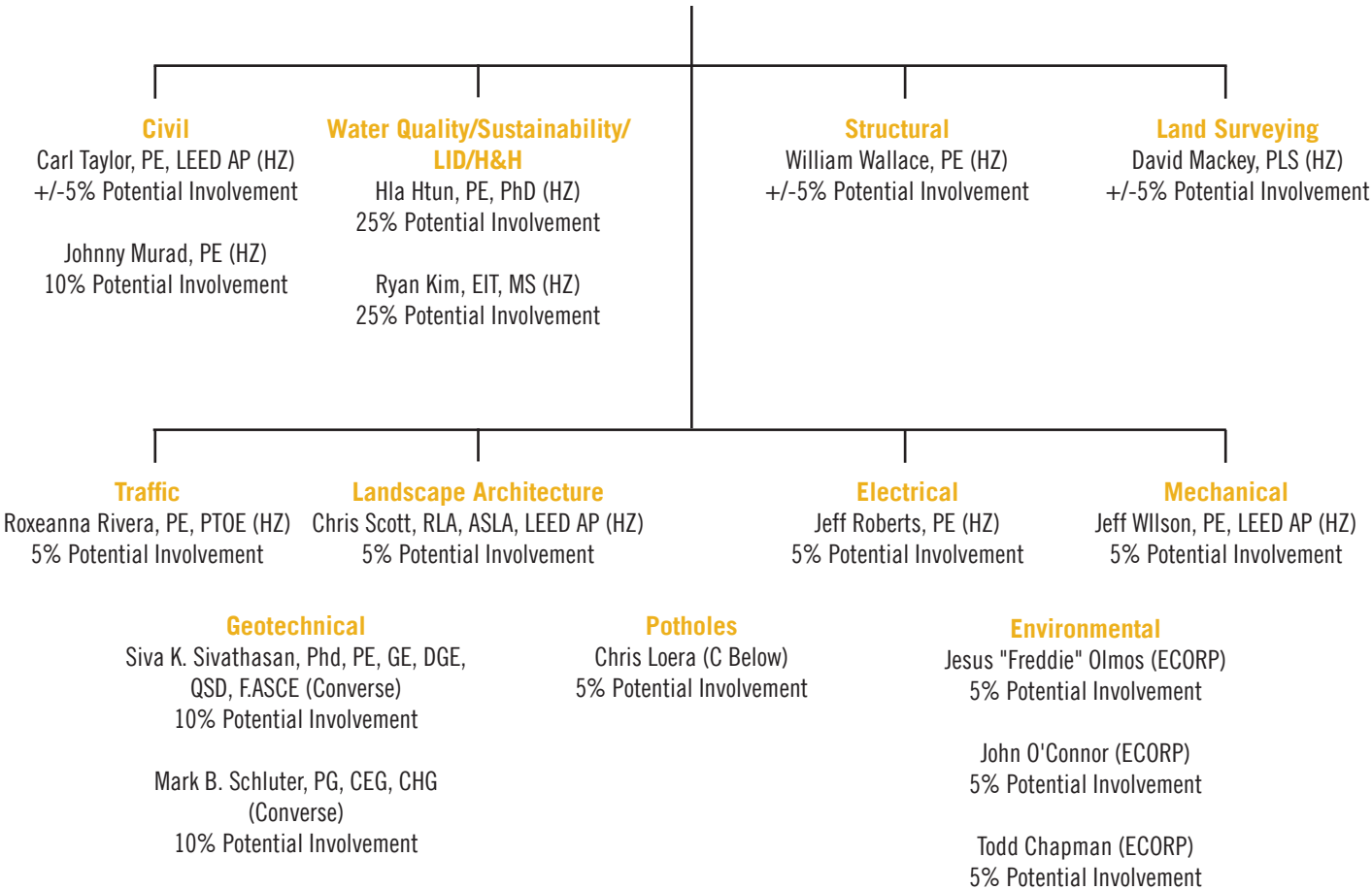
The principals and professionals you see in the organization chart will be the same professionals you will see throughout the life of the project. Keeping the continuity of information and decision-making funneled through our professionals, is critical to project success. The Huitt-Zollars’ design team will be further supported by the current staff of over 490 professionals, committing our depth of resources to respond to your project. Our Project Manager will act as the single point of contact.



Legend
Huitt-Zollars, Inc. (HZ)
Ecorp (EC)
Converse Consulting (CC)

**Principal-in-Charge / QA-QC**  
 Marc Haslinger, PE (HZ)  
 +/-5% Potential Involvement

**Project Manager**  
 Miguel Hernandez, PE, PLS, QSD (HZ)  
 40% Potential Involvement





# KEY PERSONNEL RESUMES



## MIGUEL HERNANDEZ, PE, PLS, QSD

*Project Manager - Huitt-Zollars*

Miguel Hernandez has more than 26 years of experience in Public Works and is proficient with the design of streets, highways, sewer, water, storm drain, grading, hydrology and hydraulics. His experience combined with his ability to communicate will make him a valuable asset to a project. As a Project Manager he will be helpful in coordinating all design inclinations and finding the appropriate balance. When critical deadlines need to be met his proven ability to work under pressure will be invaluable.

### EXPERIENCE

26 Years

### EDUCATION

BS, Civil Engineering  
- Cal Poly San Luis  
Obispo

### REGISTRATION

Professional Civil  
Engineer:  
California #61378

Professional Land  
Surveyor: California  
#8735

*\* Refer to page 9 for  
project description*

### RELEVANT PROJECT EXPERIENCE

#### **Citywide Sanitary Sewer and Domestic Improvements - Santa Ana, CA\***

##### **LA Harbor College 3 Stormwater Project - Wilmington, CA**

LACCD is required to comply with the upcoming Phase II MS4 Permit post-construction requirements. Plans, specifications, estimates, and construction support were provided for 2-acre-feet of subsurface infiltration chambers and 15,000 SF of raised medians retrofitted with biofiltration systems, associated storm drain, sewer, parking lot, electrical, architectural improvements. Upgrades to improve aging utility infrastructure, and incorporate American with Disability Act requirements on campuses. Structural, accessibility, and fire & life safety requirements from DSA are addressed as part of the design.

##### **Pierce, Valley and Harbor Colleges Sewer Assessments**

The assessments brought together the expertise and knowledge of LACCD and HZ civil engineering staff to provide a focused analysis of the sewer system at Pierce, Valley and Harbor Colleges. The services include comprehensive reviews of past work, plans, and a site visit to evaluate over 40,000 linear feet of sewer line and manholes. To determine the integrity of sewer pipes our staff reviewed past reports, watched CCTV video, analyzed photos, considered recommendations in the sewer pipe engineering manuals, interviewed plumbing staff at each college, and performed visual inspections. Our work involved planning for complete rehabilitation that extended the life of the current sewer system. It also delivered engineer's estimates of probable construction cost to restore the existing infrastructure in the most cost-effective manner. Our proposed planning alternatives build on existing information, assume common engineering practices, and assume common soil compaction practices to install sewer pipe and construct sewer manholes.

##### **Oakmont Park and Live Oak Canyon Creek Design Evaluation and Repair - Redlands, CA**

Huitt-Zollars performed hydrologic, hydraulic, geomorphic, and geotechnical investigations were performed to characterize the conditions that have led to the existing degradation of the creek bed and lateral erosion of the creek banks. In Oakmont Park, upstream development increased the higher discharge rates and limited sediment supply causing lateral meander movement. Existing check dams have failed due to a lack of embedment that would have otherwise helped protect against undermining. Repairs to further erode laterally towards Live Oak Canyon Road. Huitt-Zollars identified a preferred erosion control alternative based on constructibility, cost, environmental constraints, and effectiveness. The preparation of plans, specifications, estimates mitigates the conditions by specifying riprap to protect the toe of Live Oak Canyon Creek, and a series of 4-foot tall grade control structures made of gabions constructed at 70-foot intervals.



## MARC HASLINGER, PE

*Principal-In-Charge - Huitt-Zollars*

EXPERIENCE  
35 Years

EDUCATION  
BS, Civil Engineering  
- California State  
University at Long  
Beach

REGISTRATION  
Professional Civil  
Engineer:  
California #49158

Having experience in both the public and private engineering sectors, Marc Haslinger brings a broad wealth of experience to his jobs. He has managed and designed numerous municipal, residential, and commercial projects throughout Southern California from initial planning and feasibility studies through final design, construction, and construction management. His experience has included residential, commercial, and industrial developments; potable and reclaimed water transmission mains and flood control facilities; roadway improvements; and construction management. Haslinger is well-versed in the tools of construction management, contract administration, planning, design, and processing.

Complementing Haslinger's project management capabilities is a hands-on approach and technical knowledge of computer programs in the area of coordinate geometry, hydraulics, hydrology, structures, spreadsheets, critical path networking, management, and other tools necessary for a successful project.

### RELEVANT PROJECT EXPERIENCE

**Citywide Sanitary Sewer and Domestic Improvements** - Santa Ana, CA

**Western Avenue Rehabilitation** – Buena Park, CA

**Irvine Center Drive, Sand Canyon to Barranca Parkway** – Irvine, CA

**Irvine Center Drive, I-405 Freeway to Lake Forest Drive** – Irvine, CA

**Bake Parkway, I-405 to Irvine Center Drive** – Irvine, CA

**City of Dallas Facilities Capital Planning, Design and Construction** - Dallas, TX\*

## CARL TAYLOR, PE, LEED AP

*Civil Engineer - Huitt-Zollars*



EXPERIENCE  
40+ Years

EDUCATION  
BS, Civil Engineering -  
University of California  
at Berkeley

REGISTRATION  
Professional Civil  
Engineer:  
California #30924

LEED AP, 2008

Carl Taylor has a strong background in public infrastructure projects. He has worked on arterial highways and intersections, local and neighborhood streets, master plan and local storm drains, city and community parks, trails, streetscapes, vehicular and pedestrian bridges, city halls, libraries, community centers, memorials and plazas, parking lots, sewer and water facilities, and pedestrian and bicycle/pedestrian trails. During his professional career, Taylor has provided plans, specifications, estimates, and construction administration and support for numerous city, county, redevelopment agency, federal, and community facilities district projects.

### RELEVANT PROJECT EXPERIENCE

**OC Parks On-Call Projects** – Orange County, CA

- » Mathis Trail Repair, Aliso & Wood Canyons
- » Creek Restoration, Wagon Wheel Regional Park
- » General Development Plan, OC Zoo
- » Santiago Creekbank Repair at Arden Modjeska
- » Historic Site, Modjeska Canyon Nature Preserve
- » Tijeras Creek Trail Repair, O'Neill Regional Park
- » Trail Crossing Replacement, Santiago Oaks Regional Park
- » Wagon Wheel Creek Restorations, Thomas F. Riley Wilderness Park

**Oso Parkway & Antonio Parkway Intersection Improvements** – Orange County, CA

**Center Street** – Anaheim, CA

**Townsend Place** – Pasadena, CA



## HLA HTUN, PE, PHD

*Hydrology & Hydraulics - Huitt-Zollars*

Dr. Htun is a Professional Engineer with more than 10 years of experience specializing in surface water modeling, hydraulic design, and water resource management.

Currently, he conducts hydrological and hydraulic studies for urban development. He designs and analyzes energy dissipators for a major arterial highway improvement against downstream erosion. He designs Low Impact Developments for flood control and hydrologic condition of concern while preparing the Water Quality Monitoring Report, Drainage Report, and Stormwater Pollution Prevention Plan.

### RELEVANT PROJECT EXPERIENCE

**East Los Angeles College East and Corporate Stormwater** – Monterey Park, CA  
Huitt-Zollars is currently working with the College Project Team and BuildLACCD to program, approve, and design stormwater harvest-and-biotreat systems at the Corporate Center and for the East Drainage area on East Campus. Underground collection systems include storm drain, diversion vaults, pump vaults, valve and manometer vaults, controls, and electrical connections. Biofiltration basins are designed per CASQA Standards. At the East Campus, raised biofiltration planters are proposed as an amenity for LA Metro bus riders. Huitt-Zollars coordinated with the City of Monterey Park to review the scope of work at both locations, and identify a setback from the existing sewer line along Avenida Cesar Chavez.

**City of Huntington Beach McCallen Park Revised PS&E** – Huntington Beach, CA

**East Los Angeles College East and Corporate Stormwater** - Monterey Park, CA

**McCallen Park Water Quality Improvements** - Huntington Beach, CA

**EXPERIENCE**  
10 Years  
**EDUCATION**  
2005 Bachelor  
of Science, Civil  
Engineer, Yangon  
Technological  
University Myanmar  
2011 Master of  
Science, Civil  
Engineering, California  
State University, Long  
Beach  
2018 PhD Natural  
Resources &  
Environmental  
Management,  
University of Hawaii at  
Manoa  
**REGISTRATION**  
Professional Civil  
Engineer:  
California #80108



## RYAN KIM, EIT, MS

*Hydrology & Hydraulics Engineer-in-Training - Huitt-Zollars*

Ryan Kim is an Engineer-in-Training with 3 years of experience. He has had ample experience in stormwater infrastructure design using a variety of hydrologic and hydraulic softwares for urban development and public works projects. He has been responsible for the corresponding plans, specifications, and estimates in addition to the drafting of technical reports.

