

December 19, 2019

City of Garden Grove
Mark Uphus, PE—Senior Civil Engineer
11222 Acacia Parkway
Garden Grove, CA 92842

*PO Box 909
Murrieta 92564*

Subject: 2019 Request for Proposal for On-Call Inspection Services

Dear Mr. Uphus:

Wallace & Associates Consulting, Inc. (W&A) is pleased to present our proposal to provide On-Call Inspection Services for the City of Garden Grove (City). W&A is a local leader in performing these exact services on similar projects for public agencies, including Garden Grove, and throughout Southern California.

About W&A. Since establishing the firm in January 2010, our mission has been to provide cost-effective project implementation, construction phase services and staff augmentation solutions for public agencies such as the City. W&A was designed to address the difficult economic conditions that had affected the country. One competitive advantage is our lean overhead structure. By keeping our costs low, we provide W&A employees better pay/benefits and charge city and public agency clients less for the same high-quality staff and service; this is what sets us apart from other companies. As the California economy has grown and stabilized, W&A has also grown; however, we still maintain our commitment to providing low cost/high quality Project Management, Construction Management, Construction Inspection and Labor Compliance solutions for our clients. W&A believes we can continue to serve our mission by assisting the City's Capital Projects Engineering group provide service to its roughly 175,000 residents.

Currently, W&A has over 40 associates with varied backgrounds and experience in public works project implementation. W&A has a proven track record in providing a full range of services including:

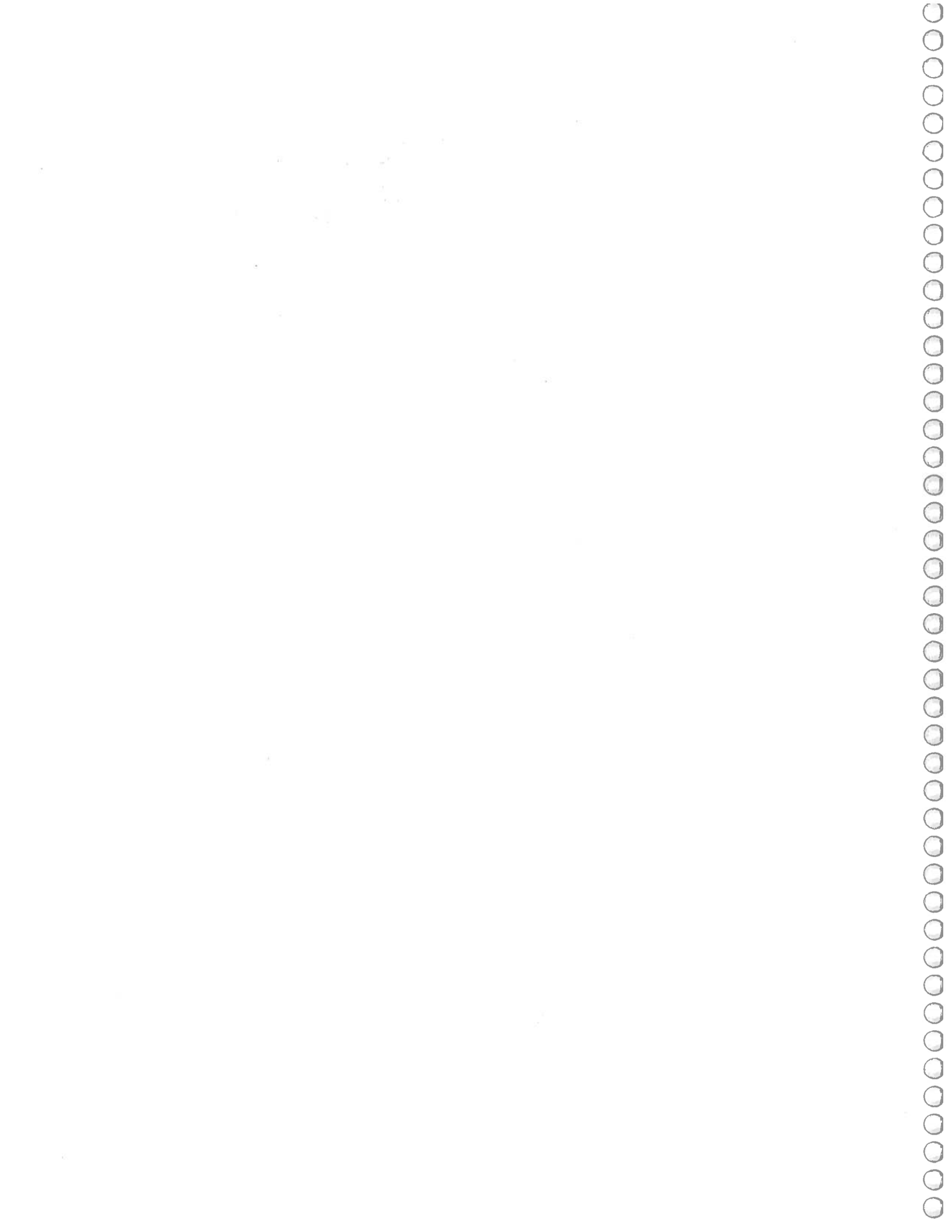
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| ✓ Full Time Inspection | ✓ Staff Augmentation | ✓ Constructability Review |
| ✓ Part Time Inspection | ✓ Labor Compliance Auditing | ✓ Field Engineering |
| ✓ Construction Management | ✓ Grant Funding Monitoring | ✓ Estimating |
| ✓ Project Management | ✓ Plan and Specification Review | ✓ Cost and Schedule Engineering |

W&A has a strong reputation in providing highly qualified staff of project managers, construction managers, construction inspectors, project engineers, office engineers, labor compliance and administrative staff to complete a wide range of CIP and development projects. These projects have included street rehabilitation, traffic signals, storm drain, medians, ADA ramps, alley paving, slurry seal, parks, landscaping, mitigation areas, street lights, facility improvements, water reservoirs, domestic water pipeline, sanitation collection, non-potable water and irrigation pipelines, wells, pump/booster stations, water/wastewater treatment facilities, stormwater facilities and groundwater replenishment facilities.

Our proposal will demonstrate in detail why W&A would be a great company to continue to assist the City in implementing its capital projects. Our key strengths include the following:

Local Experience. W&A and its staff have performed similar On-Call CM and Inspection services for cities in Orange County and Southern California including Garden Grove, Fullerton, Irvine, Lake Forest, Huntington Beach, Laguna Niguel, Yorba Linda, Manhattan Beach, Culver City, Torrance, Santa Fe Springs, Chino, Corona, Murrieta, Temecula, Ontario, Pomona, Rialto, Fontana, Oceanside, Escondido and Banning. W&A has also provided these same services for water districts including Inland Empire Utility Agency, Corona Department of Water and Power, Rancho California Water District, Elsinore Valley Municipal Water District, Western Municipal Water District and Jurupa Community Services District.

An Experienced Team. Our Project Manager, Carl Wallace, PE, will be the point of contact for our team and our services. Once our work starts, he will provide QA/QC for our company and have overall responsibility for the performance of our team, the satisfaction of the City with the services our team will provide, and the overall success of the projects with which we are tasked. Carl brings strong management experience having worked throughout the state for over 28 years on major projects in the construction phase. He has managed similar as-needed construction services contracts on a statewide basis and has worked in the counties of Riverside, San Bernardino, San Diego, Orange, San Jose, Los Angeles, Sacramento, San Francisco, Modesto, Tulare and Mono. He has also managed statewide contracts for Caltrans in Districts 5, 6, 9, 10 and 11. He is currently managing similar contracts for cities including Garden Grove, Irvine, Fullerton, Lake Forest, Huntington Beach, Corona, Rialto, Murrieta, Chino, Temecula, Santa Monica, Manhattan Beach, Culver City, Ontario and Pomona and utility agencies including Coachella Valley Water District, Inland Empire Municipal Water District, Indio Water Authority, Rancho California Water District, Ontario Municipal Utilities Company, California American Water Company, Valley Center Municipal Water District, Elsinore Valley Municipal Water District and Inland Empire Utilities Agency.



W&A only provides Project Managers, Construction Managers and Inspectors that each have over 20 years of experience completing public agency CIP projects in Southern California. Our W&A team members have previously worked for dozens of years within local City Public Works Departments, Water Departments, Utility Agencies, engineering consulting firms and even as contractors. Our Project Managers are certified Professional Engineers and/or Construction Managers; most have worked internally as city staff and served as consultants. Our Construction Managers either have worked as a contractor, have a professional engineer license, or both and have earned specialized certifications including Certified Construction Manager. With our large group of over 25 inspectors, each bringing over 20 years of similar experience on capital and development projects, we are able to staff jobs with the right qualifications whenever the City may need help. Our inspectors have excellent qualifications, including numerous certifications related to construction inspection. These certifications include APWA, ACIA, QSP, and D-1, D-2, D-3, D-5, T-1 T-2 and T-3 certifications for water distribution and treatment. We also have staff that are Certified Cross Connection Specialists, Certified Welding and Structural Steel Inspectors, NACE Certified Coating Inspectors and numerous inspection staff with reinforced concrete, structural steel and asphalt inspection certificates through ICC and ACI. They also have experience with testing related to water projects, including hydrostatic testing, chlorination/de-chlorination, dewatering and bac-t tests. In addition, W&A has a team of Labor Compliance Administrators able to provide prevailing wage, Davis Bacon and DIR monitoring, review and assistance during all phases of the project. Most importantly, W&A is able to offer these services as a complete all-inclusive construction management team or individually as full and/or part time support to the City.