### RELEVANT PROJECT EXPERIENCE

**Environmental CEQA Mitigated Negative Declaration Preparation** - Santa Ana, CA

**Cypress Avenue MPD System T-2 Storm Drain and Street Improvements** - Fontana, CA

**Baseline Road Storm Drain Project** - Rialto, CA

**1193 W Merrill Ave St. Widening** - Rialto, CA

**Oakmont Park and Live Oak Canyon Creek Design Evaluation and Repair** - Redlands, CA

**East Los Angeles College Northeast Drainage Stormwater** - Monterey Park, CA

**East Los Angeles College East and Corporate Stormwater** - Monterey Park, CA

**Los Angeles Mission College South Arroyo Storm Water** - Sylmar, CA

**EXPERIENCE**  
3 Years  
**EDUCATION**  
2019 Master of  
Science, Water  
Engineering, CA  
Polytechnic State  
University, San Luis  
Obispo  
2016 Bachelor of  
Science, Hydrological  
Sciences, UC Santa  
Barbara  
**REGISTRATION**  
Engineer-in-Training:  
California #169163



## DAVID MACKEY, PLS

*Land Survey - Huitt-Zollars*

David Mackey has 23 years of experience in the preparation of a wide range of mapping projects including ALTA/ACSM Land Title Surveys, Topographic Surveys, Subdivision maps such as Tract Maps, Parcel Maps, and Condominium Plans, Records of Survey preparation, Boundary Analysis, the preparation of legal descriptions, and construction surveying projects.

### EXPERIENCE

23 Years

### EDUCATION

Bachelor of Science,  
Civil Engineering,  
Survey Engineering  
Option, California  
State Polytechnic  
University, 2001

### REGISTRATION

Professional Land  
Surveyor: CA #8912

Engineering In  
Training: CA #111544

### RELEVANT PROJECT EXPERIENCE

**Topographic Survey Santa Anita Park** - Santa Ana, CA  
**Alton Avenue Overcrossing** - Santa Ana, CA  
**Flower St. Bike Trail Survey** - Santa Ana, CA  
**Bristol St. Topographic Survey** - Santa Ana, CA  
**Sewer Main Replacement Topographic Survey** - Santa Ana, CA  
**Monument Preservation** - Santa Ana, CA  
**Intersection Improvement 15th and Garnsey St.** - Santa Ana, CA  
**Edinger Topographic Survey Mapping** - Santa Ana, CA  
**Carl Thornton Park Topographic Survey** - Santa Ana, CA  
**Durant St. Topographic Survey** - Santa Ana, CA  
**Memorial Neighborhood Sewer Improvements** - Santa Ana, CA  
**Santiago Creek Topographic Survey** - Santa Ana, CA  
**Washington Neighborhood Sewer Improvement** - Santa Ana, CA  
**S. Garney St. Topographic Survey** - Santa Ana, CA  
**Glenwood Place CDS Water Main Improvement** - Santa Ana, CA



## CHRIS SCOTT, RLA, ASLA, LEED AP

*Landscape Architect - Huitt-Zollars*

Chris Scott is the Team Leader for Planning and Landscape Architecture for the Huitt-Zollars Dallas office. His past project experience ranges from master planning and visioning of urban land developments, community amenity design and aesthetics, hike and bike trail development, multi-family, town home, and student housing developments, commercial and retail developments, multi-use urban developments, streetscapes, manufacturing and industrial development, private and public park development, corporate campus design, restaurant and hotel development, tree preservation and identification, and federal and military housing and urban development.

### RELEVANT PROJECT EXPERIENCE

**Prima Desecha Landfill Viewshed Study- OC Waste & Recycling** – Orange County, CA  
**Coyote Canyon Viewshed Planting PS&E - OC Waste & Recycling** – Orange County, CA  
**Irvine Regional Park & Drainage Runoff Control** – Orange County, CA  
**Electric Bus Charging & Storage Lot - UCI** – Irvine, CA  
**The Landing at Riverpark** – Oxnard, CA

### EXPERIENCE

31 Years

### EDUCATION

BLA - Texas Tech  
University

### REGISTRATION

Registered Landscape  
Architect: Texas #1976  
California #5316

CNU Accredited: 2013





## ROXANNA RIVERA, PE, PTOE, LEED AP

*Traffic Engineer - Huitt-Zollars*

Rivera has more than 24 years of experience in design and project management for municipal public works, infrastructure, environmental, and hydrology and hydraulics projects. Her experience includes the design of water and wastewater infrastructure, storm sewer design, drainage area mapping, preparation of environmental documents, and construction management.

### EXPERIENCE

24 Years

### EDUCATION

MS, Environmental  
Engineering -  
University of Texas at  
El Paso

BS, Chemical  
Engineering - Texas  
A&M University

### REGISTRATION

Professional Civil  
Engineer: Texas  
#100696

Rivera has completed the Texas Department of Transportation Qualification certification for Local Government Project Procedures (LGPP) to manage federally funded programs. She has managed several design and construction projects that were funded with federal funds. She has also worked extensively with the reporting requirements with TxDOT and FHWA so that municipalities reimbursed under the terms of the Local Project Advanced Funding Agreements (LPAFA).

### RELEVANT PROJECT EXPERIENCE

**Oxnard Blvd / Wagon Wheel Road Traffic Signal** – Oxnard, CA

**Oxnard Blvd / Orchard Place Traffic Signal** – Oxnard, CA

**Oxnard Blvd / Vineyard Ave Traffic Signal** – Oxnard, CA

**Vineyard Avenue at Town Center Drive Traffic Signal** – Oxnard, CA

**Lantana Traffic Circulation Study, Lantana Community** – Denton County, TX



## JOHNNY MURAD, PE, MS, QSD

*Utility Design - Huitt-Zollars*

Johnny Murad brings 25 years of experience in civil engineering consulting. He has assisted numerous clients in site selections, feasibility studies, preliminary construction cost estimates, earthwork estimates, plan check and permit fee estimates, conceptual site planning, final design, and construction administration. His experience gives him a good understanding of project costing techniques and calculations, which can help keep the project cost at a minimum without losing efficiency and, thereby, help his clients stay within their planned project budget and maintain their strength in the market.

### RELEVANT PROJECT EXPERIENCE

**Alder Avenue, Casa Grande Drive, Summit Avenue, and Mango Avenue Sewer Improvements** – Rialto, CA

**Redlands Boulevard Sewer Improvements** – Moreno Valley, CA

**Brodiaea Avenue, Cactus Avenue, Joy Street, Gilbert Street, Rebecca Street, Frederick Street, and Heacock Street Sewer Improvements** – Moreno Valley, CA

**San Bernardino Avenue Sewer Improvements** – San Bernardino, CA

**City of Rialto, Tract No. 16304 Sewer Improvements** – Rialto, CA

### EXPERIENCE

25 Years

### EDUCATION

BS, Civil Engineering  
- California State  
Polytechnic

### REGISTRATION

Professional Civil  
Engineer:  
California #67512



## WILLIAM WALLACE, PE

*Structural Engineer - Huitt-Zollars*

William Wallace has more than 43 years of experience as a Structural Engineer. He has been involved in the design of many highly complex structures for flood control and soil and water conservation construction programs for the Corps of Engineers (COE) and the Natural Resources Conservation Service (NRCS). Projects have included reinforced concrete hydraulic structures such as trapezoidal channel paving, rectangular channels, impact basins, drop structures, retaining walls, and reinforced concrete for principal and auxiliary spillways of lakes and dams. Wallace provided the structural design or provided peer reviews of projects where the objectives of the project was to design modifications to dams and their appurtenant structures to mitigate risks related to dam safety concerns; and to meet current regulations and standards as provided by Conservation Districts, NRCS, COE, and various Departments of Water Resources.

### EXPERIENCE

43 Years

### EDUCATION

MS, Civil Engineering  
- University of Texas at  
Arlington

BS, Civil Engineering -  
University of Texas at  
Arlington

### REGISTRATION

Professional Structural  
Engineer:  
Texas: 59641

### RELEVANT PROJECT EXPERIENCE

**Oxnard Village Flood Control Facilities** - Oxnard, CA

**Cottonwood Creek Trail and Bank Stabilization** – Allen, Texas

**Rush Creek Channel Erosion Control** - Arlington, TX

**Channel Improvement Project** – Fort Worth, TX

**Brazos River Study** – TX

**Lake Ray Roberts Outletworks Conduit and Power Penstock** – Lake Ray Roberts, TX



## JEFF WILSON, PE, LEED AP

*Mechanical Engineer - Huitt-Zollars*

Jeff Wilson has served as senior mechanical engineer on several projects including private and Federal agency assignments. His experience has included new construction and facility renovations. His experience includes preparing engineering analyses and studies including energy conservation/reduction, and performing detailed HVAC design requirements and load simulations for commercial and industrial complexes. Wilson has extensive experience in Building Information Modeling.

### EXPERIENCE

18 years

### EDUCATION

BS, Mechanical  
Engineering,  
University of Texas at  
Arlington

### REGISTRATION

Professional  
Mechanical Engineer:  
California #36160

### RELEVANT PROJECT EXPERIENCE

**Fort Hood 1st Calvary Headquarters Renovation** – Fort Hood, TX

**Texas Christian University, Renovation of Colby Hall** – Fort Worth, TX

**Renovate Building B5676 and Hangar B6426 (3&4)** - Barksdale AFB, LA

**Cannon Air Force Base, Airman & Family Readiness Center** – Clovis, NM

**DTRA Data Center Renovation Building B20676** – Kirtland AFB, New Mexico



## JEFF ROBERTS, PE

*Electrical Engineer - Huitt-Zollars*

Jeffrey Roberts is an electrical engineer with experience in project management, the design of interior and exterior lighting and electrical power distribution systems, medium voltage distribution systems, HVAC systems, plumbing systems, fire protection systems, telecommunications systems, security and fire alarm systems for a diverse range of facility types. These include hospitals, schools, offices, airports, churches, multifamily dwellings, retail sales, restaurants, industrial, federal, military, Corps of Engineers, large warehousing and distribution centers and telecommunications switch facilities. He is a licensed engineer in all states and the District of Columbia.

EXPERIENCE  
31

EDUCATION  
BS, Electrical  
Engineering, LSU

REGISTRATION  
Professional Electrical  
Engineer: California  
#15292

### RELEVANT PROJECT EXPERIENCE

**Great Park Irrigation Ponds 4 & 5 - Irvine, CA**

**Replace Air Handlers at the General Services Administration Facility – Fort Worth, TX**

**Water Well and Pumping Station for Fort Polk – Leesville, LA**

**Child Development Center Renovations for Fort Polk – Leesville, LA**

**Expansion of the Social Security Administration Office for the General Services Administration – Dallas, TX**

**Replace Air Handlers at the General Services Administration Facility – Fort Worth, TX**

**High Tech Courtroom Remodel for the General Services Administration – Fort Worth, TX**



## MARK B. SCHLUTER, PG, CEG, CHG

*Senior Engineering Geologist - Converse Consultants*

Mr. Schluter has 42 years of experience in applied engineering geology, hydrogeology and geotechnical engineering. As a senior engineering geologist, he has conducted a wide range of geotechnical studies for dams, reservoirs, pipelines, pump stations, treatment plants, power substations, transmission lines, bridges, highways, mass transit projects, landslides, hospitals, colleges, schools, commercial buildings, residential developments, and groundwater studies.

### RELEVANT PROJECT EXPERIENCE

**Orange County Water District (OCWD) Groundwater Replenishment System - Fountain Valley, CA**

**Orange County Sanitation District (OCSD), P2-66 Headworks Replacement Project - Huntington Beach, CA**

**OCSD, P2-90 Trickling Filters Project - Huntington Beach, CA.**

**OCSD, Dover Drive Trunk Sewer Relief Project - Newport Beach, CA**

**City of Industry Recycled Water Project - Upper San Gabriel Valley Municipal Water District, CA**

EXPERIENCE - 42  
Years

EDUCATION -  
Graduate Studies,  
Engineering Geology/  
Ground Water  
Hydrology, CSULA,  
1984  
BS, Earth Sciences,  
California State  
Polytechnic University,  
Pomona, 1979

REGISTRATION  
CA PG No. 4527; CA  
CEG No. 1415; CA,  
CHG No. 41  
40-Hour Hazardous  
Materials Health &  
Safety Course, 29 CFR  
1910.120, 1990



## SIVA K. SIVATHASAN, PHD, PE, GE, DGE, QSD, F.ASCE

*Geotechnical - Converse Consultants*

### EXPERIENCE 28 Years

#### EDUCATION

PhD, Civil Engineering,  
University of  
California, Davis, 2002  
MS, Civil Engineering,  
University of  
California, Davis, 1997  
BS, Civil Engineering,  
University of  
Peradeniya, Sri Lanka,  
1994

#### REGISTRATION

California, Civil  
Engineer  
No. 63185  
California,  
Geotechnical Engineer  
No. 2708  
Diplomate in  
Geotechnical  
Engineering No. 1169  
CFR 1910.120 OSHA  
8-Hour Refresher  
Training  
CFR 1910.120 OSHA  
40-Hour Training  
Nuclear Soil Density  
Gauge Certification

Dr. Sivathasan is a registered civil and geotechnical engineer in California, with 28 years of geotechnical and construction experience. He is skilled at analyzing complex geotechnical problems and has prepared comprehensive reports with detailed recommendations. He also has extensive knowledge of construction projects from managing geotechnical observation and testing, special inspection and material testing, and Caltrans source inspection services. He has been providing source inspection for major transportation projects in Southern California. He is a subject matter expert for the California Board of Professional Engineers, Land Surveyors, and Geologists for geotechnical engineering exam development.

Dr. Sivathasan has been teaching several civil engineering undergraduate and graduate classes at Cal Poly Pomona and Cal State Fullerton on a part-time basis. He also taught civil engineering classes at the University of Peradeniya, Sri Lanka, University of California at Davis and Irvine, and Cal State Northridge. He teaches geotechnical engineering and engineering surveying sections for the California Professional Engineer. Exam. He is the vice chair of the ACSE Los Angeles Section Geotechnical Group and has published several papers in journals and for international and national conferences.

### RELEVANT PROJECT EXPERIENCE

**Orange County Water District, GWRS Expansion Project, Materials Testing and Inspection Services** – Fountain Valley, CA

**City of Fontana, Plant F31 Improvements** – Fontana, CA

**City of Corona, Wastewater Treatment Plant 1** – Corona, CA

**City of Corona, Wastewater Treatment Plant 2** – Corona, CA

**Hyperion Wastewater Reclamation Plant, City of Los Angeles DPW Bureau of Engineering** – Playa Del Rey, CA

**Etiwanda Estates Reservoirs** – Rancho Cucamonga, CA

**Several Water Tanks/Reservoirs Projects for San Gabriel Valley Water District/Fontana Water Company, San Gabriel Valley and Fontana, CA**

**East 27th Street Water Main Replacement** – Long Beach, CA

**City of Bradbury, Lemon Reservoir Rehabilitation** – Bradbury, CA

**City of San Marino, Graves Reservoir Replacement Project** – San Marino, CA





## JESUS "FREDDIE" OLMOS

*Environmental - ECORP Consulting, Inc.*

### EXPERIENCE 22 Years

EDUCATION  
B.A., Environmental  
Analysis & Design,  
California, Irvine

REGISTRATION  
Environmental  
Compliance Training  
Course for Local  
Agency Partners  
and Consultants  
– Categorical  
Exemptions  
and Categorical  
Exclusions, Caltrans,  
2013

Mr. Olmos' 22 years of professional experience involves California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) analysis and document preparation for government agencies and private clients. He has prepared and managed a variety of environmental documents, including Initial Studies/Mitigated Negative Declarations (IS/MNDs), Environmental Impact Reports (EIRs), Environmental Impact Statements (EISs), Environmental Assessments (EAs), and Findings of No Significant Impact (FONSIs), including Addendum CEQA/NEPA documentation. While his experience focuses on environmental report writing and permit preparation, he also has experience with biological resources monitoring and surveying for public facilities construction and research projects. Proficient in oral and written Spanish. Mr. Olmos is experienced in the bilingual English-Spanish translation of notices, documents, and handouts for CEQA and biological/cultural resources projects.

### RELEVANT PROJECT EXPERIENCE

**IS/MND for the Santiago Creek Recharge Project** – Orange County Water District

**Program EIR for the Sanitation Master Plan Update, Riverside and Imperial Counties** – Coachella Valley Water District as a subcontractor to CDM Smith

**CEQA Documentation for Water Infrastructure Projects, San Bernardino and Riverside Counties** -- Yucaipa Valley Water District

**On-Call Environmental Services** – Costa Mesa, CA



## CHRIS LOERA

*Potholes - C-Below*

### EXPERIENCE 16 Years

EDUCATION  
B.A., Environmental  
Analysis & Design,  
California, Irvine

REGISTRATION  
Ground Penetrating  
Radar Technician  
Level III  
Technician Locator  
Level III

Chris Loera has over 16 years of experience in the construction industry. He maintains a hands-on approach by researching and attending industry workshops. He meets with the equipment manufacturers to stay up to speed on the new technologies available. He plans, organizes, directs, and controls the activities of the Operations function of the division. Responsible for the performance of all Departments including Research and Development, Material Management, Order Services, Engineering and Surveying.

### RELEVANT PROJECT EXPERIENCE

**Mission Hospital Utility Mark Out - Mission Viejo, CA**

Loera was Project Manager/Chief Operating Officer on this project. He supervised all operations to ensure high quality control and accuracy when performing the utility mark out. CBI performed utility locating in the parking lot and entrance driveway. Extensive coordinating with the client and the site was required as well as flexibility on the schedule and fulfilling all requirements for insurance and training.

**IRWD Pump Station Potholing - Irvine, CA**

Loera was Project Manager/Chief Operating Officer on this project. He supervised all operations to ensure high quality control and accuracy when performing the utility mark out. CBI performed utility locating in the parking lot and entrance driveway.

**Well 32 Santa Ana Potholing 2018 - Santa Ana, CA**

Loera was Project Manager/Chief Operating Officer on this project. He oversaw all operations from permitting to on site traffic control set up. Supervised all operations to ensure high quality control and accuracy when performing the potholing. Upon completion, the client was provided with a comprehensive pothole report.



## JOHN O'CONNOR, PH.D., RPA

*Cultural Resources Manager - ECORP Consulting, Inc.*

### EXPERIENCE

13 Years

### EDUCATION

Ph.D., Anthropology,  
University of Oregon  
M.A., Anthropology,  
University of Hawaii at  
Mānoa  
B.A., Anthropology,  
University of Hawaii at  
Mānoa

### REGISTRATION

Register of  
Professional  
Archaeologists (RPA#  
36341398)  
Bureau of Land  
Management,  
California Cultural  
Resource Use Permit –  
Principal Investigator

Dr. O'Connor is a Registered Professional Archaeologist with over 13 years of archaeological experience in North America and the Pacific Islands, experience that includes cultural resources management, academic research, museum collections management, and university teaching. Dr. O'Connor meets the Secretary of the Interior's Professional Qualifications Standards for prehistoric and historic archaeology. He has worked on professional and academic projects throughout California, Oregon, Hawai'i, French Polynesia, and the Kingdom of Tonga. Dr. O'Connor is currently the Southern California Cultural Resources Manager for ECORP Consulting, Inc., where he serves as a Principal Investigator, Project Manager, Task Manager, and Field Director for cultural resources management projects in San Diego and throughout the State of California. Dr. O'Connor has extensive archaeological field experience, including exploratory and inventory survey, feature mapping, subsurface testing, data recovery, artifact analysis, lithic analysis, remote sensing data capture, geospatial data processing, underwater archaeology, and scientific diving. He is well versed in the evaluation of impacts to cultural resources for CEQA and National Historic Preservation Act (NHPA) Section 106 projects, the review of archaeological and ethnographic reports for agreement with Archaeological Resources Protection Act (ARPA) and American Indian Religious Freedom Act (AIRFA) protocol, and the recovery and handling of cultural materials in accordance with Native American Graves Protection and Repatriation Act (NAGPRA) compliance recommendations. Dr. O'Connor has applied knowledge of inter-institutional coordination with Native American and Native Hawaiian organizations for the ethical treatment of ethnographic and archaeological resources. He has written or otherwise contributed to environmental compliance documents at the federal, state, and local level, including Findings of Effect (FOE), Historic Property Treatment Plans (HPTP), Environmental Assessments (EA), Environmental Impact Statements (EIS), EIR, and numerous technical studies and project reports.

### RELEVANT PROJECT EXPERIENCE

**Del Valle Road Water Main Replacement, Los Angeles County** – Los Angeles, CA  
**153a Recycled Water Pipeline Extension Project, San Diego County** – Olivenhain Municipal Water District, sub to Woodard & Curran

**OC Loop Segment D Class 1 Bikeway Project, Orange County** – Caltrans, District 12, and Orange County Public Works

**Prima Deshecha Landfill Phase D, Orange County** – OC Waste & Recycling, sub to Tetra Tech BAS.

**Otay Lakes County Park Sewer-Septic Project, San Diego County** – County of San Diego, sub to Michael Baker International

**Montiel Lift Station and Force Main Replacement Project, San Diego County** – Vallecitos Water District, sub to Michael Baker International



## TODD CHAPMAN

*Biologist - E CORP Consulting, Inc.*

### EXPERIENCE

42 Years

### EDUCATION

Graduate Studies,  
Engineering Geology/  
Ground Water  
Hydrology, California  
State University, Los  
Angeles, 1984  
BS, Earth Sciences,  
California State  
Polytechnic University,  
Pomona, 1979  
AA, Pasadena City  
College, Pasadena,  
1976

### REGISTRATION

California,  
Professional Geologist  
No. 4527  
California, Certified  
Engineering Geologist  
No. 1415  
California, Certified  
Hydrogeologist No. 41  
40-Hour Hazardous  
Materials Health &  
Safety Course, 29  
CFR 1910.120, 1990

Mr. Schluter has 42 years of experience in applied engineering geology, hydrogeology and geotechnical engineering. As a senior engineering geologist, he has conducted a wide range of geotechnical studies for dams, reservoirs, pipelines, pump stations, treatment plants, power substations, transmission lines, bridges, highways, mass transit projects, landslides, hospitals, colleges, schools, commercial buildings, residential developments, and groundwater studies.

Mr. Schluter has conducted and managed infrastructure and development projects encompassing all major aspects of field exploration, laboratory testing, and technical analyses. He has extensive experience in conducting geologic hazard/seismic risk analyses, geotechnical investigations, landslide investigations and restoration, and construction, monitoring, and testing.

He has strong project management and client interaction skills. His responsibilities for projects in design phase include supervision of field investigations, instrumentation and providing the geology and seismic hazard evaluations for the geotechnical investigation study. Mr. Schluter provides supervision and project management of field services during all phases of project grading and construction.

### RELEVANT PROJECT EXPERIENCE

**Orange County Water District (OCWD) Groundwater Replenishment System -**  
Fountain Valley, CA

**Orange County Sanitation District (OCSD), P2-66 Headworks Replacement Project -** Huntington Beach, CA

**OCSD, P2-90 Trickling Filters Project -** Huntington Beach, CA.

**OCSD, Dover Drive Trunk Sewer Relief Project -** Newport Beach, CA

**City of Industry Recycled Water Project -** Upper San Gabriel Valley Municipal Water District, CA

**Upper District Rosemead Extension Project -** Rosemead, CA

**Calleguas Municipal Water District, Calleguas Brine Line Phase 2A, 2B, 2C, Preliminary Geotechnical and Geological Investigation -** Camarillo, CA

# D UNDERSTANDING OF NEED

The City intends to retain civil engineering consultants from a pre-qualified list to provide services for a variety of projects on an as-needed basis. Projects may include:

TASK	HUITT-ZOLLARS	CONSULTANT
1. Planning, Resources, and Design	X	
a. Planning Studies and Feasibility Studies	X	
b. Hydraulic Modeling	X	
c. Condition Assessment	X	
d. Design Services	X	
e. Other Related Services	X	
i. Architecture	X	
ii. Structural	X	
iii. Civil	X	
iv. Mechanical, HVAC	X	
v. Landscape Architecture	X	
vi. Geotechnical Engineering Services		X
vii. Hydrogeology	X	
viii. Environmental Compliance Services		X
ix. Recycled Water Compliance	X	
x. Electrical, Instrumentation, & Control Services	X	
xi. Engineering Support During Bidding and Construction	X	
xii. Plan Check Services	X	
2. Construction Management	X	
a. Construction Management and Coordination with Contractor	X	
b. Project Administration	X	
c. Construction Inspection	X	
3. Pipeline Design	X	
4. Electrical, Instrumentation & Control Services	X	
5. Geotechnical Engineering Services		X

## THE METHODOLOGY WE WILL USE TO COMPLETE WORK TASKS FOLLOWS:

Understand the task and the city's needs

- Visit the site
- Identify stakeholders
- Research the project context and background
- Determine permitting and regulatory requirements
- Identify problems, constraints, and opportunities
- Strategize possible solutions and evaluate alternates
- Assist the city in selecting a preferred alternative
- Develop the design into clear, constructible and cost-effective construction documents
- Determine construction phasing
- Support the environment documentation and right-of-way acquisitions as needed
- Provide construction administration, management, and surveying
- Close out the assignment with record documents

## CAPABILITY OF DEVELOPING INNOVATIVE OR ADVANCED TECHNIQUES

The City of Santa Ana is seeking water resources engineering firms experienced with developing Plans, Specifications, and Estimates (PS&E). The consultant will be responsible for services requested on an "on-call" basis for projects as assigned by the City of Santa Ana. The scope of services include but is not limited to:

Civil Engineering	Planning
Mechanical Engineering	QA/QC
Electrical Engineering	Risk Management
Structural Engineering	Preparation of PS&E
Water Improvements	Street Improvements
Sewer Improvements	Storm Drain Design
Landscape Architecture	Hydrology
Surveying	Hydraulics
Grant Application	NPDES Reports
Assistance	WQMP
Construction Support	SWPPP
Administration	Record Drawings
Quantity Estimating	Wastewater
Probable Cost	Pothole Plans
Scheduling	Parks/Trails

Providing plans, specifications, and estimates for civil engineering services is the backbone of our Irvine branch office's expertise. Our team has proposed, won, and completed projects similar to those that are typically requested and our capability for developing innovative and advanced techniques sets us apart.

## 3D MODELING AND PREDICTIVE SOFTWARE

Planning and design has been driven by the growth of advanced 3D design. The creation of smart 3D

models helps visualize and communicate vital data. At Huitt-Zollars projects are developed in Civil3D. The models integrate with other 3D platforms such as Inroads, BIM, and Revit. This provides data for future public works sustainable design projects and will work with many smart city platforms. The structural integrity of any building is only as good as its individual parts. The way those parts fit together, along with the choice of materials and site parameters, all contribute to how a building will perform.