W&A Wants to Continue to Provide Excellent Services as Part of Your Team. W&A is a true partner and can work with the City to achieve its staffing needs to provide high quality services to its service area. We are eager to continue to be a part of Garden Grove's construction team and to help the City staff in successfully implementing capital projects and additional services such as street, storm drain, water, sewer and traffic signal improvements to implement its capital projects. Our team is headquartered in nearby Corona and we are committed to exceeding the City's goals for project success. We highlight the following qualifications that we believe makes the Wallace & Associates Team a great partner to continue to assist your City:

- ✓ **Construction Services Specialists:** W&A was established exclusively to provide project management and construction phase services. Our expertise in this area of professional construction engineering and inspection services is a major advantage in selecting our company for this assignment. Also, since we provide exclusively construction services, we are not burdened by the office overhead, equipment and staff costs required to manage a design practice. This allows us to pass on savings to our clients. Our staff resides on the job site and we believe this leads them to be more dedicated to the project and the client. Our management staff comes to them, allowing all of us to stay focused with the progress of the work, the activities of our staff and the overall satisfaction of the client.
- ✓ **Construction Management Tools:** W&A utilizes standardized forms and tracking tools to manage the project documentation. We have established daily reports that our inspectors complete using their laptops and air cards to complete their reports at the end of the day. The end result is that our service meets and exceeds the City's requirements and provides the level of detail to fully document the work each day; this data also provides a framework of documentation for funding reimbursement. We provide our staff with all necessary equipment to do their job. They have construction vehicles with clear company identification, safety lights and tools to perform their inspections. They are also equipped with cell phones, laptop computers, printers (if needed), fuel cards, maintenance cards, and all personal safety equipment.
- ✓ **High Quality/Low Cost Staff:** W&A has experienced staff that would be dedicated to the City's projects. We also have high quality back-up and part time Inspectors as well as Construction Managers that we can consistently provide as inspectors for the City's projects. Our low overhead results in rates which allow us to provide Construction Managers for the same or lower cost than other companies charge for Inspectors. Providing cost savings and excellent overall value to the City is our top priority.

Scope of Services Overview. Based on our reading of the RFP, we understand the City will need on-call inspection services to support upcoming capital improvement projects. The level of staff required for these projects will vary based on each individual project's size and the City's available internal resources. The City will benefit from a firm able to provide flexible and nimble staffing solutions to fit the projects' budgets and needs. W&A brings a solid reputation of providing CM and Inspection services to Garden Grove and similar cities and public agencies and appreciates the opportunity to continue to offer the City these same resources.

We realize Garden Grove has many options in selecting Construction Management and Inspection firms, and we respectfully present an overview of W&A's qualifications and relevant distinguishing factors that demonstrate why we are the best solution for providing these services.

For the past ten years clients have continued to choose W&A for our responsiveness, our experience in a variety of CIP and development projects and our staff's ability to help ensure the success of every project. Several of our clients have renewed their initial contracts with us since our formation as a company.

As W&A's President, I have spent my 28-year career delivering project and construction management solutions throughout Southern California. Since starting the firm ten years ago, I have focused on providing exceptional value and service to clients like the City on all aspects of public works and related capital projects for cities and other public agencies. I will serve as the Project Manager/Resource Manager for the contract. I can be reached by phone (951) 966-7774 and email: carl@wallace-cm.com. Mailing Address is PO Box 909, Murrieta, CA 92564.

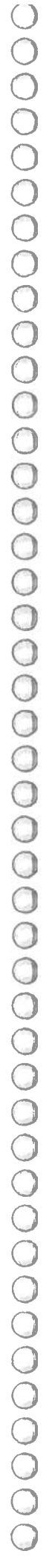


W&A has the ability and willingness to comply with all provisions stated. This proposal shall be valid for ninety (90) days from the date of the submittal. W&A is excited for the opportunity to continue to provide On-Call Inspection Services to the City of Garden Grove and believe our detailed qualifications that follow this letter will meet and exceed the City's requirements.

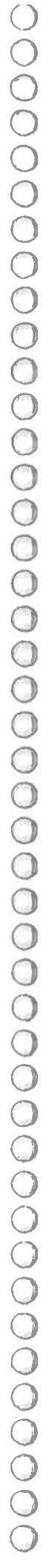
Sincerely,



Carl Wallace, PE
Project Manager / Principal



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Section 2 – Understanding and Approach



Wallace & Associates Consulting, Inc. (W&A) provides Project Managers, Construction Managers and Inspectors, the majority having over 20 years of experience, who have completed hundreds of public agency CIP projects in Southern California. Our Project Managers are licensed Professional Engineers with experience in all aspects of design and construction. Our Construction Managers have either worked as a contractor or have a professional engineer license, or both and have earned specialized certifications including Certified Construction Manager. Our Inspection staff has diverse and relevant certifications to help with every aspect of projects including ACIA, QSP and ICC concrete, asphalt and steel certifications. Our W&A team members have previously worked for years within local City Public Works Departments, Water Departments, Utility Agencies, engineering consulting firms and even as contractors.

W&A has relevant PM, CM and Inspection experience and expertise for virtually every type of project that a City could implement in their capital and land development programs. We have an enviable track record of providing highly qualified and experienced staff to support any project within Southern California. Our Project/Construction Managers and Inspectors each bring in-depth understanding of project life cycles, potential challenges and the ability to provide resolutions for any encountered issue. Their CIP work encompasses the following types of projects:

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| ✓ Drainage improvements | ✓ Water storage and distribution | ✓ Sports fields |
| ✓ Traffic signals | ✓ Well drilling and equipping | ✓ Bike trails |
| ✓ ADA upgrades | ✓ Emergency projects | ✓ Street lighting |
| ✓ Sidewalks, curbs and gutters | ✓ Parks | ✓ Buildings |
| ✓ Streets | ✓ Open space amenities | ✓ CIPP Rehabilitation |
| ✓ Water/Wastewater treatment plants | ✓ Landscaping | ✓ Bridges |
| | ✓ Playground equipment | ✓ Wet and dry utility installation |

With over 40 associates, W&A can provide the City with a full Engineering Services Team with services including not only Inspection, but also Project Management, Construction Management, Specialty Inspection, Office Engineering, Labor Compliance and Administration out of our Corona office. These resources ensure W&A is capable of working on a variety of public works infrastructure projects. In fact, W&A has provided the exact requested services for numerous clients throughout Southern California. Additionally, 75% of our contracts are for on-call services for Southern California cities and agencies. We have consistently provided top quality experienced staff to cities and agencies on very short notice (24 to 48 hours). We obviously would like as much notice as possible to provide solid staffing solutions, but City staff can rest easy knowing that we can perform under all circumstances and with short notice.

Clients continue to choose W&A for our responsiveness, our experience in a variety of CIP and Development projects and our staff's ability to help ensure the success of every project. We are proud of the fact that several of our initial clients have renewed multi-year contracts with us over the years. Please refer to our cover letter for a list of our current southern California clients.

Approach to Delivering Services

W&A believes that the ability to deliver high-level services and error free deliverables to our clients is the direct result of four Key Factors:

- ✓ Recent relevant experience and training
- ✓ Proactive management and communication plan
- ✓ Commitment to problem solving
- ✓ QA/QC Plan

Recent Relevant Experience and Training. Our W&A team members have previously worked for years within local City Public Works Departments, Water Departments, Utility Agencies, engineering consulting firms and even as contractors. The majority have a minimum of 20 years of professional CM and/or inspection experience. All have been successfully vetted and confirmed by the rigors of the municipal and/or State Public Agency System and bring that specific knowledge of the process and system to each project. Many possess relevant, specialized certifications. This background ensures that every member of our project team understands that all work must be constructed in accordance with the City's, local and regional standards. Knowing and being familiar with these standards is the foundation for ensuring high quality. Our Construction Managers and Inspectors routinely serve as a reference and resource pertaining to questions regarding construction management and inspection principles, policies and practices.

Proactive Management and Communication Plan. W&A is very proactive in our approach to project delivery. At the beginning of each project we prepare a project management action plan which outlines the roles and responsibilities of our staff and the client team, including third parties and other stakeholders. This document allows us to clarify, document and stack hands in agreement of the expectations for each team member.



Section 2 – Understanding and Approach

A key aspect of our approach is teamwork and effective, regular communication with both clients and stakeholders. We rigorously interview and hire staff with excellent communication and verbal skills. This sets the bar very high, but we have found these skills lead to the best possible outcomes for our clients. We pride ourselves in maintaining a professional and smooth operation throughout projects.

Prior to starting work our Project/Construction Manager will facilitate the collaboration with the Project Manager/Engineer for the City. Typical items to communicate, depending on the type of work, include review of all plans, special provisions, construction and materials manual, and specifications that apply to the assigned project, review the day to day project responsibilities, review the content and format of the daily inspection reports for the project, review the required testing procedures and forms, and discuss roles and responsibilities regarding the City's procedures for notifications, changes, corrections, delays, rejections and tolerances.

For example, for an Inspection assignment, our staff will coordinate with the City's management each day and review the known activities and their anticipated times. We will develop a work progress plan and schedule for their activities and progression of where they need to be throughout the day. As activities pick up we can plan for additional part time or day-to-day support if needed, as well as coordinate with the City staff that may have availability at times to assist in covering the work. Prioritizing the work is also important, placing inspection of structures and buried infrastructure ahead of lesser important items of work. The key to dealing with multiple project locations is proactive planning, coordination and constant communication with the field staff.

Commitment to Problem Solving. We have a deliberate business strategy to attract and hire professional individuals with a very high level of personal commitment to problem solving. While commitment is not a true technical ability, it is certainly an interpersonal trait that is oftentimes the main driver in all of our success. A great example of commitment to problem solving involves the recent experience of one of our Construction Managers. During his first week on a job, he could not figure out why the contractor was using potable water for the draw pond in support of the mass grading operation when there was nearby available recycled water. When he asked about it, the contractor they said that they could not use it because there was always a conflict with the adjacent park, parkways and median landscape watering schedule. Unwilling to accept that answer, our CM went to every irrigation timer and checked the start and stop times for each circuit. The CM then came up with a draw pond water schedule to allow for the filling of the pond with reclaimed water. We received feedback from the contractor that our CM had saved them up to \$30K/month with that seemingly simple amount of effort. This initial gesture helped create a collaborative environment where that project ran extremely smoothly throughout the nine-month contract.