## IMPROVING THE DURABILITY AND LIFESPAN OF OUR ROADS AND PARKING LOTS

Transportation and parking are major components in civil engineering design. Sustainable and innovative pavement design should be considered with every project. The availability of pavement alternatives is plentiful. Use of cool pavements as a means to increase infiltrating, greening, and mitigating the urban heat island impact is a growing consideration. Huitt-Zollars constantly seeks to identify the most cost effective pavement alternatives for projects. Our group will ensure the proposed improvements are consistent with specific project requirements.

## EXISTING SYSTEM INVENTORY

In order to identify potential conflicts between the existing infrastructure and future improvements, existing utilities will be located, verified, and compile into the topography using a four tier approach.

### Tier I: Site Inspection and Coordination

Huitt-Zollars will conduct a site investigation that includes digital documentation. The findings will be used to formulate a project specific approach and scope of services. The information gather will identify utility purveyors in the project vicinity and assesses probable challenges during construction.

### Tier II: Research and Gather Record Data

Huitt-Zollars will request records from utility purveyors. Record information will be verified during the topographic survey and compiled into a drawing. ADA ramps in the project vicinity that do not meet federal regulations will be identified and updated during design.

### Tier III: Topography Survey

Our survey department will research right-of-way record information, survey visible utility features, and dip manholes within the project area. Huitt-Zollars is leading the industry with drone surveying and scanning technologies. The new technology has a perfect platform in aerial photography. The data can produce 3D accuracy that is better than conventional





aerial photography. The technology interfaces well with GIS, AutoCad, Civil3D and other design platforms. The combination of low cost and easy assimilation to multiple versions of technologies provides a lot of opportunity for planning and design. Survey information will be used to verify utility locations, inverts, size, and flow direction.

### **Tier IV Sub-Surface Investigation**

The information collected in tiers I through III is used to identify possible utility conflicts. In a conclusion where a project requires pothole investigation and ground penetration radar to verify size and location.

An exhibit that identifies the work within the excavation zone will be coordinated with the subsurface investigation consultant.

### **TEAM EXPERIENCE**

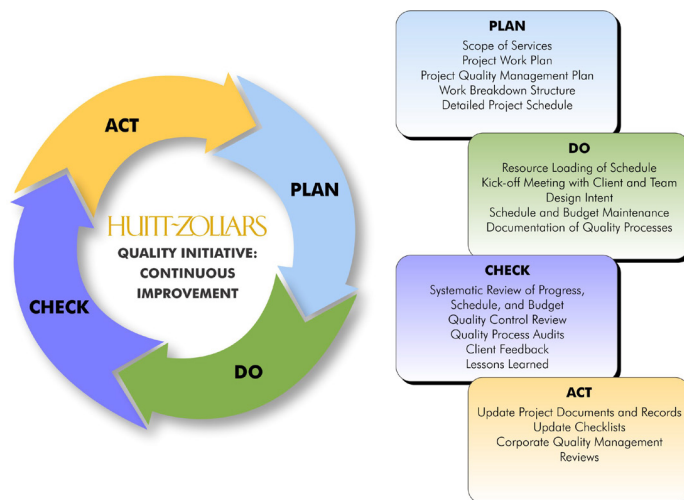
To effectively incorporate advanced innovative designs into projects, it is imperative to understand that this team has been properly prepared. HZ's philosophy is centered on a concept of **ADVANCED DESIGN**. It is an approach to our level of service that explores design from all sides, meets challenges from new angles, and helps to uncover perspectives that are often overlooked. Our design process is interactive and responsive, engaging all stakeholders relevant to the success of the project. The professionals included in the organization chart have been specifically selected based on the described needs. Keeping the continuity of information and decision-making that is funneled through project managers is critical to the success of our projects. The professionals for each task are the professionals you will see throughout the life of a project. We have also developed a working relationship with consultants that have been selected for projects. We have assembled the right team!

### **DEMONSTRATE TECHNICAL ABILITY**

At Huitt-Zollars our vision is to provide high quality design services in all disciplines, to maintain a balanced practice with robust capabilities, and to deliver projects to public works clients. Our strategy in achieving this vision has been the enhancement of our design practice through our proposed team. Our organization chart shows the selected specialized team experienced in delivering projects with similar requirements. A team with bench strength unmatched

in the industry. In addition to the proposed team, we believe that our services are best delivered with our Project Manager, Miguel Hernandez, PE, who is able to speak for the firm and is one of our most experienced project managers in our Southern California offices. Marc Haslinger is one of our most senior working principals. He will serve as Principal-in-Charge, bringing over 30 years of related experience directly to bear on your projects. We can't wait to put all these talented folks to work for you!

### **QA/QC PROCESS**



**Our QA/QC program sets a procedure that ensures deliverables for both options A and B meet your expectations.** As an ISO 9001:2015 compliant firm, the Quality Management Program serves as the foundation for continuous improvement in all aspects of our work. For our staff Quality Assurance is more than just a program that ensures proper internal review and documentation. It is a frame of mind with which we approach our work. The procedure will help us deliver high quality plans at 30%, 60%, and final submittal.

The Project Work Plan includes a Project Quality Management Plan (QMP) that is specific for each project. The QMP identifies the QC Manager and constructability reviewer. It includes project deliverables, design tasks, and schedules in-house reviews. The QMP verifies that the all requirements are met. It is based on a 4-step process of Plan – Do – Check – Act. By working on continuous improvement we ensure that our services provide added value.

**Our quality assurance program comprises all activities necessary to ensure that projects perform according to expectations.** The QA program places emphasis on planning control, design control, computer software control and records. We institute our QA program through early involvement of experienced members. This process begins with our proposal, is

formalized by project kick off, and continues through project close out via our coordination. The program will ensure that an acceptable level of quality is achieved and maintained in each design.

**We are proposing a highly-specialized team of registered professionals with a history of delivering on similar projects.** A team with a bench strength unmatched in the industry. Our project manager will be assisted by the principal-in-charge and supported by key personnel. The staff we are committing is organized so that redundant leadership is available in critical aspects of design. Our team offers additional value because it will rigorously analyze a design to provide sustainable cost effective solutions.

**ADVANCED DESIGN** – To effectively incorporate advance innovative designs into projects, it is imperative to select a team that has been properly prepared. Our team approach will explore design from all sides, meet challenges from new angles, and help uncover perspectives that are often overlooked. Our design process is interactive and responsive. It engages all stakeholders relevant to the success of the project. We have assembled the right team!

At the proposal stage overall project direction is determined, the strategy for project is specified, and general methodology is developed. Milestones are set with measurable timelines for checking progress on budget and scope completion. After award, our project manager prepares a project specific Work Plan. The Project Work Plan adds detail to the proposal scope of work, identifies the project team assignments and responsibilities, the project budget and schedule, and information regarding design criteria, inputs and constraints for the project. The Plan also specifies the governing design codes, guidelines and CAD standards.

**Work Breakdown Structure** - Huitt-Zollars will develop a Work Breakdown Structure (WBS) that identifies specific tasks needed to accomplish the proposed scope of services. We will determine the level of effort required for each discipline to complete each task under the WBS. This effort is used to establish the proposed compensation for the project and helps overcome potential budget challenges.

**Detailed Project Schedule** – Several characteristics comprise our approach to developing and maintaining a realistic schedule. This starts with participation of the entire project team. It is imperative that the schedule be sensitive to the demands of every

discipline and client review periods. A schedule must account for stakeholder considerations and include time contingencies for resolving unforeseen variables. Our PM is assigned the responsibility of developing and tracking the project schedule. Our WBS format allows our PM to review budgets against associated milestones. We require that the PM update the Principal with project progress weekly. This results in a sense of urgency that will benefit each project.

Quality project delivery can be impacted by many things. However, there are five areas that will demand our focus.

We will design both projects as the City intended to design them. This will be accomplished by listening and clearly understanding your expectations. We will confirm our understanding in our negotiated scope and verify that we are on track by conducting design review meetings on a regular basis from planning through final design.

- » We will meet with sub-consultants to ensure their scope is complete.
- » We will design the project in accordance with your schedule. This begins with development of a detailed schedule that includes critical path, agency review times, and milestones. Progress will be reviewed during our design meetings.
- » We will design a project that is within your budget. We will develop a project budget that includes contingency, probable construction cost, and consultant fees. The probable construction cost will be prepared using current unit prices and submitted for review.
- » We strive to minimize non-client initiated change orders during construction. Our QA/QC procedure implements a constructability reviewer. It helps us foresee and resolve potential issues before the bidding phase.

Our PM will establish the framework and ensure that we capture your expectations for quality prior to publishing our plan.



# PROJECT EXPERIENCE

## CITYWIDE SANITARY SEWER AND DOMESTIC IMPROVEMENTS

*Santa Ana, California (2012 - ONGOING)*

As part of a five year On-Call Services with the City of Santa Ana Water Resource Department. Huitt-Zollars is providing Plans, Specifications and Estimates (PS&E) for several projects in the City of Santa Ana.

- **The Sanitary Sewer Septic to Gravity Conversion Project** proposes to construct 8" sewer in a neighborhood near 17th Avenue and Tustin Avenue. Huitt-Zollars in providing CEQA documentation and PS&E for over 2500 linear feet of proposed 8" sewer, service laterals, and manholes.
- **Lacy Neighborhood Water Replacement Project** proposes to replace over 15,000 linear feet of water line and services. The project is part of a citywide program that proposes to replace and increase capacity of over 30,000 lf of water line per year. Huitt-Zollars is preparing PS&E that include topography and temporary high water lines.
- **French Park Water Replacement Project** proposes to replace over 15,000 linear feet of water line and services. The project is part of a citywide program that proposes to replace and increase capacity of over 30,000 lf of water line per year. Huitt-Zollars is preparing PS&E that include topography and temporary high water lines.

### RELEVANT DESIGN COMPONENTS:

- PS&E
- Paving
- Domestic Water Improvements
- Sewer Improvements
- Environmental

### CLIENT CONTACT:

City of Santa Ana  
Armando Fernandez  
Senior Civil Engineer,  
Public Works I Water Resources  
20 Civic Center Plaza, M-35  
Santa Ana, CA 92802  
714.647.3316

Our MS4 Permit expertise has helped streamline the implementation of Public Works improvements to the Maximum Extent Practicable. Notably:

- **Lincoln Avenue Pavement Rehabilitation, ADA, WQMP, and Perimeter Wall:** Replaced 8" sewer and 8" water on old failing system along Lincoln Avenue, including laterals to the right-of-way. This project also included updated sidewalks for ADA compliance, a water quality management plan, and geotechnical and perimeter wall services.

Due to utility constraints in the parkway, an offsite mitigation alternative was designed by treating an equivalent volume in an adjacent street.

- **Industrial Streets Pavement Rehabilitation, WQMP:** Replacement and rehabilitation of 12" sewer and 10" water that included v gutter on each side of the street and full pavement replacement on the street and parking areas adjacent to right-of-way. Other services include the WQMP and bioswale in parkway.

An alternative pavement rehabilitation section was evaluated to minimize WQMP requirements. Instead, an offsite mitigation alternative was proposed by treating an equivalent volume when the implementation of BMPs is feasible.

- **Septic to Gravity Sewer Conversion, Environmental Compliance, and WQMP:** Huitt-Zollars added 8" sewer to an old neighborhood with septic tanks. The addition of sewer allowed a conversion to gravity sewer. Other services include 8" water replacement, street light replacement, WQMP, environmental documents, and annexation from Tustin to Santa Ana.

The project was deemed Non-Priority WQMP per the conditions set forth in the Model WQMP, as the scope does not modify the line and grade of the storm drainage conveyance.





# LA PATA AVENUE GAP CLOSURE & CAMINO DEL RIO EXTENSION

Orange County, California (COMPLETED 2017)



Huitt-Zollars prepared PS&E and right-of-way documents to close an existing gap in Orange County's Master Plan of Arterial Highways between Ortega Highway and the City of San Clemente. This 3.7 mile long, \$72 million project was comprised of critical elements that came together for the project's success: working within the Prima Deshecha Landfill and designing controlled access to the landfill; widening an existing section of roadway that must remain in operation to serve the landfill and adjacent high school; and pioneering a new roadway through undeveloped, mountainous terrain with final roadway grades up to 7%. Huitt-Zollars overcame multiple challenges associated with the following critical elements: moving 15 million

cubic yards of earth; performing landslide remediation; mitigating effects of constructing the roadway through a former landfill area and relocating more than one billion pounds (850K cubic yards) of municipal solid waste; relocating two steel lattice electrical transmission towers; actively communicating with impacted communities; and responding to numerous environmental mitigation measures that must be implemented during design and construction. Challenges were also associated with constructing deep drainage culverts, storm drainage systems and water quality basins, two cast in place bridge overcrossing and five 30-foot diameter steel multi-plate tunnel undercrossings. Installed approximately 3,000 LF of sewer and domestic water line.

The project included Installation of approximately 3,000 LF of sewer and domestic water line and construction/extension of 22 cross culverts beneath the future roadway and a substantial roadway storm drain infrastructure comprised of more than 15,000 linear feet of reinforced concrete pipe; ranging in size from 18 to 108 inches in diameter. The roadway storm drain infrastructure segregates roadway runoff from offsite drainage areas in order to facilitate treatment of roadway impervious surfaces. To meet Orange County criteria and NPDES requirements, a total of six combined basins (to address water quality, hydromodification, and detention) were included in the project to address pollutants of concern and meet LID requirements. Flood control requirements are met by providing additional peak flow detention storage (over ten acre-feet) in these basins.

## RELEVANT DESIGN COMPONENTS:

- Sewer and Domestic Water
- Road Widening
- Gap Closure
- Retaining Walls
- Bridges and CSSP
- Design, Geometrics, PS&E
- Hydrology & Hydraulics
- Bridge Computer Programs
- Right-of-Way
- Value Engineering
- Landfill Engineering
- Pavement Rehabilitation & Overlay
- Geotechnical
- Storm Drain
- Minor Structures
- Traffic Signals
- Traffic Control/Construction Staging
- Signage & Striping
- Construction Support
- Utility Coordination & Relocation

## CLIENT CONTACT:

Nardy Khan - Deputy Director  
County of Orange Public Works  
300 N. Flower Street  
Santa Ana, CA 92702  
714.920.7454  
nardy.khan@ocpw.ocgov.com



Project of The Year Award  
Design Quality Partner Award for Projects \$51 - \$100 Million  
#2 on Roads and Bridges Magazine Top 10 Roads List  
B.E.S.T. Award for a Regional Transportation Project

# BASELINE ROAD STORM DRAIN PROJECT

*Rialto, California* (2017-Present)

Huitt-Zollars prepared construction documents for the Baseline Road storm drain project. The 9'x7' box facility starts at Tamarind Avenue and drains east to outlet in Cactus Basin #3. The size of the drainage infrastructure was optimized using the 2D hydraulic component of XPSWMM. Drainage parameters are consistent with the Cactus Basin Drainage Study (San Bernardino County Flood Control District, 2015) and the San Bernardino County Hydrology Manual.

A Composite Utility Plan was created based on record drawings gathered from wet and dry utility companies. The Plan served as a key support to identify the most efficient horizontal and vertical alignments, along with the definition of a trench detail. Coordination with DSOD was necessary to obtain an encroachment permit for penetrating through the jurisdictional dam. Penetration design details include 1:10 concrete structures and articulated joints. The Cactus Basins provided significant flood mitigation benefits to accommodate the undersized and erosion-prone Cactus Channel downstream of Baseline Road.

The project included the preparation of plan, specifications and estimates for the storm drain, street, and utility relocation plans. A construction phasing plan was also prepared to minimize impacts on local traffic and residents.



## RELEVANT DESIGN COMPONENTS:

- *Storm drain improvements*
- *Utility relocations*
- *Street improvements and design*
- *Environmental impact report*
- *Water quality*

## CLIENT CONTACT:

City of Rialto  
Marcus Fuller  
335 W. Rialto Avenue  
Rialto, CA 92376  
909.820.2602





# MPD SYSTEM T-2 STORM DRAIN AND STREET IMPROVEMENTS

Fontana, California (2018 - Ongoing)



Huitt-Zollars prepared construction documents for 2.5 miles of stormdrain improvements with RCP pipe sizes up to 96 inch diameter, for the master-planned Cypress Avenue storm drain (MPD Line T-2). The facilities start at Sierra Avenue and drain west to the intersection of Cypress Avenue and Foothill Boulevard and continue southbound on Cypress Avenue to connect to the County 9'x7' West Fontana Channel lateral near the intersection with Orange Way. A detailed Composite Utility Plan was created using base files and record drawings gathered from wet and dry utility companies. The Plan served as a key support to identify the most efficient horizontal and vertical alignments, along with the definition of a trench detail.

A feasibility evaluation for curb, sidewalk, and accessibility improvements was performed to identify design alternatives and itemize potential repairs. Street Improvements include 3,000 lineal feet of raised landscaped medians, two traffic signal modifications; widening the Foothill/Juniper intersection; 1.25 miles of ADA retrofit of all sidewalks, curb ramps, and driveway approached; and 2.25 miles of pavement rehabilitation. A construction phasing plan was also prepared to minimize impacts on local traffic and residents.

The project includes the preparation of plan, specification and estimates for the storm drain, street, and utility relocation plans.

## CLIENT CONTACT:

City of Fontana  
Chris Smethurst  
Associate Engineer  
909.350.6649  
CSmethurst@fontana.org

.....

## RELEVANT DESIGN COMPONENTS:

- Stormdrain design
- Utility relocations
- Street Improvements
- Signal design
- ADA Design
- Traffic Control

# HUNTINGTON BEACH ENVIRONMENTAL ON-CALL

Huntington Beach, California (2016 - Ongoing)

Huitt-Zollars has been assisting the City with its Stormwater Implementation Program, providing a wide range of services including the preparation of:

- Retrofit study of existing City pump stations (Bartlett, Hamilton, Talbert, Atlanta) to incorporate full capture trash screens and media to capture pollutants of concern. Mapping of subsurface utilities and operational capabilities to define a conceptual design for inclusion into the CIP program.
- Construction documents for LID and Trash BMPs including the McCallen Park Water Quality Improvements to remove trash and debris from more than 2 square miles. Design challenges included shoring for a 32-foot deep pit, relocation of SCE and SCG lines, contaminated soil, as well as coordination with the Boys and Girls Club.
- BMP Feasibility Study and Master Planning including the Citywide Trash Compliance Plan based on the citywide storm drain, which resulted in the identification of more than 70 retrofit opportunities. An emphasis on Regional BMPs, including infiltration BMPs, biofiltration BMPs, and large-scale hydrodynamic separators has proven to be cost effective based on long-term maintenance costs. A BMP siting feasibility was performed to determine pollutant load reduction, flow capacity, flooding impacts, and traffic impacts during construction. BMP opportunities were validated by assessing the presence of potential easements, utility conflicts, and hydraulic gradients. Preliminary engineer's estimates of probable costs and fact sheets were created for each opportunity.



## CLIENT CONTACT:

City of Huntington Beach  
Jim Merid  
714.375.8445  
jim.merid@surfcity-hb.org

# OXNARD VILLAGE WAGON WHEEL

*Oxnard, California* (ONGOING)



Oxnard Village is an approximately 60-acre privately funded redevelopment project located at the westerly gateway to the City of Oxnard, along the 101 Freeway. The under-utilized site contained 1950's era motel, mobile home park, retail/commercial and light manufacturing uses. This mixed use project will ultimately include 1,500 residential units with row-houses, podium stacked flats, live-work units and luxury high rise condominiums and luxury hotels. Four parking lots have already been designed which included aesthetic, decorative lighting, water quality, space, enhanced paving, vehicular, pedestrian and disabled access, as well as drainage challenges.

In each case, both a functional and aesthetically pleasing built environment resulted. The project is ongoing and will continue development while serving the City of Oxnard for many decades into the future.

## RELEVANT DESIGN COMPONENTS:

- Street Improvements
- Sewer, Domestic Water
- Reclaimed Water
- Storm Drain
- Flood Control
- Multiple Parking Lots
- Landscaping
- Water Quality
- Vehicular & Disabled Access

## CLIENT CONTACT:

Oxnard CRFL  
Partners  
Carl Renezedder  
64 Maxwell  
Irvine, CA 92618  
949.719.9040

# SANTA ANA ON-CALL SURVEY PROJECTS

*Santa Ana, California* (COMPLETED 2017)

Huitt-Zollars was responsible for the Topographic Survey for that portion of Warner Avenue from westerly of Main Street to easterly of Oak Avenue. Work included establishment of horizontal control based on the centerline of Warner Avenue and the establishment of vertical control; tying out the existing centerline monumentation prior to construction and the preparation of Pre-Construction Corner Records to be used during the construction phases of the project by surveyors doing boundary work in the area and for replacement of the monuments that were destroyed during construction; setting and control of aerial targets and photo ID points; flight, photography, and compilation of the aerial topographic mapping; cross-section survey at 25 foot intervals and a detailed design survey of all existing improvements from R/W line to R/W line; and the preparation of a Topographic Map showing the results of the work.



## CLIENT CONTACT:

City of Santa Ana  
Kenny Nguyen  
20 Civic Center Drive  
Santa Ana, CA 92702  
714.647.5632

## RELEVANT DESIGN COMPONENTS:

- Topographic Survey
- Boundaries
- Right-of-Way

# SANTA MARGARITA WATER DISTRICT

*Rancho Santa Margarita, California (ONGOING)*

Huitt-Zollars prepared the design of approximately 6,000 of 12" HDPE highline for recycled water to assist the Water district in the transportation of recycled water through the Santa Margarita Water District. Huitt-Zollars also assisted the Santa Margarita Water district in the design and construction of a booster pump station to boost the pressure of the recycled water line through multiple pressure zones.

Additionally, Huitt-Zollars worked with Santa Margarita Water District to prepare multiple details to switch pipe materials and underground the highline into a casing and create a crossing of a secondary arterial highway. The design was completed to allow for the maintenance of the pipe without disrupting traffic on the highway.




## RELEVANT DESIGN COMPONENTS:

- *Survey*
- *Engineering Estimates*
- *Water Improvements*

## CLIENT CONTACT:

Santa Margarita Water District  
 Jamie Aguilar  
 26111 Antonio Parkway  
 Rancho Santa Margarita, CA  
 92688  
 949.459.6400

# REFERENCES

Project	Image	Description	Reference
Smith Basin Scour Assessment and Slope Rehabilitation  City of Villa Park		Huitt-Zollars has prepared final plans, specifications, and estimates for the Rehabilitation of Smith Basin downstream of Cannon Street and upstream of Villa Park Road in the City of Villa Park.	Ryan Bouley Orange County Water District 187000 Ward Street Fountain Valley, CA 92708 714.378.8207 rbouley@ocwd.com
Oakmont Park and Live Oak Canyon Creek Design Evaluation and Repair  City of Redlands		Huitt-Zollars performed hydrologic, hydraulic, geomorphic, and geotechnical investigations to characterize the conditions that have led to the existing degradation of the creek bed and lateral erosion of the creek banks. Huitt-Zollars identified a preferred erosion control alternative based on constructability, cost, environmental constraints, and effectiveness.	City of Redlands - Municipal & Engineering Department Goutam K. Dobey, PE 909.798.7584 gdobey@cityofredlands.org
South Arroyo Stormwater Mitigation Improvements  LACCD, Sylmar, CA		Huitt-Zollars is providing plans, specification, and estimates for storm drain, sewer, water quality, street, electrical, and landscaping improvements to meet State Water Board, improve aging utility infrastructure, and incorporate American with Disability Act requirements on campuses.	Natalie Mason, Project Manager Los Angeles Community College District (818) 367-7236 Natalie.Mason@build-laccd.org



# 2 SCOPE OF SERVICES & SCHEDULE

Huitt-Zollars proposes to deliver the following services reflected in Attachment 1 Scope of Work and Section D.

1. Planning, Resources, and Design
  - a. Planning Studies and Feasibility Studies
  - b. Hydraulic Modeling
  - c. Condition Assessment
  - d. Design Services
  - e. Other Related Services
    - i. Architecture
    - ii. Structural
    - iii. Civil
    - iv. Mechanical, HVAC
    - v. Landscape Architecture
    - vi. Geotechnical Engineering Services (provided by subconsultant)
    - vii. Hydrogeology
    - viii. Environmental Compliance Services (provided by subconsultant)
    - ix. Recycled Water Compliance
    - x. Electrical, Instrumentation, & Control Services
    - xi. Engineering Support During Bidding and Construction
    - xii. Plan Check Services
2. Construction Management
  - a. Construction Management and Coordination with Contractor
  - b. Project Administration
  - c. Construction Inspection
3. Pipeline Design
4. Electrical, Instrumentation & Control Services
5. Geotechnical Engineering Services (provided by subconsultant)

Shown below is an example of a Scope of Services Huitt-Zollars prepared for a previous Task Order with the City of Santa Ana.

## Example Scope of Services:

Mr. Armando Fernandez  
HZ Proposal No. P309095.07  
February 19, 2019  
Page 3

### SCOPE OF SERVICES

**A. Project Management & Meetings:** Includes a kickoff meeting to be held at the City's corporate yard and two additional progress meetings. Huitt-Zollars will attend meetings and coordinate the project in an effort to promote efficient progress. Huitt-Zollars will provide necessary recordkeeping to ensure quality control of the project.

**B. Topography:** Huitt-Zollars will set control and provide an aerial topography.

*Consideration: The French Park Neighborhood is adjacent to the Lacy Neighborhood. The City has requested proposals for both neighborhoods. Use of one survey consultant for both projects would generate cost savings.*

**C. Geotechnical Support:** Our consultant, Converse Consulting, will provide a geotechnical report to support the design of the sewer improvements. We estimate 12 borings at 10-foot depths.

- Depth of water is assumed at approximately 5 feet
- WATCH Manual will be applicable for Traffic Control  
We do not anticipate the use of flagman
- City will issue a no fee permit for field exploration
- Consultant will coordinate with Underground Services Alert

**D. Utility Research/Investigation:** The City of Santa Ana will provide sewer, water, and storm drain as-built plans. Huitt-Zollars will provide third party research. Letters on City letterhead will be mailed out to request third party record drawings/atlas. It is assumed that our team can use and rely on the data and information contained in the project related documents. Our staff will not perform a technical review of record documents, therefore it will not be responsible for the content or accuracy.

**E. Compile CADD (Micro-Station) Base Files:** Huitt-Zollars will compile as-built information in Micro-Station (CADD) files for evaluation and use during design.

**F. Water Improvements:** Huitt-Zollars will prepare water improvement plans for approximately 15,000 linear feet and related appurtenances. Pipe diameter is anticipated at 8 inches, cross connection and/or pressure reducing stations are not anticipated. This is a water main replacement project, therefore we do not anticipate a need for potholing. Proposed water improvements limits are delineated in the enclosed exhibit. Utility relocations are not anticipated. The Water Improvement Plans will be prepared to satisfy City of Santa Ana standards and requirements.