Quality Assurance/Quality Control Plan. W&A will administer a program of Quality Assurance/Quality Control (QA/QC) procedures for producing quality work and shall effectively manage and control the work and the budget. The foundation of our QA/QC plan is built upon the prior described Key Factors; we then add our established project controls and documents file structure system and implement it with our Office Engineers and Construction Coordination Specialists to provide continuity, consistency and instant accessibility and availability of data to the client. Our field staff is adept at communicating clearly verbally and in writing for construction documentation. We conduct internal Daily Inspection Report training sessions and apply this same training standard and sign off for subconsultant inspectors as well.

Our QA/QC plan covers each of our typical project deliverables for our Construction Management, Inspection, Labor Compliance and Materials Testing services. Deliverables include:

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| ✓ Weekly Reports | ✓ Employee Interviews | ✓ Punch Lists |
| ✓ Monthly Progress Reports | ✓ Certified Payroll Audits | ✓ Water Shut Down and Tie-in Plans |
| ✓ Daily Extra Work Reports | ✓ Weekly Statement of Working Days | ✓ Operations and Maintenance Manuals |
| ✓ Invoices | ✓ Contract Change Orders, Cost Estimates | ✓ Project Certification |
| ✓ Daily Inspection Reports | ✓ Materials Testing Reports | ✓ Proposed Final Estimate |
| ✓ Discrepancy or Non-Conformance Notices | ✓ As-Built Plans | ✓ Final Pay Estimate |
| ✓ Job Site Photos | ✓ Start-up Plans | ✓ Project Files |

Our Monthly Report includes Status Logs of all RFI's, Schedule Reviews, Submittal Reviews, Progress Payments, CCO's, Testing, Special Inspections and Public Contacts. If selected, W&A will provide the City with a detailed Quality Assurance/Control Plan and adjust to mirror the City's requirements.



For ten years clients continue to choose W&A for our responsiveness, our experience in a variety of CIP and development projects and our staff's ability to help ensure the success of every project.



Section 2 – Understanding and Approach



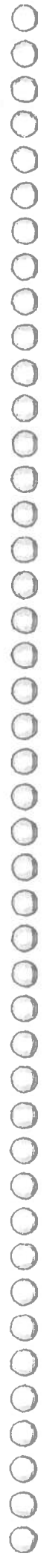
Even with training, communication and internal quality assurance measures, there are times when mistakes are made on a project or a staff conflict occurs. If this should happen, our Project Manager, Carl Wallace, PE, will work closely with the City's project team to first resolve the problem and then put measures in place to ensure future problems are not encountered. While we will always attempt to resolve any issue, we also understand that in rare cases a staff change may be the next necessary step. If this should occur, we will provide the City with resumes of available and comparably experienced staff.

Scope of Work

W&A has reviewed the Scope of Work from the RFP provided by the City covering the areas of Inspection Services. W&A agrees to the scope identified and notes that since these areas form the primary line of our core business, we have a high level of expertise and experience in performing these services. The actual approach to each project would appropriately vary with the status, complexity and size of the project. Below are the specific scope items from the City's RFP. These are followed by our detailed W&A scope for managing projects and providing inspection services for our clients.

Inspection Services Scope. Per the RFP, the scope of services includes, but is not limited to, the following:

- ✓ Provide daily and possibly intermittent inspection services of the work covered in the contract documents.
- ✓ Ability to review, accurately interpret and implement the provisions of contract documents, soils reports, survey data, Caltrans Standard Specifications, "The Green Book" and the Garden Grove Municipal Code.
- ✓ Serve as the City's representative and liaison to the contractor and his staff during the construction of the project.
- ✓ Firmly, confidently and professionally confront the contractor for unacceptable work, practices and unsafe conditions.
- ✓ Review and provide recommendations on contractor submittals and shop drawings.
- ✓ Effectively and expeditiously communicate with City staff, design consultants and Contractor to identify conflicts, construction problems and coordination issues to obtain needed action.
- ✓ Review, collect, organize, and approve load tickets from material providers.
- ✓ Confidently and professionally reject materials not meeting specifications.
- ✓ Confirm in writing that work being inspected conforms to the contract requirements and promptly report unacceptable work to the Contractor and Engineer.
- ✓ Prepare and submit to the City complete and accurate daily inspection reports documenting the contractor's workforce, material and equipment used, a summary of construction activities, field problems, disputes or claims, resolutions of issues, directions given to the contractor and photographs of the work performed each day. The inspection reports shall be completed daily and copies submitted to the City weekly.
- ✓ Prepare and submit documents of quality and caliber so as to pass the scrutiny of FHWA and Caltrans for federally and state funded projects.
- ✓ Monitor project work and adjacent areas for unsafe conditions and promptly report it to the Contractor and the Engineer for resolution.
- ✓ Enforce all of the provisions of the Storm Water Pollution Prevention Plan and all NPDES provisions.
- ✓ Perform all duties in a manner that promotes the cost-effective execution and progress of the work.
- ✓ Coordinate compaction and materials testing using City's geotechnical consultant.
- ✓ Establish and maintain compaction location records to verify compaction coverage.
- ✓ Verify and sign contractor's daily extra work reports documenting force account (time & materials) work.
- ✓ Assist Engineering staff in contract change order negotiations with Contractor.
- ✓ Review Contractor's payment requests and verify quantities of completed work for progress payments to the Contractor.
- ✓ Issue verbal instructions to contractor regarding routine matters and follow up with written instructions for more important or formal matters and as directed by the Engineer.
- ✓ Conduct an end-of-project inspection and prepare a written punch list documenting incomplete or corrective work.
- ✓ Conduct final inspection to verify that all items on the punch list have been completed or corrected and make a written recommendation to the City concerning acceptance of the project.
- ✓ Verify Contractor's progress on as-built plan preparation monthly. Verify that the as-built plans submitted by the Contractor are accurate.
- ✓ Track survey monument and tie preservation/replacement with contract work.
- ✓ Confirm the reestablishment of survey monumentation in keeping with Senate Bill 1563.
- ✓ Perform project closeout duties including final organization of project files and submit to City for approval.
- ✓ Conduct employee interviews for State and Federally funded projects and compare stated wages with the contractor's certified payroll.



Section 2 – Understanding and Approach



W&A Inspection Approach. Construction inspection is all about documenting the project and getting the material and facilities put in place in accordance with the regional standards and project documents. W&A understands that each inspection report is a legal document and we treat them as such. The Inspector is on site to observe and confirm the quality of the field work. Key activities include:

Familiarity with the Project: The first thing we do prior to the start of work is become familiar with the project. In order to acquire this familiarity W&A will visit the project site and construction areas. When the plans and specifications are currently being developed, W&A will review project scope and become familiar with the following:

- ✓ Construction drawings showing details of the proposed method of construction
- ✓ Phasing, scheduling and sequencing of operations to be performed during construction
- ✓ Methods of pedestrian and vehicular traffic control in the project vicinity
- ✓ Required project signage and notifications to the public
- ✓ Methods of resolving conflicts in the plans and specifications
- ✓ Methods of resolving construction delay
- ✓ Methods of resolving contract change order
- ✓ Process for coordinating construction with underground utility agencies
- ✓ Review of soil reports, material testing, and construction material submittals
- ✓ Document pre-work video and photographs of the project areas

Constructability Review: When a project bid opening occurs prior to our contract start, we will quickly review all documents and look for potential changes and make the City aware of any recommendations that we may have.

Authority: W&A will review our role and responsibility for each project we work on with the City. The authority level of our specific role, lines of communication and approvals for our specific scope of work will be reviewed and established, so we all start the project on the same page. We work diligently to identify and clarify W&A's specific authority levels for RFI's, CCO's, PCO's, Submittals and Progress Payments at the onset of the project prior to start of construction. The City has established signature authority and procedures and forms that we will review and ensure we understand our role and authority on each project.

Pre-Construction Conference: W&A Inspector will attend the Pre-Construction Meeting. The Inspector can assist in notification to contractor, utility agencies, and other stakeholders, and prepare the meeting agenda and minutes. The agenda and minutes should include the following items, at a minimum:

- ✓ Introduction of key personnel
- ✓ Responsibilities of City
- ✓ Safety responsibilities of contractor
- ✓ Overview of project
- ✓ Confirmation of fully executed contract documents and Notice to Proceed
- ✓ Establishment of contract time and completion date
- ✓ Review of working day definition and holiday schedule
- ✓ Identify overall project goals will be identified
- ✓ Provide chain of communication and key contacts
- ✓ Overview of public relations
- ✓ Discuss and define scope, critical design elements, schedule and cost factors
- ✓ Discuss experience and key roles in the project
- ✓ Identify potential issues and critical items
- ✓ Define jurisdictional agencies
- ✓ Discuss master schedule
- ✓ Review sub-contracts
- ✓ Integration of utility coordination activities into schedule
- ✓ Documentation and tracking controls
- ✓ Establish progress payment and change order procedures, scope, schedule and cost change administration, notification requirements, controls, submittal and RFI processes
- ✓ Identify long lead and any substitution and "or-equal" items and testing – review call-out requirements and deputy/ special and testing requirements
- ✓ Review survey for consistency with the design
- ✓ Procedures for labor compliance monitoring and reporting
- ✓ Establish understanding of right-of-way, easements and special access considerations, traffic control, placement of signs (etc.)
- ✓ Questions and answers
- ✓ Discuss action item assignments and procedure

Project Communication: W&A Inspection staff has excellent written and verbal communication skills. Simple and clear communication that is similarly documented is what our staff will bring to this project.



Section 2 – Understanding and Approach



Submittal Processing: The Inspector will obtain necessary submittals for compliance with the specifications for each project. He will maintain the current submittals for verification that work in the field in compliance with the approved submittals. All shop drawings, samples and other submittals received from the contractor will be logged in and routed to the City and the designer. Responses will be logged in and transmitted to the contractor. Submittals will be tracked throughout the project to ensure timely response in order to avoid contractor claims for delay. All submittals will be expedited utilizing electronic delivery whenever possible (except for shop drawings, large format documents, etc.). Additionally, W&A will recommend key contractual requirements for the contractor to clearly indicate submittal processing requirements in the project schedule. Submittal comments will be monitored to identify potential impacts to quality, cost or schedule, with recommended alternatives and/or solutions.

RFI's: Upon receipt, the Inspector will log, distribute and respond to each Request for Information (RFI) as required. It is anticipated that most will be handled upon receipt. However, in the event that the design engineer or City staff is required to answer questions, the Inspector will coordinate a timely resolution. W&A will identify potential impacts to cost or time that may result due to issues identified in RFI's, with recommended alternatives or solutions to mitigate the potential impacts.

Weekly Statement of Working Days: When applicable the W&A Inspector will prepare a weekly statement of working days documenting the construction progress, time of completion, delays and time extensions, and submit to contractor and the City on a weekly basis. The weekly statement of working days is typically discussed and agreed upon at each progress meeting and transmitted as an attachment to the minutes.

Problems and Solutions: The W&A proactive approach serves to anticipate and expeditiously resolve field problems. Our team is well trained in problem solving. All issues are processed with a sense of urgency and presented to the City with suggested alternatives, cost and schedule impacts and recommended solutions. The W&A staff will quickly implement the alternative which suits the best interests of the project and the City. W&A will effectively and quickly communicate with City staff, design consultants and the contractor to identify conflicts construction problems, coordination issues, and will obtain the needed action and response to submittals and RFI's.

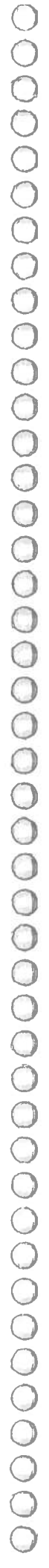
Project Controls: Complete and current project files will be kept at the job site, or at a location agreeable to the City, and these will always be available to the City. Electronic copies of files will be accessible to the City on our cloud storage site. These files will consist of the contract, correspondence relating to or modifying the contract, proposal requests, clarifications, permits, logs, reports, RFI's, field orders, change orders, claims information, daily inspection reports, quantity calculations, test reports, etc. The W&A team will prepare a detailed file indexing system for all project hard files, and we would offer an industry standard system for contract administration for logging and tracking of critical issues, change management, RFI's, submittals, digital data and scanned documents. W&A can use City standard or customized forms. We will adapt our system to the specific needs of the project to monitor, track and control the project. This detailed tracking system will enable us to provide an accurate assessment of the progress to the City with recommendations to maintain or improve adherence to the approved project schedule.

Schedule Review: W&A is very familiar with the mainstream scheduling software used by the public works contracting industry including, but not limited to, Primavera P7®, Suretrak® and Microsoft Project®. The W&A Inspector will review the baseline construction schedule, including activity sequences and duration, schedule of submittals and schedule of delivery for products with long lead-times. The schedule will not be approved as the baseline until all discrepancies are resolved. The CM team will evaluate the baseline project schedule for the following:

- ✓ Consistency with the contract schedule (completion within the contract time)
- ✓ Accurate start dates, completion dates, other dates detailed in the contract
- ✓ Any impacts of weather and change orders
- ✓ Sufficient detail – including submittal process and procurement requirements
- ✓ Sequence of construction and correct schedule logic
- ✓ Identification of the critical path and project float
- ✓ Cost spread allocation

Schedule Control: During the progress of construction, the W&A team will compare the contractor's monthly schedule updates to the baseline schedule and any approved time extensions, note any shortcomings and monitor and track corrections by the contractor to keep the project schedule on track. A four week "look-ahead" schedule will be required from the contractor, updated weekly and presented at the weekly construction progress meetings. This tool will keep the entire team looking one month ahead of the project and will facilitate proactive handling of project activities and issues. If necessary, W&A will negotiate time extensions due to change orders or other delays.

Photographs: W&A will prepare and maintain an electronic photo journal documenting the construction progress. Photos will be taken before construction begins, during construction and upon completion of the project. The project will be videoed as well for full capture of all detail prior to construction starting. This is important at the individual residences with separate agreements with the City for easement work.



Section 2 – Understanding and Approach



Contract Conformance: W&A will visit the site during the normal working hours (and when critical activities warrant it) to verify construction progress and to verify that all work conforms to contract requirements. Deputy and special inspection and materials sampling and testing will be coordinated and provided as required by the final plans and specifications. W&A will reject work that does not conform to the requirements of the contract documents and will promptly report unacceptable work to the City and contractor. Rejected work will be thoroughly documented, photographed, and tracked until repaired or replaced to the satisfaction of the City.

Coordination with City: W&A will monitor closely the work of the contractor. The contractor will be required to submit a four-week look ahead of schedule at the weekly meetings. This is a very effective tool in helping to coordinate the construction operation, particularly in relation to any interface operations with the City's activities. W&A will assist the City to minimize disruption to both City and construction operations. Our staff will communicate openly with the project team and constantly be making sure that we are all fully apprised and heading in the same direction.

Job Safety: Job site safety is the responsibility of the contractor. W&A will intermittently check that the contractor is following their approved safety plan. The Inspector will review contractor's safety plan and implement tracking to assure that the contractor is following their safety plan. Our Inspector will notify the City of any accident or incident related to safety.

SWPPP: W&A Construction Managers and Inspectors have QSP certifications. W&A staff will make sure that the approved Storm Water Pollution Protection Plan is distributed to the contractor and City staff, check that the project is loaded on the state database and that the project complies with the approved WQMP. W&A will enforce all provisions of the Plan and/or other requirements set forth in the specifications. W&A staff is well versed in NPDES monitoring through provision of dedicated services for oversight of developers and contractors on behalf of several public agencies. In addition, our QSP staff will prepare and execute the necessary weekly reports as well as mandated pre and post storm reporting as needed.

Materials and Workmanship: W&A will recommend approval of materials and workmanship that meet the contract requirements, in coordination with the authority of the consulting engineer, architect, fire inspector, deputy inspector, or other authorized representative or regulatory authorities having jurisdiction.

Documentation Interpretation and Technical Assistance: W&A will perform the coordination and expediting between the contractor, design team and City staff to clarify any questions for interpretation of the construction documents. Timely, firm and fair determinations will be processed to minimize any cost and time impacts.

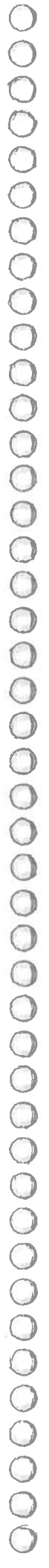
QA/QC: W&A will perform and/or coordinate QA/QC activities daily and review activities as they happen, to make sure that QA/QC procedures are followed, and any deficiencies are resolved in a timely and efficient manner. The Construction Manager/Inspector will maintain a chronological log of all records.

Daily Construction Observation Reports: W&A Inspector will compile daily observation reports documenting the contractor's workforce, all materials and equipment used or idle, a summary of the construction operations, any field problems, any disputes or claims, resolutions of issues and information provided or written directives to the contractor. Completed daily reports will be transmitted to the City on a weekly basis with originals filed and stored appropriately. We typically include job photos with each daily report or categorize them by date and location for storage and "searchability" by title date location or key words on the computer. These are stored on our OneDrive file system which the City can access at any time.

Materials Testing and Observations: The W&A Inspector will monitor testing services, track documentation and record testing results in weekly construction progress meetings. When necessary, corrective measures will be implemented and re-inspected to verify acceptable completion. We will review test reports submitted by others to substantiate compliance and ensure that Certificates of Compliance or source release tags are furnished by the contractor along with the applicable delivered materials at the project.

Change Orders and Daily Extra Work Reports: Each issue which is identified as a potential change to the design, scope, cost or contract time will generate a change notice. W&A will determine if a change notice should be considered. The plans and specifications will be reviewed against the change notice. If the issue does not appear to be included in the plans or specifications, a Request for Quotation (RFQ) will be sent to the contractor. Any credits for work deleted because of the change would be required at that time as well. The contractor's response to the RFQ will be evaluated for reasonableness and completeness. The Inspector will maintain a Potential Change Order (PCO) log, listing potential changes as identified, either formally or informally. This log will be used so that potential change items are not overlooked or deferred until the end of the job. W&A will prepare independent cost estimates as required for contract change orders. Upon approval by the City, the Inspector will prepare, log and process change orders for full execution, and administer their implementation. The Inspector will also detail potential extra work associated with the (PCO) issue in questions for review later if needed through their daily report or if large enough on a separate daily extra work report. Once a CCO is fully executed, the Inspector will review the timely completion of the work and coordinate inclusion of the change order in the appropriate payment application. For tracking extra work or potential change order work, the Inspector will monitor that only appropriate worker classifications necessary for approved time and materials work are included on extra work reports. Any inappropriate workforce and/or equipment charges will be promptly rejected and removed from extra work reports.

Progress Payment Processing: A cost control system based on the contractor's schedule of values, approved change orders and the contract amount will be developed and implemented to monitor progress costs.



Section 2 – Understanding and Approach



W&A Inspectors will review the payment applications submitted by the contractor, check and or verify quantities using measurement of items and verification of the quantities computed and noted in their signed daily reports. The Inspector's daily reports and measurements will determine whether the amount requested reflects the progress of the contractor's work. Appropriate adjustments to each payment application will be required by the contractor. When the payment application has been checked, it will be presented to the City for processing.

Construction Meetings and Field Meetings: The following meetings will be held on site:

Periodic Progress Meetings with agencies, design team and staff to discuss all data included in the monthly progress reports and focus on the following items:

- ✓ Progress during the period
- ✓ Major decisions made
- ✓ Planned vs. actual schedule
- ✓ Upcoming work schedule
- ✓ Current or unresolved problems
- ✓ Anticipated or pending change orders
- ✓ Impacts of problems or change orders on schedule and budget
- ✓ Discussion of new goals
- ✓ Planned vs. actual budget analysis

Weekly Progress Meetings will be mandatory for the contractor and W&A staff, and optional or on an as-needed basis for City and design team staff. All parties are always invited to attend in person or via remote. Meeting minutes are distributed to all team members whether in attendance or not. Discussions will focus on the following items:

- ✓ Contractor's detailed four-week look-ahead schedule
- ✓ Progress and major decisions during the last week
- ✓ Update of unresolved items from previous meetings
- ✓ Status of submittals and change orders

Bi-weekly Safety and Tailgate Meetings will be mandatory for the contractor and W&A staff. Topic summary and sign-in sheet will be kept and distributed to District staff.