- Title Sheet
- General Notes Sheet
- Detail Sheet
- 13-Double Stacked Plan View Only
- 24"x36" Size
- Horizontal Scale of 1"=20'



Plans will be submitted as follows:

- 2 - Hard Copies Design Plans Only for 30% Progress Submittal  
(HZ will continue with design during City review)
- 2 - Hard Copies Design Plans Only for 60% Progress Submittal  
(HZ will continue with design during City review)
- 2 – Hard Copies of PS&E for 90% Submittal  
(Design is on hold during review)
- 1- Hard Copy of PS&E for Final Submittal

**G. Estimates:** Huitt-Zollars will provide water improvements relevant quantities. Probable cost would be estimated using best engineering practices including bid item list.

**H. Specifications:** The City of Santa Ana will provide sample of special provisions for editing.

**I. Construction Administration:** Project Manager and staff will remain available during the bidding phase and construction phase to respond to RFI's and review contractor submittals. After construction, contractor redlines will be provided to develop record drawings.

#### **Optional Services**

**J. Environmental Support:** Installation of new pipeline with removal of existing pipeline as part of maintenance or repair, would qualify as a statutory exemption if less than one mile in length, unless there are unusual circumstances (i.e., "a reasonable possibility of significant environmental effects"), in which case an MND may be required. We are providing a budget for each. Our environmental consultant will assist the City to determine if an MND is necessary. The MND includes air quality, gas emissions, cultural, and noise/vibrations studies.

#### **Deliverables**

- ◆ Geotechnical Report
- ◆ CEQA Statutory Exemption or MND (Optional)
- ◆ Plans Only (30%)
- ◆ Plans Only (60%)
- ◆ Plans, Specifications and Quantity Estimates (90%)
- ◆ Final Plans, Specifications and Quantity Estimates (Title Sheet Mylar)
- ◆ CADD Files

#### **Provided by the City of Santa Ana**

- ◆ Utility As-Built Plans
- ◆ Bid List Items
- ◆ Special Provisions and CADD Standards

### Schedule

Our team proposes to deliver the project per the schedule below, we are open minded to any modification necessary to deliver on the project needs. We can deliver more than one project on similar schedules. Please note that the CEQA service will impact the proposed schedule.

Task	Date
Kickoff	March 4, 2019
30% Progress Submittal	April 12
60% Progress Submittal	May 3
City Review Complete	May 10
90% Submittal	May 31
City Review Complete	June 14
Final PS&E Package	July 12

**Reimbursable Expenses:** Reimbursable expenses are estimated to include reproduction of documents required for submittal(s) as stated in the scope of services, travel cost (travel and board), and mileage for project purposes. Bidding or construction plan sets are not anticipated. Expenses shall be compensated monthly based upon the Rate Schedule included in the Agreement.

### Assumption

- ◆ Work not included will not be performed without contract or addendum to the original proposal.

### Excluded Services

Construction Estimate  
Utility Relocations  
Sub-surface Exploration  
Construction Survey  
Third Party Fees  
Task/Studies not specifically delineated  
Exhibits

### TERMS & CONDITIONS

It is our understanding that the terms and conditions will be as jointly signed by the City of Santa Ana and Huitt-Zollars, Inc. in the "AGREEMENT (#A-2018-160-03) TO PROVIDE ENGINEERING SERVICES ON AN ON-CALL BASIS (WATER RESOURCES)". Upon acceptance of this proposal, the City of Santa Ana will provide Written Notice to Proceed (WNTP). **We are prepared to begin work immediately.**

I look forward to our continued participation in this project. Should you have any comments or questions about any aspect of this proposal, please do not hesitate to give me a call.

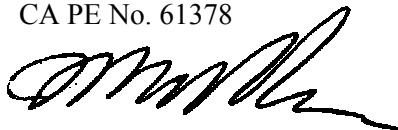
Mr. Armando Fernandez  
HZ Proposal No. P309095.07  
February 19, 2019  
Page 6

Sincerely,

**HUITT-ZOLLARS, INC.**



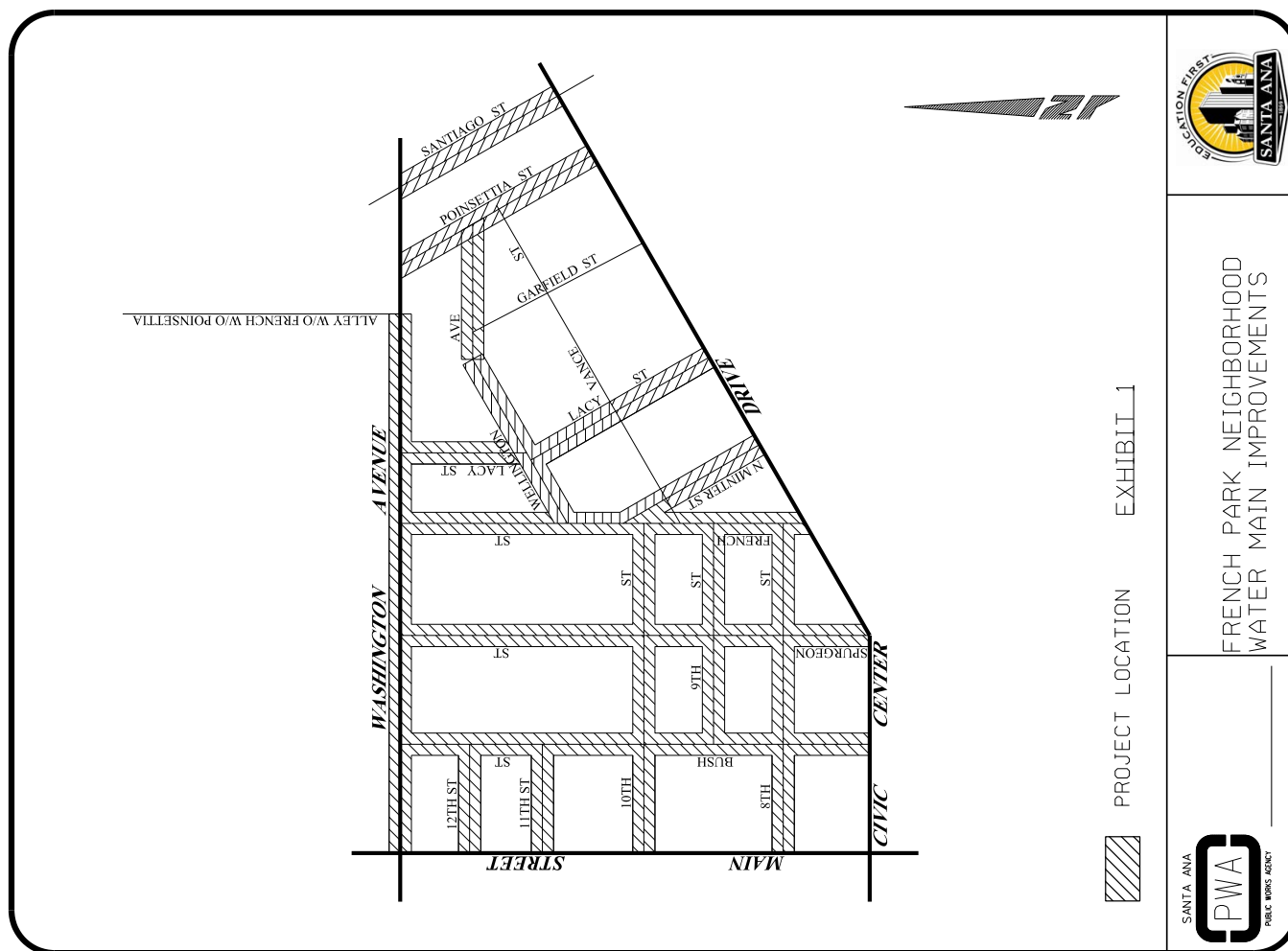
Miguel Hernandez, P.E.  
Associate  
CA PE No. 61378



Marc J. Haslinger, P.E.  
Vice President/Office Manager  
CA PE No. 49158

Attachments

N/P2019Irvine/P309095.07



# 3 FEE PROPOSAL

Separate sealed envelope

## APPENDIX

Attachment 3-1 Non Collusion Affidavit  
Attachment 3-2 Non-Lobbying Certification  
Attachment 3-3 Non-Discrimination Certification

NON-COLLUSION AFFIDAVIT  
(Title 23 United States Code Section 112 and  
Public Contract Code Section 7106)

To the CITY OF SANTA ANA DEPARTMENT OF PUBLIC WORKS

In accordance with Title 23 United States Code Section 112 and Public Contract Code 7106 the BIDDER declares that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the BIDDER has not directly or indirectly induced or solicited any other BIDDER to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived or agreed with any BIDDER or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the BIDDER has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the BIDDER or any BIDDER, or to fix any overhead, profit, or cost element of the bid price, or of that of any other BIDDER, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the BIDDER has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

Note: The above Non-collusion Affidavit is part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of this Non-collusion Affidavit. BIDDERS are cautioned that making a false certification may subject the certifier to criminal prosecution.

Signed \_\_\_\_\_

State of California

County of Orange

*See Attached CA Jurat wording*

Subscribed and sworn to (or affirmed) before me on this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, by \_\_\_\_\_, proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

\_\_\_\_\_  
Notary Public Signature

\_\_\_\_\_  
Notary Public Seal

**CALIFORNIA JURAT WITH AFFIANT STATEMENT**

GOVERNMENT CODE § 8202

- ☒ See Attached Document (Notary to cross out lines 1-6 below)  
☐ See Statement Below (Lines 1-6 to be completed only by document signer[s], *not* Notary)

\_\_\_\_\_  
Signature of Document Signer No. 1\_\_\_\_\_  
Signature of Document Signer No. 2 (if any)

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California

County of Orange

Subscribed and sworn to (or affirmed) before me

on this 18th day of May, 2022  
by                      Date                      Month                      Year(1) Jeffrey Okamoto(and (2) \_\_\_\_\_),  
Name(s) of Signer(s)proved to me on the basis of satisfactory evidence  
to be the person(s) who appeared before me.Signature Cindy Okamoto  
Signature of Notary Public

Seal  
Place Notary Seal Above

**OPTIONAL**

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

**Description of Attached Document**Title or Type of Document: Non-Collusion Affidavit, C.T. of Santa Ana DP CO Document Date: \_\_\_\_\_

Number of Pages: \_\_\_\_\_ Signer(s) Other Than Named Above: \_\_\_\_\_

### NON-LOBBYING CERTIFICATION

The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

1. No federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any federal contract, the making of any federal grant, the making of any federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.
2. If any funds other than federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence any officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this federal contract, grant loan, loan or cooperative agreement, the undersigned shall complete and submit a "Disclosure of Lobbying Activities".

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U. S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such sub recipients shall certify and disclose accordingly.

Firm Huitt-Zollars, Inc.

Signed and Printed Name:  Jeffrey T. Okamoto, PE

Title Vice-President

Date 5/27/2022



### NON-DISCRIMINATION CERTIFICATION

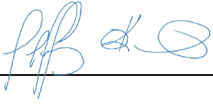
The undersigned consultant or corporate officer, during the performance of this contract, certifies as follows:

1. The Consultant shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Consultant shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Consultant agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
2. The Consultant shall, in all solicitations or advertisements for employees placed by or on behalf of the Consultant, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.
3. The Consultant shall send to each labor union or representative of workers with which he/she has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the Consultant's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
4. The Consultant shall comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
5. The Consultant shall furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his/her books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation, to ascertain compliance with such rules, regulations, and orders.
6. In the event of the Consultant's non-compliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, the contract may be canceled, terminated, or suspended in whole or in part and the Consultant may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulations, or order of the Secretary of Labor, or as otherwise provided by law.
7. The Consultant shall include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted

by rules, regulations, or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontract or purchase order as the administering agency may direct as means of enforcing such provisions, including sanctions for noncompliance; provided, however, that in the event the Consultant becomes involved in, or is threatened with, litigation with a sub-consultant or vendor as a result of such direction by the administering agency, the Consultant may request that the United States enter into such litigation to protect the interests of the United States.

8. Pursuant to California Labor Code Section 1735, as added by Chapter 643 Stats. 1939, and as amended,

No discrimination shall be made in the employment of persons upon public works because of race, religious creed, color, national origin, ancestry, physical handicaps, mental condition, marital status, or sex of such persons, except as provided in Section 1420, and any consultant of public works violating this Section is subject to all the penalties imposed for a violation of the Chapter.

Signed:  \_\_\_\_\_

Title: Vice-President

Firm: Huitt-Zollars, Inc.

Date: 5/27/2022

### NON-DISCRIMINATION CERTIFICATION

The undersigned consultant or corporate officer, during the performance of this contract, certifies as follows:

1. The Consultant shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Consultant shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Consultant agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
2. The Consultant shall, in all solicitations or advertisements for employees placed by or on behalf of the Consultant, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.
3. The Consultant shall send to each labor union or representative of workers with which he/she has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the Consultant's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
4. The Consultant shall comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
5. The Consultant shall furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his/her books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation, to ascertain compliance with such rules, regulations, and orders.
6. In the event of the Consultant's non-compliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, the contract may be canceled, terminated, or suspended in whole or in part and the Consultant may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulations, or order of the Secretary of Labor, or as otherwise provided by law.
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Signed:  Siva Sivathasan, PE, GE

Title: Senior Vice President

Firm: Converse Consultants

Date: May 18, 2022

### NON-DISCRIMINATION CERTIFICATION

The undersigned consultant or corporate officer, during the performance of this contract, certifies as follows:

1. The Consultant shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Consultant shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Consultant agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
2. The Consultant shall, in all solicitations or advertisements for employees placed by or on behalf of the Consultant, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.
3. The Consultant shall send to each labor union or representative of workers with which he/she has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the Consultant's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
4. The Consultant shall comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
5. The Consultant shall furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his/her books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation, to ascertain compliance with such rules, regulations, and orders.
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Signed: Asun Saw

Title: VP of Operations

Firm: C Below, Inc.