Special Meetings will be scheduled as needed to discuss important issues or which require detailed discussion or review of plans and specifications. These meetings will follow the weekly meeting to reduce trips, if issues are not urgent.

Written Instruction: W&A will issue written instructions to the contractor regarding routine matters and/or follow-up of verbal instructions as necessary to properly document project issues. Our inspectors have speed memo forms to document any issue and provide immediately a copy to the contractor.

Plans, Specs and As-Built: W&A will periodically review the contractor's as-built updates on the approved job plan set, identify missing items, and require the contractor to keep as-built records up to date throughout the project. At the City's option W&A will keep its own set of as-built plans, which will note the location of subsurface utilities encountered and/or installed, identify where any design or field changes were required (utilizing the corresponding RFI and/or change order numbers), and note the location of critical building components that are covered by finish work. At the end of the project the final as-built plans are submitted to the City within thirty (30) days of construction completion.

Pre-Final Inspection: The Construction Manager and Inspector will perform the final job walk and prepare the punch list (deficiency list). W&A will coordinate and observe the completion of required corrections. Should the contractor lag on a portion of the completion of project work, W&A will estimate the value of the incomplete items and recommend specific retention amount in accordance with the contract to preserve the City's financial interest. If necessary, a change order will be recommended for approval for completion of the remaining work so that the City may file the notice of completion and start the time after which stop notices and/or claims are no longer valid.

Final Inspection: All corrections must be made before W&A recommends processing of the "Notice of Completion." W&A is noted for our attention to detail. Upon completion of the punch-list and final sign-off by all project stakeholders, W&A will make a recommendation to the City regarding the contractor's final progress payment request and prepare a final progress payment report for submission to the City.

Plant Establishment Period: If there is a landscape maintenance period, W&A Inspector will provide periodic maintenance inspections as specified. Any plant material not thriving will be recommended to be replaced per the contract provisions and new maintenance will be established. Irrigation system coverage and watering times will also be checked and, if any modifications are required, these will be



Section 2 – Understanding and Approach



updated in the operations and maintenance manuals for the system prior to acceptance of the maintenance period and turnover of the system to City maintenance and operations staff.

As-Builts, Operations and Maintenance Manuals: W&A will require that as-builts, operations and maintenance manuals are submitted and that any training would take place prior to relief from maintenance and acceptance of the work. W&A will provide project files in compliance with any funding requirements for the project, include three copies of Operations and Maintenance Manuals, Warranties and Guarantees and generate a list of any follow-up testing or warrantee inspections that may be needed. It is recommended that the City include a follow up schedule to have warranty items checked prior to their anniversary date so that any issues can be resolved under the contract warranty. Project files will be provided along with signed as-builts and job photos (in hard copy folders and electronically in a searchable directory with file name, date and key words).

Delivery of As-Builts and Close-Out Documents: W&A will review as-built plans and prepare as-built reports. W&A will assist the contractor in maintaining a field set of as-built plans to be updated daily and delivered to the City upon project completion. W&A will continually document changed field conditions and not rely on the contractor to document as-built. The Inspector will report and photograph field condition changes. The Inspector will document and keep these as-built conditions on plans on site. W&A will review the contractor's submittal of as-built conditions and compare this submittal to W&A's own documentation. Discrepancies will be discussed, resolved and recorded. Completed as-built plans will be submitted to the City within thirty (30) days of construction completion.

W&A will enforce the provisions of the specifications to require the contractor to submit well-coordinated operations and maintenance manuals, warranties and guarantees, bonds, extra stock and/or other items required by the contract documents such that a timely close-out of the project is implemented. W&A will perform closeout duties including final organization of project files and submit to the City for final approval and assist with the filing of the notice of completion and release of retention.

Operations and Maintenance Manuals: If the project includes items that require an operations and maintenance manual, our Inspector will make sure that these items are submitted and that any training would take place prior to relief from maintenance and acceptance of the work.

Close-Out: W&A will perform closeout duties including final organization of project files and submit to the City for final approval and assist with the filing of the notice of completion and release of retention.

Preliminary Notice and Lien Releases: After all requirements have been met the Inspector will sign off on the appropriate form to recommend approval to recommend release of funds.

Warranties and Guarantees: We will track all material warranties and guarantees identified in the specifications and make sure that we receive the required scope of these as well as the correct number of these documents with contact information, product names and manufacturer's representative and contact information. It is recommended that the City include a follow up schedule to have warranty items checked prior to their anniversary date so that any issues can be resolved under the contract warranty. These will be included in a binder as well as electronically stored for the City.

W&A's Strength in Staff Augmentation for Construction Management and Inspection Services

Expertise: W&A and its staff have the background, resources, track record and relevant experience in successfully delivering public works services to Garden Grove as well as other cities in southern California. We also provide services which include water and sewer should those ever be needed by the City. We have provided Project Management, Engineering, Construction Management and Inspection as a major component of our service to clients since we were founded. We have developed and continuously improved our management systems and modify them to accommodate various funding types and the typical CIP construction projects for the specific purpose of successfully delivering Capital Improvement Projects within a City in accordance with state and local requirements.

W&A also understands the importance of having our staff be experts in their field. Since our defined area of focus is construction services, we provide the appropriate resources to ensure that we offer services of the highest standard available for our specific area of expertise. This includes our PM and CM documentation system, our new and professional equipment and our staff training and recognition systems that allow us to attract and retain some of the best people in the industry.

Experienced Staff: Our goal is to provide our clients with experienced engineering and construction management professionals who possess extensive street, water and sewer expertise. We also strive to provide staff that is registered as appropriate to the level of complexity and type of projects being implemented. We have Project Managers and Construction Managers who are licensed Engineers and have Contractor licenses. Many of our primary inspectors have both contracting background and inspection certifications. These certifications include APWA, ACIA, QSP, and D-1, D-2, D-3, D-5, T-1 T-2 and T-3 certifications for water distribution and treatment. We also have staff that are Certified Cross Connection Specialists, Certified Welding and Structural Steel Inspectors, NACE Certified Coating Inspectors and numerous inspection staff with reinforced concrete, structural steel and asphalt inspection certificates through ICC and ACI. They also have experience with testing related to water projects, including hydrostatic testing, chlorination/de-chlorination, dewatering and bac-t tests. All our staff has recent training in SWPPP/NPDES and other applicable areas of expertise.



Section 2 – Understanding and Approach

Our full-time field staff members are provided a company Ford F-150 Super-Cab or Chevy Silverado Super-Cab vehicle with fuel and maintenance cards. They take these vehicles home at night for security and to not burden the client with additional vehicles to house at their facility. We provide cell phones that will connect with the client staff phones and have unlimited minute plans, so our staff does not need to worry about time usage. We provide staff with digital cameras with adequate storage to document the projects each day. We also provide staff with laptop computers and mobile air cards so they will be able to document their activities as they go, maintain their project records and daily inspection reports as they occur and distribute these reports immediately. We also provide the necessary tools for our field staff to do their job such as: heat gun, survey level, smart level, measuring wheel, tape measure, peep site and flexible rod, and probe. Of utmost importance is the provision of safety equipment (glasses, reflective vests, hard hats, jacket, cones, flares, first aid kit and fire extinguishers). Our goal is to provide our clients with experienced, safe and fully equipped staff so that they are confident in who we provide. This allows the client to focus, without distractions, on doing their jobs of managing their overall construction program.

Resources: W&A's large pool of engineering professionals, construction management and inspection staff enable us to continually attract quality people through employee referrals. This continuous pool of qualified staff allows W&A to provide the high-quality resources to quickly respond to our clients' needs. We have the resources to consistently deliver qualified, friendly, well-trained staff to our clients. We interview new staff regularly to maintain our knowledge of local and qualified available individuals ready to come on board for the next assignment.

Summary: The W&A team has excellent similar professional and field-oriented qualifications, relevant local experience and familiarity with the geographic area of the City of Garden Grove. With our corporate office located in the center of the nearby Inland Empire (Corona) and our steady growth and expansion in the region, we are more than capable of delivering the projects contemplated by the City. In fact, we are the perfect fit in size, expertise, and capabilities to support the City in implementing its capital projects. Our team is eager to continue to deliver high quality projects and staffing solutions to the City.



Section 3 – Company Information



Wallace & Associates Consulting, Inc. (W&A) was established in January 2010 as a sub chapter S-Corporation to provide cost-effective project implementation, construction phase services and staff augmentation solutions for public agencies such as the City of Garden Grove. Our business model is one of lean efficiencies and low overhead, allowing us to pass along savings to our clients. W&A only provides Project Management, Construction Management, Inspection and Labor Compliance Monitoring services to our clients. By not performing design work, we eliminate any potential conflicts of interest or the potential to 'overlook' a design flaw. Currently, W&A has over 40 associates and a pool of several part-time Inspectors able to provide services to clients on short notice. One notable benefit with W&A is our ability to provide part-time Project Managers, Construction Managers and Inspectors (as needed by the client) as well as complete construction management teams. We are able to provide a full range of services including:

- ✓ Project Management
- ✓ Construction Management
- ✓ Construction Inspection
- ✓ Staff Augmentation
- ✓ Engineering Support
- ✓ Labor Compliance Monitoring and Auditing
- ✓ Disadvantaged Business Enterprise Monitoring
- ✓ Cost Estimating
- ✓ Project Scheduling
- ✓ Grant Funding Monitoring

We can provide the City with:

- ✓ Over 40 professionals specializing in Project Management, Construction Management, Construction Inspection, Labor Compliance and Administrative Support
- ✓ Experience with CIP projects including street rehabilitation, overlay, slurry seal, storm drain, alley paving, intersection improvements, traffic signal, street lighting, utility vault and other structures, medians, driveways, landscaping and irrigation, storage, treatment, distribution, collection, facilities and water/sewer infrastructure projects
- ✓ In-house ability to provide technical and specialized services including constructability reviews, labor compliance and certified payroll monitoring, document control, office engineering, scheduling, cost estimating and grant funding assistance, etc.

Legal Name and Address of the Company	Wallace & Associates Consulting, Inc. Corporate Office Location: 1655 East 6th Street, Suite A-4a, Corona, CA 92879 Mailing Address: PO Box 909, Murrieta, CA 92564
Legal Form of Company (Partnership, Corporation)	Sub Chapter S-Corporation (Wyoming)
Name, Title, Address and Telephone Number of the Proposed Representative to Contact Concerning the Proposal Submittal	Carl Wallace, PE, President Corporate Office Location: 1655 East 6th Street, Suite A-4a, Corona, CA 92879 Mailing Address: PO Box 909, Murrieta, CA 92564 Phone: (951) 966-7774
California Business License Number	C3254119

Carl Wallace, PE, Bryan Tuschhoff, CMIT, PMP, QSP and Heidi Nesper are all authorized to bind the firm into contracts. Carl Wallace, PE, and Cathy Wallace are able to enter into contract negotiations on behalf of Wallace & Associates Consulting, Inc.

Company Commitment

W&A understands that the City of Garden Grove is requesting a company commitment of personnel consistency for each engagement for the duration of the contract (i.e. The City does not want a different inspector every month for a three-month engagement). We understand that the City requires responsible, qualified, available inspection staff familiar with typical Capital Improvement Projects and City operations to support the CIP program. The inspectors we have identified in the following section for Garden Grove's needs have strong CIP experience and expertise. Our inspectors identified in the proposal all have the expertise to accomplish street, storm drain, water, sewer and traffic signal improvements. When requested, we would set up interviews and make sure the City is satisfied with our selection of staff for the intended project. Once an assignment is made, W&A commits that we will maintain that same staff to consistently serve the project and the City of Garden Grove. In the case of an unplanned event, e.g. sudden illness, we can quickly implement a satisfactory solution.



Project Team

W&A only provides Project Managers, Construction Managers and Inspectors that have over 20 years each of experience completing public agency CIP projects in Southern California. Our Project Managers are licensed Professional Engineers with experience in all aspects of design and construction. Our Construction Managers have either worked as a contractor or have a professional engineer license, or both and have earned specialized certifications including Certified Construction Manager. Our inspection staff has diverse and relevant certifications to help with every aspect of projects including ACIA, QSP and ICC concrete, asphalt and steel certifications. Our W&A team members have previously worked for years within local City Public Works Departments, Water Departments, Utility Agencies, engineering consulting firms and even as contractors.

In staffing our team, we have identified personnel within the firm who have proven track records in successfully delivering these services for the City of Garden Grove. We have the flexibility, capacity and experience and specific expertise to provide the right staff for any of the City's specific project needs.

Project Manager/Resource Manager, Carl Wallace, PE – Carl has spent his 28-year career delivering construction management solutions throughout Southern California and the Western United States including Utah, Nevada, Texas and California. Since starting the firm ten years ago, he has focused on providing exceptional value and service to clients like the City on public works, water, street, and related capital projects for cities and other public agencies. He will work closely with the City to provide the right level of staff that matches the City's project needs. Carl actively oversees W&A's on-call contracts for project and construction management for cities including Garden Grove, Corona, Rialto, Murrieta, Chino, Irvine, Fullerton, Lake Forest, Huntington Beach, La Quinta, Temecula, Santa Monica, Culver City and Pomona and for agencies such as Coachella Valley Water District, Inland Empire Municipal Water District, Indio Water Authority, Rancho California Water District, Ontario Municipal Utilities Company, California American Water Company, Valley Center Municipal Water District, Elsinore Valley Municipal Water District and Inland Empire Utilities Agency.

Carl has successfully managed these types of on-call service contracts for clients over the past 18 years. These services have included delivering staff on a 24-hour notice for construction management and inspection services. He has developed a tracking system for staff assignment that is updated on a weekly basis to know who may be available and has capacity to handle a new assignment. We track our staff by where they reside and their specific experience. The best way to evaluate Carl's ability and Wallace & Associates' track record is to reach out to our existing client references. We encourage you to communicate with these clients.

Senior Construction Manager/Senior Construction Inspector, Bryan Tuschhoff, CMIT, QSP, PMP – Bryan brings 30 years of experience in project management, construction management and construction inspection. He has worked on a diverse group of projects, which have included underground installation of wet and dry utilities including electrical, sewer, water, storm drain, oil and jet fuel pipelines, all types of asphalt paving operations, structural and architectural concrete placement. His experience also extends to mass grading earthwork operations, pile driving, caisson column installation, environmental remediation and mitigation, surface water/storm water management, SWPPP compliance, structural and architectural steel erection, and SCADA system installation. Bryan has worked on new construction projects as well as rehabilitation and improvement projects. He would assist Carl in staffing projects and even filling in if necessary.

Bryan Tuschhoff, CMIT, QSP, PMP – Recent References on Similar Assignments

CITY OF GARDEN GROVE

Mr. Mark Uphus, PE, Senior Civil Engineer
11222 Acacia Street Garden Grove, CA 92840
Phone: (714) 741-5191
Email: marku@ci.garden-grove.ca.us

CITY OF MURRIETA

Mr. Bob Moehling, PE, City Engineer
1 Town Square Murrieta, CA 92562
Phone: (951) 453-3181
Email: bmoehling@murrietaca.gov

CITY OF TEMECULA

Mr. Ron Moreno, PE, PLS, Senior Civil Engineer
41000 Main Street Temecula, CA 92590
Phone: (951) 506-5165
Email: ron.moreno@temeculaca.gov



Section 4 – Staffing

Senior Construction Manager/Senior Construction Inspector, Paul Allison, CMIT – Paul is a certified inspector with 19 years of experience on large scale capital improvement projects, primarily water related. He has served as a resident engineer and inspector on all aspects of construction from project startup, to project closeout and finalization. He works diligently to detect and resolve issues before they affect the construction schedule or budget.

Paul Allison, CMIT – Recent References on Similar Assignments

CITY OF GARDEN GROVE

Mr. Nick Hsieh, PE, Associate Engineer
11222 Acacia Street Garden Grove, CA 92840
Phone: (714) 741-5190
Email: nhsieh@ggcity.org

EL TORO WATER DISTRICT

Mr. Bobby Young, PE, District Engineer
24251 Los Alisos Blvd. Lake Forest, CA 92630
Phone: (949) 837-7050
Email: byoung@etwd.com

CITY OF HUNTINGTON BEACH

Mr. Joe Dale, City Construction Manager
2000 Main Street Huntington Beach, California 92648
Phone: (714) 536-5915
Email: jdale@surfcity-hb.org

Senior Construction Inspector, Pat Shen, QSP – Pat has over 20 years of construction related experience that includes public work CIP projects and land developments projects. He has a degree in architecture and experience in managing the construction of public and private facilities prior to his focus on public works infrastructure. Pat has recent experience involving street and road rehabilitation, paving and slurry, traffic signals, street lights, parks, reservoirs, water and sewer pipelines, storm drain. He has recently inspected several roadway rehabilitation projects for City of Garden Grove.

Pat Shen, QSP – Recent References on Similar Assignments

CITY OF GARDEN GROVE

Mr. Mark Uphus, PE, Senior Civil Engineer
11222 Acacia Street Garden Grove, CA 92840
Phone: (714) 741-5191
Email: marku@ci.garden-grove.ca.us

CITY OF WEST HOLLYWOOD

Ms. Mila Sologub, PE, Assistant City Engineer
8300 Santa Monica Boulevard West Hollywood, CA 90069
Phone: (323) 356-8399
Email: msologub@weho.org

CITY OF TORRANCE

Mr. Steve Finton, PE, Engineering Manager
3031 Torrance Blvd Torrance, CA 90503
Phone: (310) 781-6900
Email: SFinton@TorranceCA.gov

Senior Construction Inspector, Cesar Ramirez, EE – Cesar is a Civil Engineering professional with over 25 years of construction and engineering project management expertise as well as budgeting, planning, inspection and staff management experience. He has worked extensively throughout Southern California on several city CIP projects that include street/road rehabilitation and traffic signal upgrades. Cesar understands different funding requirements as well as local, state and federal regulations. He has recently inspected several roadway rehabilitation projects for City of Garden Grove.

Cesar Ramirez, EE – Recent References on Similar Assignments

CITY OF CORONA

Mr. Jeff Nelson, Inspection Superintendent
400 S. Vicentia Avenue Corona, CA 92882
Phone: (951) 545-0012
Email: Jeff.Nelson@CoronaCA.gov

GOLDEN STATE WATER

Ms. Beth McDonough, PE, CIP Director
1600 W Redondo Beach Blvd #101, Gardena, CA 90247
Phone: (562) 907-9200
Email: beth.mcdonough@gswater.com

CITY OF DOWNEY

Mr. Desi Gutierrez, PE, Principal Engineer
11111 Brookshire Avenue Downey, CA 90241
Phone: (949) 724-7653
Email: dgutierr@downeyca.org



Section 4 – Staffing

Senior Construction Inspector, David Valenzuela, EIT – David is an experienced field engineer and construction inspector with over 19 years of construction and engineering experience. He worked as a construction laborer and foreman prior to obtaining his engineering degree at Cal Poly Pomona and his Engineer-in-Training Certificate. David has since worked for Construction Management firms and Design firms where he has served on a variety projects that include City and Public Agency facilities, street improvements, site infrastructure, sewer, water, treatment, storage and drainage and pipelines. His experience includes project management, project engineering, GIS implementation, construction administration, cost controls, SWPPP inspection and field inspection.