Date: 05/23/2022

### NON-DISCRIMINATION CERTIFICATION

The undersigned consultant or corporate officer, during the performance of this contract, certifies as follows:

1. The Consultant shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Consultant shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Consultant agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
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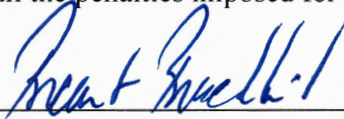


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Signed: \_\_\_\_\_



Title: Brant Brechbiel, Vice President/Chief Contracting Officer

Firm: ECORP Consulting, Inc.

Date: May 18, 2022

# HUITT-ZOLLARS MISSION STATEMENT

Our *commitment* is to understand the needs of our clients and to meet those needs by delivering professional services with the highest level of *quality & integrity*.

2603 Main Street, Suite 400  
Irvine, CA 92614  
(949) 988-5815  
[www.huitt-zollars.com](http://www.huitt-zollars.com)

HUITT-ZOLLARS

## **EXHIBIT C**

# HUITT-ZOLLARS

## Southern California

### 2022 HOURLY RATE SHEET

#### Engineering/Architecture

Principal	\$ 280.00
Sr. Project Manager	\$ 250.00
Design Principal	\$ 220.00
QA Manager	\$ 220.00
Project Manager	\$ 215.00
Sr. Civil Engineer	\$ 215.00
Sr. Structural Engineer	\$ 205.00
Sr. Mechanical Engineer	\$ 185.00
Sr. Electrical Engineer	\$ 190.00
Civil Engineer	\$ 160.00
Structural Engineer	\$ 170.00
Mechanical Engineer	\$ 170.00
Electrical Engineer	\$ 170.00
Plumbing Engineer	\$ 170.00
EIT	\$ 145.00
Sr. Architect	\$ 215.00
Architect	\$ 200.00
Architect Intern 3	\$ 165.00
Architect Intern 2	\$ 135.00
Architect Intern 1	\$ 120.00
Sr. Designer	\$ 185.00
Designer	\$ 160.00
Sr. CADD Technician	\$ 145.00
CADD Technician	\$ 115.00

#### Interior Design

Sr. Interior Designer	\$ 170.00
Interior Designer	\$ 120.00

#### Survey

Survey Manager	\$ 220.00
Sr. Project Surveyor	\$ 185.00
Project Surveyor	\$ 155.00
Survey Technician	\$ 125.00

#### Survey Crews

1-Person Survey Crew	\$ 165.00
2-Person Survey Crew	\$ 250.00
3-Person Survey Crew	\$ 315.00

#### Construction

Construction Manager	\$ 180.00
Resident Engineer	\$ 165.00
Inspector/Owner's Representative	\$ 130.00
Sr. Project Representative	\$ 125.00
Resident Project Representative	\$ 100.00

#### Administrative

Sr. Project Support	\$ 110.00
Project Support	\$ 85.00

#### Reimbursable Expenses

Consultants	Cost + 10%
Other Direct Costs	Cost + 10%
Mileage	IRS Standard Business Mileage Rate



14280 Euclid Ave  
Chino, CA 91710  
1-888-90-BELOW

Prevailing Wage

## Service

## Cost

### Ground Penetrating Radar

GPR   Certified Supervising Technician.....	\$ 195.00 per hour
GPR   Trained Certified Assistant Technician.....	\$ 175.00 per hour
Travel Time   Mobilization technician plus equipment.....	\$ 135.00 per hour
Travel Time   Mobilization crew plus equipment.....	\$ 225.00 per hour

### Utility Locating - Electromagnetic Locator

Locating   Certified Supervising Technician.....	\$ 195.00 per hour
Locating   Trained Certified Assistant Technician.....	\$ 175.00 per hour
Travel Time   Mobilization technician plus equipment.....	\$ 135.00 per hour
Travel Time   Mobilization crew plus equipment.....	\$ 225.00 per hour

### Mapping

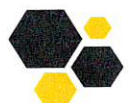
Mapping   Supervising Tech.....	\$ 230.00 per hour
Drafting   In-house drafting in AutoCAD.....	\$ 125.00 per hour
Manhole Dip   Record depth from rim of manhole to invert of pipe.....	\$ 150.00 per hole
Travel Time   Mobilization technician plus equipment.....	\$ 135.00 per hour
Travel Time   Mobilization crew plus equipment.....	\$ 225.00 per hour

### CCTV Pipe Inspection

CCTV Robotic Camera Pipe Inspection   For lines greater than 8 inches, includes locating and video.....	\$ 385.00 per hour
CCTV Push Camera Pipe Inspection   For lines smaller than 8 inches, includes locating and video.....	\$ 365.00 per hole
CCTV Lateral Locating   Remote camera launch, includes locating and video for one lateral.....	\$ 50.00 per lateral.
Water Jetting   Trailer mounted unit, jetting to clear blocked lines up to 8 inches in diameter.....	\$ 450.00 per hour
Water Jetting   Pipe cleaning utilizing vac-truck.....	\$ 585.00 per hour
Travel Time   Mobilization technician plus equipment.....	\$ 135.00 per hour
Travel Time   Mobilization crew plus equipment.....	\$ 225.00 per hour

### Potholing

Standard Pothole 1' x 1' x 0' - 5' deep.....	\$ 625.00 per hole
Pothole 1' x 1' x 5'-10' deep.....	\$ 675.00 per hole
Pothole 1' x 1' x 10' - 15' deep.....	\$ 885.00 per hole
Pothole 1' x 1' x 15' - 20' deep.....	\$ 1,250.00 per hole
Pothole 1' x 1' x 20' - 25' deep.....	\$ request quote
Traffic Control   Basic 0 - 25 MPH.....	\$ 900.00 per day
Traffic Control   Standard 25 - 55 MPH.....	\$ 1250.00 per day
Traffic Control   Extensive.....	\$ 1,500.00 per day
Traffic Control   Half day.. .25-55 MPH.....	\$ 625.00 per day
Traffic Control Plans   Engineered Stamped Plans.....	\$ 550.00 per page
Flagman.....	\$ 175.00 per hour
Potholing Hourly Crew   Includes surface breaking, sand backfill, and permanent cold patch repair.....	\$ 585.00 per hour
Potholing Hourly Single Tech   Includes vac-truck, no surface breaking, backfill, or patching.....	\$ 375.00 per hour
Keyhole Coring   Includes utilibond.....	\$ 250.00 per hole
Vacuum Excavation Spoil Removal and Dump Fee   Removal of excavated spoils and dumping of material...	\$ 550.00 per trip





14280 Euclid Ave  
Chino, CA 91710  
1-888-90-BELOW

Prevailing Wage

Service	Cost
<b>Potholing Continued</b>	
Hot Patching   Standard 2' x 2' area.....	\$ request quote
Slurry Backfill.....	\$ request quote
Pothole Report   Drafting time to generate PDF.....	\$ 250.00 per report
Travel Time   Mobilization technician plus equipment.....	\$ 265.00 per hour
Travel Time   Mobilization crew plus equipment.....	\$ 285.00 per hour
<b>Additional Fees</b>	
Administration / Project Coordination.....	\$ 95.00 per hour
Per Diem   Per technician.....	\$ 150.00 per day
Permit Costs   3rd party.....	\$ +10% markup

C Below Terms & Conditions apply to all services.

- \* 15% Overtime charges applies to all services for Saturday work and off hours 6:00 pm - 6:00 am
- \* 20% Overtime charges applies to all services for Sunday work
- \* All services will be billed within the 4 & 8 hour minimum





**CONVERSE CONSULTANTS**  
**Prevailing Wage Schedule of Fees**  
**Personnel**

**Introduction**

It is the objective of Converse Consultants to provide its clients with quality professional and technical services and a continuing source of professional advice and opinions. Services will be performed in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions. This fee schedule is valid through December 31, 2022.

**Hourly Charges for Personnel**

Staff assignments will depend on personnel availability, job complexity, project site location, and experience level required to satisfy the technical requirements of the project and to meet the prevailing standard of professional care.

**Field Technical Services (hourly rate including vehicle and equipment)**

Construction Inspector – ACI/ICC and/or AWS/CWI certified (concrete, post-tension, masonry, structural steel, fireproofing; includes concrete batch plant and local steel fabrication inspections) .....	\$135
DSA Masonry Inspector .....	135
Non-Destructive Testing Inspector (ultrasonic, magnetic particle, dye penetrant, skidmore, pull testing, torque testing, Schmidt hammer, and pachometer) .....	140
Coring Technician .....	135
Soils Technician (soil, base, asphalt concrete, and moisture emission testing) .....	135
Sample Pick-Up .....	50

**Professional Services (consultation for field and office, if requested)**

Staff Professional .....	\$130
Senior Staff Professional .....	140
Project Professional .....	150
Project Manager .....	170
Senior Professional .....	170
Principal Professional .....	220
Principal Consultant .....	235

**Laboratory Testing**

Laboratory Technician .....	Per Test
(see Geotechnical Laboratory Testing and Materials Testing Services fee schedules.)	
Laboratory Supervisor .....	\$90

**Office Support**

Clerical/Word Processing .....	\$80
Drafting .....	80
CAD Operator/Drafting Manager .....	90

Overtime and special shift rates for Field Services personnel are determined in accordance with Prevailing Wage law. Travel time to and from the job site will be charged at the hourly rates for the appropriate personnel.

**Expenses**

1. Exploration expenses (drilling, trenching, etc.) are charged at cost plus fifteen percent.
2. Travel and subsistence expenses (transportation, room and board, etc.) for individuals on projects requiring travel and/or living 50 miles away from the project site are charged at cost plus fifteen percent.
3. Automobile and truck expenses are charged at cost plus fifteen percent (rentals) or at the current IRS mileage rate per mile for company-owned vehicles traveling between principal office and project.
4. Other out-of-pocket direct project expenses (aerial photos, long-distance telephone calls, permits, bonds, outside printing services, tests, etc.) are charged at cost plus fifteen percent.

**Invoices**

1. Invoices will be submitted to the Client on a monthly basis, and a final bill will be submitted upon completion of services.
2. Payment is due upon presentation of invoice and is past-due thirty days from invoice date. In the event Client fails to make any payment to Converse when due, Converse may immediately cease work hereunder until said payment, together with a service charge at the rate of eighteen percent per annum (but not exceeding the maximum allowed by law) from the due date, has been received. Further, Converse may at its sole option and discretion refuse to perform any further work irrespective of payment from Client in the event Client fails to pay Converse for services when said payments are due.
3. Client shall pay attorneys' fees or other costs incurred in collecting any delinquent amount.

**General Conditions**

The terms and provisions of the Converse General Conditions are incorporated into this fee schedule as though set forth in full. If a copy of the General Conditions does not accompany this fee schedule, Client should request a copy from this office.

## CONVERSE CONSULTANTS

### Schedule of Fees – Geotechnical Laboratory Testing

Compensation for laboratory testing services will be made in accordance with this fee schedule which includes test report(s) and engineering time. Costs of tests not on this schedule will be by quote and/or in accordance with our current hourly fee schedule. The rates are based on non-contaminated soil. A surcharge will be charged for handling contaminated material, which will be determined based on the project.