David Valenzuela, EIT – Recent References on Similar Assignments

CITY OF GARDEN GROVE

Mr. Mark Uphus, PE, Senior Civil Engineer
11222 Acacia Street Garden Grove, CA 92840
Phone: (714) 741-5191
Email: marku@ci.garden-grove.ca.us

CITY OF TEMECULA

Mr. Ron Moreno, PE, PLS, Senior Civil Engineer
41000 Main Street Temecula, CA 92590
Phone: (951) 506-5165
Email: ron.moreno@temeculaca.gov

CITY OF BEAUMONT

Mr. Robert Vestal, PE, Engineer
550 E. 6th Street Beaumont, CA 92223
Phone: (951) 769-8522
Email: rvestal@beaumontca.gov

Why the City of Garden Grove Should Select Wallace & Associates

- ✓ W&A has current experience with the City of Garden Grove.
- ✓ W&A has extensive on-call contract experience and expertise; two-thirds of our work consists of on-call contracts.
- ✓ W&A specializes in PM, CM, Inspection and Labor Compliance Services. We do not provide design work to avoid any possible appearance of conflict of interest.
- ✓ W&A has excellent track record in staffing for projects in less than 48 hours notice.
- ✓ W&A has a strong reputation for delivering projects on time and within budget.
- ✓ W&A has more resources in Southern California than almost all of our competitors in the field of Construction Management and Inspection services (including many of the larger national firms).
- ✓ W&A's business model was created to serve as a Lower Cost/High Quality provider. We are proud of our reputation in this area.



Section 5 – Experience and References



Similar Project Experience

Clients choose W&A for our responsiveness, our experience in a variety of CIP and Development projects and our staff's ability to help ensure the success of every project.

On-Call Construction Inspection Services

City of Garden Grove, CA (2016 – Present)

Related Elements

Roadway improvements, storm drain improvements, streetscape improvements

W&A Key Staff

Contract Manager: Carl Wallace, PE

Staffing Manager: Bryan Tuschhoff, CMIT, PMP, QSP

Inspectors: Pat Shen, QSP, Paul Allison, CMIT, Cesar Ramirez, EE, Frank Moreno

Client Contact

Mark Uphus, PE

Senior Civil Engineer

(714) 741-5191

marku@ci.garden-grove.ca.us

W&A is providing On-Call Construction Inspection services for CIP projects. The contract includes street and roadway rehabilitation, facility, parks and utility relocation projects. Street rehabilitation projects are funded through federal, state and local sources. Inspection duties include DIR's, photo records, coordination with project manager, traffic control, Weekly Statement of Working Days, RFI's, progress payments and quantity takeoffs. The following projects are or were supported by W&A staff.

Cannery-Imperial Interim Storm Drain Improvements from Gilbert Street and Imperial Avenue to Garden Grove Boulevard and Cannery Street (\$3M) – Installation of storm drains from Gilbert Street and Imperial Avenue to Cannery Street and Garden Grove Boulevard. This project is primarily comprised of constructing approximately 4,000' of storm drain and consists of: furnishing and installing 60", 48" and 36" diameter polypropylene pipe storm drain construction; sheeting, bracing and extensive shoring; dewatering; traffic control; furnishing/installing trench backfill with ¾" rock; constructing catch basins and local depressions; constructing manholes and junction structures; cross connections; removing existing and constructing approximately 480'

of sewer line; constructing new sewer manholes with Sancon 100 lining; removing and reconstructing 4" sewer house laterals; removing existing and constructing new 280' of 12" PVC water line; water services replacement; cold mill existing AC approximately 41,000 sf to a depth of 2" deep; furnishing and installing aggregate base and asphalt paving; adjustment of utility covers to finish grade; reestablishment of centerline ties and survey monuments. To facilitate construction work, traffic on Gilbert Street, Imperial Avenue, Magnolia Street, Cannery Street and Garden Grove Boulevard will be reduced to one lane. The storm drain improvement will reduce the risk of flooding and road closures on Magnolia Street, from Central Avenue to Garden Grove Boulevard. The project requires extensive traffic control and public outreach. The contractor uses "slide rail" shoring for the deep section (12 – 16') of the trench excavations and uses slurry backfill for approximately 1000' of backfill. W&A provides full time project inspection on this project and duties include: daily reports and photos, maintaining photo log, verification of quantities for monthly payments, public outreach, installation verification, track personnel, equipment and working hours, inspect and monitor traffic control measures, inspect and monitor SWPPP installations.

Euclid Street/Garden Grove Boulevard/Woodbury Avenue Rehabilitations and Palmwood Sidewalks (\$3.8M) – Streets under construction were: Euclid Street, from Chapman Avenue to Katella Avenue; Garden Grove Boulevard, from Brookhurst Street to Nelson Street; and Woodbury Road, west of Harbor Boulevard. To facilitate construction work, traffic on Euclid Street and Garden Grove Boulevard was reduced to one lane. The improvements consisted of the removal and construction of uplifted median curbs, gutter, sidewalk, and wheelchair ramps; traffic striping; raised pavement markers; and asphalt concrete base and surface. The work resulted in an improved roadway surface and minimize maintenance efforts. On Palmwood Drive, from Patricia Drive to Vegas Way, improvements consisted of constructing a 4' wide sidewalk on both sides of the street. The project consisted of the following:

- ✓ Euclid Street – Full depth reclamation of approximately 319,400 sf of paving from Patricia Drive to Katella Avenue Treated nine inches of road base with 1% cement, allowed to cure and performed micro-cracking. Placed approximately 9,500 tons of Fiber Reinforced Asphalt Concrete base course and approximately 3,775 tons of Fiber Reinforced Asphalt Rubber Hot Mix Cap. Also removed and replaced various portions of the center median with stamped concrete to match existing and removed and replaced various portions of curb per City standards. Installed surface mounted truncated domes. Installed new landscape irrigation, mow strip, and replaced plants at various locations in the median from Chapman Street to Katella Avenue
- ✓ Garden Grove Boulevard – Grind and capped all lanes from Nelson Street to Brookhurst Street of approximately 222,000 sf of existing paving. Placed approximately 1,050 tons of Fiber Reinforced Asphalt Concrete base course. Placed approximately 3,350 tons of Fiber Reinforced Asphalt Rubber Hot Mix cap. This project also required removal and replacement of access ramps, sidewalk, gutter, and truncated domes in various locations along Garden Grove Boulevard.
- ✓ Woodbury Avenue – Grind and removed approximately 31,000 sf of existing asphalt from the Woodbury Avenue and Harbor Boulevard. intersection to the end of Woodbury Avenue Placed approximately 800 tons of Fiber Reinforced Asphalt Concrete base course and approximately 400 tons of Fiber Reinforced Asphalt Rubber Hot Mix. Also, removed and replaced 100' of concrete curb and gutter.
- ✓ Palmwood Drive – Removed and replaced approximately 3,700 sf of concrete sidewalk, removed and replaced four existing access ramps, and modified existing block wall.



Section 5 – Experience and References

La Bonita Street Storm Drain Improvement Project (\$1.1M) – Construction inspection along La Bonita Street and Shirley Street, from Westminster Avenue to Anabel Avenue. The improvements included construction of storm drain pipes, catch basins, and removal and replacement of concrete cross gutters.

Chapman Avenue Pavement Reconstruction (\$2.4M) – Construction inspection during a reconstruction project through a major arterial and several cross streets. Duties include preconstruction activities, permits, administering the contract, inspecting the work of various contractors, documenting the work via daily reports and digital photography, ensuring quality control, verifying quantities, participating in weekly progress meetings, processing control documents such as RFI's, submittals, progress payments, negotiating and managing change orders, and monitoring schedules.



Euclid Street/Garden Grove Blvd/Woodbury Avenue Rehabilitations and Palmwood Sidewalk, City of Garden Grove

Chapman Avenue Residential Pavement Reconstruction (\$1.8M) – Construction inspection on a total of 10,130' on arterial streets. Improvements include cold planed, overlay, grading, ADA improvements, curb and gutters.

Westminster and Buaro Street Rehabilitation (\$2M) – Improvements at several streets and intersection using the Full-Depth Reclamation (FDR) process which rebuilds worn out streets by recycling the existing roadway. The old asphalt and base materials were pulverized, mixed with cement and water, and compacted to produce a stronger, more durable base. Work also involved the removal and construction of uplifted median curbs and sidewalk, bus pads, traffic striping and raised pavement markers.

Magnolia Street Rehabilitation (\$3.1M) – Repairs and resurfacing of asphalt pavement and various concrete items on this heavy traffic street. Street was reduced to one lane in each direction and all street parking was eliminated during construction.

Knott Street Rehabilitation (\$2.2M) – Improvements consisted of FDR reclamation and cement treatment, full depth asphalt replacement, replacement of curb and gutter, bus pad and handicap ramps, installation of video detection system, traffic signal detector loops, and installation of irrigation and landscaping.

Valley View Street Improvements (\$250K) – Street improvements that included full depth asphalt replacement and cement treatment, replacement of curb and gutter, handicap ramps, and installation of irrigation and landscaping.

Ranchero Alley and Lamson Drainage (\$400K) – Installation of new 24" and 36" RCP storm drain at multiple locations that included demolition and excavation, pouring collars at ends of storm drains and asphalt overlay.

Harbor Boulevard Traffic Signal (\$500K) – Major arterial road traffic signal improvement project that included the installation of communication conduits, fiber optic cables, traffic signal cabinet and controller upgrades, and ADA-compliant pedestrian signals.

City Council Chambers Renovation (\$550K) – Renovation of City Council Chambers to upgrade the audio and sound system, new casework for council area, new walls, new flooring, lighting and painting.

Police Department Headquarters Renovation (\$800K) – Renovation to provide new flooring tile, ceiling, cabinet work, paint, lighting, seismic structural upgrade, bullet proof glass partition, upgrade to security cameras and communication systems, doors and hardware.

As-Needed Construction Management and Inspection

Irvine, CA (2012 – Present)

Related Elements

Construction Inspection for local City projects

W&A Key Staff

Contract Manager: Carl Wallace, PE
Inspectors: Keith Barnett, Paul Kraatz

Client Contact

Alex Salazar, PE
CIP Administrator
(949) 724-6442
asalazar@cityofirvine.org

W&A is providing Construction Management and Inspection services for the City. The project work includes CIP, right-of-way and grading projects. The contract includes a variety of project types including facilities, roadways, parks, annual paving, grading, street and roadway construction, and utility relocations. Recently completed and/or current projects include:

Irvine Boulevard Improvements (\$12M) – Resident inspection on a road widening project that included traffic signals, storm drain and landscape improvements. Oversaw installation of with 72", 30" 24" & 18" storm drains, 17 drainage structures, bio-filters, domestic water 8" & 12" PVC pipe, 8" PVC recycled water, sidewalk and five signalized intersections.