#### IDENTIFICATION AND INDEX PROPERTIES TESTS

Visual Classification, ASTM D2488 .....	20.00
Engineering Classification, ASTM D2487 .....	25.00
Moisture Content and Dry (bulk) Density,	
ASTM D2216 and D2937 .....	25.00
Moisture Content, ASTM D2216 .....	20.00
Shrinkage Limit, ASTM D4943 .....	85.00
Atterberg Limits, ASTM D4318	
Several points .....	150.00
One Point .....	50.00
Particle Size Analysis, ASTM D6913	
Fine Sieve, from #200 to #4 .....	100.00
Coarse and Fine Sieve, from #200 to 3 in. ....	180.00
Hydrometer .....	120.00
Percent Passing #200 Sieve, ASTM D1140 .....	80.00
Specific Gravity	
Fine, passing #4 sieve, ASTM D854 .....	100.00
Coarse, retained on #4 sieve, ASTM C127 .....	100.00
Sand Equivalent Test, ASTM D2419 .....	120.00
Double Hydrometer Dispersion, ASTM D4221 .....	150.00

#### COMPACTION AND BEARING STRENGTH

Standard Proctor Compaction, ASTM D698 or ASTM D1557	
Method A or B .....	200.00
Method C, 6" mold .....	210.00
California Impact Method, Caltrans 216 .....	220.00
R-value, ASTM D2844 and CTM301 .....	270.00
California Bearing Ratio (CBR), ASTM D1883	
1 Point .....	530.00
3 Points .....	750.00
Relative Density	
0.1 Cubic Foot Mold .....	200.00
0.5 Cubic Foot Mold .....	300.00

#### SHEAR STRENGTH

Torvane/Pocket Penetrometer .....	25.00
Direct Shear	
Quick Test .....	75.00
Consolidated, Drained, granular soil,	
ASTM D3080 .....	220.00
Consolidated, Drained, fine grained soil,	
ASTM D3080 .....	260.00
Consolidated, Undrained, fine grained soil .....	220.00
Residual Strength, per cycle .....	70.00
Remolded Specimens .....	70.00

#### STATIC UNIAXIAL AND TRIAXIAL STRENGTH TESTS (PER POINT)

Unconfined Compression, ASTM D2166 .....	150.00
Unconsolidated, Undrained, ASTM D2850 .....	160.00
Consolidated, Undrained, per point .....	700.00
Consolidated, Drained, per point .....	700.00
With Pore Pressure Measurement, per load .....	150.00
Remolded Specimen .....	90.00

#### CONSOLIDATION (ASTM2435) AND SWELL COLLAPSE (ASTM D4546) TESTS

8 Load Increments .....	250.00
Additional Load Increment .....	50.00
Time-Ratio, per load increment .....	90.00
Single Point, collapse test .....	90.00

Single Load Swell, ASTM D4546	
Ring Sample, Field Moisture .....	95.00
Ring Sample, Air Dried .....	95.00
Remolded Sample .....	70.00
Expansion Index Test, UBC 29-2/ASTM D4829 .....	130.00

#### HYDRAULIC CONDUCTIVITY TESTS

Constant Head, ASTM D2434 .....	250.00
Falling Head Flexible Wall, ASTM D5084 .....	300.00
Triaxial Permeability, EPA 9100 .....	350.00
Remolded Specimen .....	60.00

#### CHEMICAL TESTS

Corrosivity (pH, resistivity, sulfates, chlorides) .....	220.00
Organic Content, ASTM D2974 .....	100.00

**Conditions:** Unit rates presented on this fee schedule are for routinely performed geotechnical laboratory tests. Numerous other earth material physical tests can be performed in our geotechnical laboratories, including rock core, soil cement and soil lime mixture tests. Tests not listed can be quoted upon request. This fee schedule is valid through December 31, 2022.

Prices are based on the assumption that samples are uncontaminated and do not contain heavy metals, acids, carcinogens and/or volatile organics which can be measured by an organic vapor analyzer or photoionization detector with a concentration greater than 50 parts-per-million (ppm). Quoted testing fees are based on the assumption that no protective clothing will be required to handle samples. If Level D protective clothing will be required during handling of samples (as defined in Federal CFR Part 1910.120), then a 40% increase in fees presented in this schedule will be applied. Level C protective clothing will be a 60% increase in fees. Converse will not handle samples that require either Level B or Level A protection in our geotechnical laboratories. Contaminated samples will be returned to the client. Uncontaminated samples will be disposed of 30 days after presentation of test results. The client must disclose the source of samples. Samples imported from out of state will be incinerated after testing in accordance with requirements of the United States Department of Agriculture. Soil samples obtained within the State of California currently designated quarantine areas will also be incinerated in accordance with the requirement of the State of California, Department of Food and Agriculture, Division of Plant Industry, Pest Exclusion. A \$5.00 incineration fee will be added to each sample that is required to be incinerated in accordance with State and Federal law.

Test results requiring plots will be presented in a publishable format generated from computer programs. Otherwise, raw test numbers will be presented. A minimum laboratory fee of \$50.00 will be charged to present and mail test results. Beyond the standard U.S. Mail delivery, specialized transmittal will be charged at additional cost (e.g., Federal Express, UPS, etc.). Geotechnical testing does not include engineering and/or geologic review and analysis. Typical turnaround for geotechnical laboratory testing is two weeks (or roughly ten working days). To expedite test turnaround to five working days, a 50% increase in the fees in this schedule will be applied. Many geotechnical tests require at least one week to perform in accordance with ASTM or other standard specifications. Fees presented in this schedule for relatively undisturbed direct shear, consolidation or expansion pressure tests are based on the assumption that 2.416-inch inside diameter brass ring samples will be provided to the geotechnical laboratory for testing. Remolded specimens will be compacted in standard 2.5-inch outside diameter brass rings for direct shear, consolidation and expansion pressure tests. All fees presented in this schedule are based on the assumption that the client will deliver samples to our laboratory at no additional cost to Converse.

Invoices will be issued monthly and are payable on receipt unless otherwise agreed upon. Interest of 1.5% per month (but not exceeding the maximum allowed by law) will be payable on any amount not paid within thirty days; payment thereafter to be applied first to accrued interest and then to the principle unpaid amount. The Client shall pay any attorneys' fees or other costs incurred in collecting any delinquent amounts.

## CONVERSE CONSULTANTS

### Schedule of Fees – Materials Laboratory Testing

Compensation for laboratory testing services will be based on rates in accordance with this fee schedule which includes test report(s) and engineering time. Costs of tests not on this schedule will be by quote and/or in accordance with our current hourly fee schedule. Our services will be performed in accordance with the General Conditions. This fee schedule is valid through December 31, 2022.

#### AGGREGATES

Moisture Content, ASTM D2216 .....	20.00
Particle Size Analysis	
Coarse, ASTM C136, each.....	100.00
Coarse and Fine, ASTM C136 & C137, each.....	180.00
Specific Gravity & Absorption	
Coarse Aggregate, ASTM C127 .....	100.00
Fine Aggregate, ASTM C128 .....	100.00
Unit Weight per Cubic Foot, ASTM C29 .....	75.00
Soundness, Sodium or Magnesium, ASTM C88, each .....	200.00
Potential Alkali Reactivity, ASTM D289 .....	300.00
Freeze Thaw Soundness.....	175.00
Los Angeles Abrasion, per class, ASTM C131, C535.....	220.00
Sand Equivalent, ASTM D2419.....	110.00
Lightweight Particles, ASTM C123, each.....	100.00
Clay Lumps & Friable Particles, ASTM C142, each.....	120.00
Stripping Test, ASTM D1664, each .....	85.00
Organic Impurities, ASTM C40.....	100.00
Durability .....	By Quote

#### CONCRETE TESTS

Laboratory Trial Batch, ASTM C192 .....	By Quote
Laboratory Mix Design, Historical Data.....	By Quote
Compression Test, 6"x12" Cylinder, ASTM C39, each.....	45.00
Lightweight Concrete	
Compression .....	45.00
Unit Weight.....	45.00
Specimen Preparation, Trimming or Coring, each .....	60.00
Bond Strength, ASTM C321	
Prepared by Converse.....	150.00
Prepared by Others .....	80.00
Core Compression Test, ASTM C12, each .....	80.00
Flexure Test, 6"x6" Beams, ASTM C78, each.....	110.00
Modulus of Elasticity, Static, ASTM C469, each .....	150.00
Length Change, ASTM C157, 3 bars, 5 readings each,	
up to 28 days.....	320.00
Splitting Tensile, 6"x12" Cylinders, each.....	80.00
Field Concrete Control (sampling, slump, temperature,	
cast 4 cylinders, molds, cylinder pick-up, within 10 miles	
of office, stand-by extra), ASTM/UBC, hourly rate	
schedule, or each cylinder.....	95.00
Field Concrete Control (same as above plus air content test),	
ASTM/UBC, each cylinder.....	95.00
Hold Cylinder.....	10.00
Cylinder Mold, sent to job site but not cast by Converse or	
returned to Converse.....	5.00

#### MASONRY (ASTM C140, E447, UBC STANDARD 24-22)

Moisture Content, as received, each.....	20.00
Absorption, each.....	50.00
Compression, each.....	55.00
Shrinkage, ASTM C426, each .....	100.00
Net Area and Volume, each.....	25.00
Masonry Blocks, per set of 9.....	450.00
Masonry Core Compression, each.....	55.00
Masonry Core Shear, each.....	55.00
Masonry Core Trimming, each.....	55.00
Compression Test, grouted prisms, 8"x8"x16", each.....	120.00
Compression Test, grouted prisms, 12"x16"x16", each.....	130.00
Compression Test	
2"x4" Mortar Cylinder, each .....	45.00
3"x6" Grout Prisms, each.....	45.00
2" Cubes, ASTM C109, each.....	45.00
Cast by Others.....	45.00
Mortar or Grout Mix Designs.....	By Quote

#### FIREPROOFING TESTS

Oven Dry Density, per sample .....	70.00
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#### MOISTURE EMISSION TEST

Moisture Emission Test Kit.....	80.00
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#### ASPHALTIC CONCRETE

Stability, Flow, and Unit Weight, ASTM D6927 .....	220.00
Marshall ASTM D1559, ASTM D2726.....	220.00
Measured Maximum Specific Gravity of Mix, ASTM D2041,	
Rice Method, each .....	95.00
Void Analysis of Cores or Marshall Specimens,	
Calculations Only, ASTM D3203, set of 2 or 3.....	60.00
Laboratory Mixing of Asphalt & Concrete, per sample.....	75.00
Complete Asphalt Concrete Mix Design	
Hveem or Marshall .....	By Quote
Extraction of Asphalt and Gradation, ASTM D2172, Method B,	
or California 310, including ash correction, each .....	220.00
Extraction of Rubberized Asphalt & Gradation, each.....	250.00
Specific Gravity, ASTM D2726 or ASTM D1188	
Uncoated.....	95.00
Coated.....	105.00
Immersion-Compression .....	400.00
Particle Coating, ASTM D2489 .....	60.00
Stripping, ASTM D1664 .....	70.00
Moisture or Volatile Distillates in Paving Mixtures, or	
Materials Containing Petroleum Products or	
By-Products.....	220.00
Retained Strength, ASTM D1074/D1075, 6 specimens.....	By Quote
Retained Stability, Mil, Std, 520A, Method 104,	
6 specimens .....	By Quote
CBR, ASTM D1883, including M/D Curve, 1 point .....	350.00
Asphalt Temperature.....	15.00

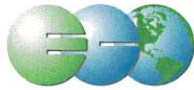
#### STRUCTURAL STEEL

Tensile Test #9 Bar or Smaller, each .....	60.00
Bend Test #9 Bar or Smaller, each .....	60.00
Tensile Test #10 Bar or Greater, each .....	280.00
Tensile Test #14 Bar, each .....	310.00
Rebar Coupler Tensile Test .....	100.00
Tensile Test, Welded #9 Bar or Smaller, each .....	100.00
Tensile Test, Welded #10 Bar or Greater, each .....	280.00
Tensile Test, Welded #14 Bar, each .....	310.00
Tensile Test, Mechanically Spliced, #9 Bar or Smaller,	
each .....	180.00
Tensile Test, Mechanically Spliced, #10 Bar or Greater,	
each .....	350.00

#### HIGH STRENGTH BOLT, NUT, AND WASHER TESTING

Wedge Tensile Test, A490 Bolts	
Under 100,000 lbs., each .....	65.00
Over 100,000 lbs., each .....	75.00
Wedge Tensile Test, A325 Bolts	
Under 100,000 lbs., each .....	80.00
Tensile Test, Anchor Bolts, tested with displacement	
transducers, each.....	300.00
Nut Hardness, Proof & Cone Proof Load Test, each.....	50.00
Washer Hardness, each.....	50.00
A325 or A490, Bolt Hardness Only, each.....	50.00
Bolt A325 or A490 Wedge Tensile	
Under 100,000 lbs. & Hardness, each.....	90.00
Over 100,000 lbs. & Hardness, each.....	150.00
Bolt, Nut & Washer, all tests per set with bolts	
Under 100,000 lbs. ....	300.00
Over 100,000 lbs. ....	380.00

See *Schedule of Fees – Geotechnical Laboratory Testing* for soil testing. Hourly rates are available upon request. Field Laboratory rates are available upon request. Listed unit rates are based upon the assumption that samples will be delivered to our laboratory at no cost to Converse.



## ECORP Consulting, Inc. – 2022 Rates

Labor Category (Technical Personnel*)	Hourly Rate (\$)	Labor Category (Support Personnel)	Hourly Rate (\$)
Principal IV	310.00	GIS Specialist III	165.00
Principal III	275.00	GIS Specialist II	140.00
Principal II	240.00	GIS Specialist I	120.00
Principal I	225.00	GIS Technician	100.00
Senior IV	210.00	Technical Editor	155.00
Senior III	190.00	Publications Specialist II	120.00
Senior II	175.00	Publications Specialist I	100.00
Senior I	160.00	Accountant III	160.00
Staff III	150.00	Accountant II	135.00
Staff II	140.00	Accountant I	115.00
Staff I	135.00	Clerical	90.00
Associate III	125.00		
Associate II	115.00		
Associate I	105.00		
Assistant III	100.00		
Assistant II	95.00		
Assistant I	85.00		
Technician III	80.00		
Technician II	75.00		
Technician I	65.00		

\*Technical classification includes biologists, regulatory permitting specialists, archaeologists, architectural historians, paleontologists, air quality/greenhouse gas specialists, noise specialists, planners, CEQA/NEPA specialists, UAS pilots, and other technical professionals.

### **Other Direct/Reimbursable Costs**

- ◆ Reproduction, equipment, and other direct expenses are reimbursed at cost plus a 14-percent administrative handling charge (excluding mileage).
- ◆ Mileage will be billed at the current IRS rate, adjusted annually.
- ◆ The hourly rates for subconsultants will be billed at the hourly rate indicated, plus a 12-percent administrative fee.
- ◆ Expert Witness Testimony, including Depositions, is billed at time and a half.
- ◆ ECORP will review our hourly rates annually and may choose to escalate our rate sheet depending on changes to the cost-of-living index and other factors.
- ◆ Non-standard invoicing will be billed at the hourly rates for support personnel.