2013/14/15/16/18/19 Annual Paving and Slurry Program

(\$5M/\$9M/\$6M/\$6M/\$10M/\$7.5M) – Annual roadway rehabilitation and slurry

program. Duties include inspection and management of three contracts each year for concrete removals, roadway repaving and slurry for this annual City-wide program.



Section 5 – Experience and References

City Fueling Station Improvements (\$750K) – Resident inspection for the two-tank fueling station at the main City Hall for use in fueling city fleet vehicles. Project included removal of old tanks and installation of two new tanks to house regular and diesel fuel, a new island and pumping stations. Project features include relocating other utilities, landscaping and irrigation improvements. Duties included preparation of daily reports, photographic records, construction contract administration, contract compliance, review of submittals, quantity take offs, coordination with City Project Manager and inspection supervisor. The project success was very important since the project was at City Hall and highly visible to City staff.

Great Park Development (\$300M) – Resident inspection services of work that includes repairing older channels and constructing new drainage and channel facilities in support of the massive development project for the Great Park.

Five Points Development (\$150M) – Project work includes streets, roadway, landscaping, medians, traffic signals, drainage structures, slope protection, storm drains, bridges, retaining walls, rip rap, bridge abutments and foundations. Planting and restoration is also part of the project work. Inspection duties include compliance with environmental permit, preparing daily reports, taking photographic records, coordination with contractor and Project Manager, RFI's and progress payments quantity takeoffs.

On-Call Construction Management and Inspection Services

City of Huntington Beach, CA (Oct 2018 – Present)

Related Elements

Full time CM and inspection services

W&A Key Staff

Contract Manager: Carl Wallace, PE

Construction Manager: Paul Allison, CMIT

Construction Inspector: Thomas Hall

Labor Compliance: Heidi Nesper, Christine Gallis

Labor Compliance Auditor: Kim Brown

Integration and Electrical Inspection:

Rockwell Construction Services

Client Contact

Joe Dale

City Construction Manager

(714) 536-5915

jdale@surfcity-hb.org

W&A is providing Construction Management, Inspection, Administration and Labor Compliance services on a task order basis for State-Funded, Federally-funded and non-State/Federally-funded capital improvement projects. This initial three-year contract includes various public works infrastructure projects such as traffic signals, pump stations, lift stations, curb, gutter, sidewalks, pipelines, structures, road rehabilitation and bridge retrofits. Specific projects include:

Edgewater Sewer Lift Station Project (\$3.5M) – W&A is providing inspection services on this project which consists of the abandonment and demolition of an existing sewer lift station, and the installation of a new 1000 gpm submersible sewage lift station and force main. This sewer lift station is due for replacement due to its size and marine exposure. The project also includes the construction of new gravity sewers, storm drain, and watermain, as well as curb, gutter, sidewalk, AC paving and other appurtenant work.

Traffic Signal Improvements at the intersections of Main St at 17th St/Utica Ave, and Bolsa Chica St at Pearce Dr (\$540K) – This project consists primarily of modifying one traffic signal to add protected left turn phasing and constructing ADA compliant ramps, and the installation of a new traffic signal.

Various Signalized Intersections (\$ Varies) – W&A is providing Labor Compliance services for numerous traffic signal improvement projects. These projects include the installation of protected left turn phasing, traffic signal poles and interconnect conduit and fiber optic cable.

2019 Pavement Rehabilitation (\$2M) – Algonquin Street (Warner Avenue – Heil Avenue) and Delaware Streets (Main Street – Ellis Avenue) will be paved with 4.5" of new pavement after removal of the failed top 2" of pavement. Edinger Avenue (Bolsa Chica Street – Graham Street) will be paved with 5.5" of new pavement after the sub-base is pulverized and cement treated. All three streets will have a wearing surface course of fiber-reinforced rubberized asphalt concrete hot mix (ARHM). Manholes, monitoring wells, survey monuments, and water valve assemblies will be adjusted to grade and traffic loops and striping will be replaced. Improvements also include limited replacement of concrete curb, gutter, sidewalk, and access ramps where needed. The three street segments were last rehabilitated in the very early 1990's. The project is using a sustainable paving material, which utilizes rubberized asphalt concrete (RAC) which contains crumb rubber derived from 100% California waste tire rubber. A 2" layer of RAC uses over 2,000 waste tires per lane mile. The project will divert more than 9,300 waste tires that would otherwise end up in a landfill. Including this project, the use of RAC in the rehabilitation of the City's arterial streets has resulted in the diversion of over 347,000 waste tires.

Ocean View Estates (OVE) Parking Lot Expansion (\$750K) – OVE is a City-owned mobile home park comprised of 44 mobile home spaces located at 7051 Ellis Avenue. The residents have requested the City to provide additional on-site parking along the easternmost drive aisle. The project will provide an additional 14 on-site parking spaces including minor grading work, asphalt concrete pavement, signage to permit overnight parking for park residents and re-stripe the existing handicapped stall to comply with the current code requirements. Due to the existing tree root systems adjacent to the new stalls, six eucalyptus trees will be removed and replaced with 12 24" box trees.

Residential Overlay of Maintenance Zone 6 (\$1.5M) – As part of the Pavement Management Plan, a residential network was created dividing the City into 12 maintenance zones to allow the City to better coordinate maintenance activities. This project will rehabilitate 131 street segments within Zone 6, which is located in the Central Area of the City. The street segments to be overlaid will first be crack sealed. Localized 2" pavement repairs will be performed where needed. Edge grinding will be performed along all concrete curbs, gutters,



Section 5 – Experience and References



and cross gutters using a milling machine before applying a final 1.5" asphalt overlay. Streets suffering from reflective cracking will have a geotextile fabric placed between the existing surface and the new 1.5" asphalt overlay to increase structural stability. The scope of work includes replacement of curb ramps, cold milling, installation of pavement fabric where needed, an inch and a half (1-1/2") asphalt concrete overlay, localized pavement repairs, adjustment of existing utility covers and traffic striping.

On-Call Project Management, Construction Management and Inspection City of Corona, CA (May 2011 – Present)

Related Elements

Variety of CIP projects

W&A Key Staff

Contract Manager: Carl Wallace, PE

PM/CM: Bryan Tuschhoff, CMIT, PMP,

QSP, Peter Ramey, PE, John Reidinger,

CCM, Jeff Schippers, CCM, Dennis

Phinney, PE, Ken Cope,

Cost Estimating: Peter Ramey, PE

Office Engineering: Heidi Nesper, Rachael

Highley, Kim Brown, Christine Gallis

Senior Construction Inspectors: David

Zamiski, Tom Hall, Cooly Smith, Steve

Platzer, Phil Fikes, Tom Mitchell, Pete

Ayala, Gordon Lewis, Pat Shen, QSP, Frank

Moreno, Rick Wiggins, Bob Peters, David

Babcock, Cesar Ramirez, EE, Jeremy

Vander Veen

Contract Admin: Heidi Nesper, Rachael

Highley, Christine Gallis, Bill Eckman

Certified Payroll Auditor: Kim Brown

Client Contact

Vernon Weisman

District Engineer

(951) 739-4912

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W&A is providing Project Management, Construction Management, Inspection and Labor Compliance services for development and CIP projects throughout the City. Project elements involve water and sewer pipelines, lift stations, reservoirs, streets, roadways, street lights, facilities, parks, land development and utility relocations. Relevant projects include:

Main Street Metro Development (\$150M) – This three-year project involved the demolition of an existing strip mall and small adjacent buildings and the development of a mixed-use complex that spanned over 25 acres and included the construction of a five-story building. Extensive site work was completed and included the relocation of an existing city sewer trunk line, new gas lines, removal of aging asbestos waterline and the construction of lift stations. Project challenges including maintaining service while lines were being moved and soil stability issues. In addition, unmarked and identified utilities, bypass lines and manholes were discovered and caused disruption to the construction schedule. W&A inspection team was on-site daily during the course of construction and used their experience to help mitigate and resolve project issues. The project's success was attributed to the team's ability to work together closely and communicate effectively to get the job done.

Foothill Parkway Widening Tamarisk Lane to Teddy Bear Lane (\$1.75M) – W&A staff provided project management and resident inspection services for the landscaping and irrigation portion on Foothill Parkway. The scope of services included all new landscaping and irrigation system. This project included reconstruction of a 3/4 mile section of road from three lanes to four, including an added landscape street median. This widening project removed a bottle neck section of Foothill Parkway, adding an additional west bound lane to increase traffic flow in the area. Inspection duties included compliance with environmental permit, preparing daily reports, taking photographic records, coordination with the contractor and City Project Manager, RFI's and progress payments quantity takeoffs.

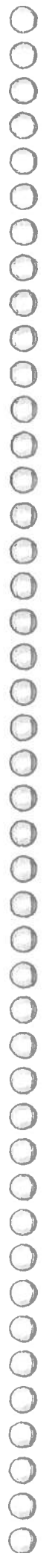
Temescal Canyon Road Improvement Projects: Temescal/Glen Ivy Waterline Relocation (\$150K) – Inspection during the relocation of approximately 125' of the 18" Glen Ivy Waterline. Relocation is needed due to the Riverside County Transportation Department project to construct a reinforced concrete storm water culvert within Temescal Canyon Road as part of the project to widen Temescal Canyon Road from a rural two-lane road to a four-lane street.

CIPP Sewer on Smith Street (\$200K) – Construction Inspection for this project which included the CIPP rehabilitation of 2,000' of 12" to 30" sewer lines in and around Smith Street. Project was completed on time and within budget.

Masters Drive Recycled Waterline and Repaving Project (\$2.5M) – This 2.4-mile recycled waterline project was constructed through a high-volume section of four-lane arterial streets. Pipe was all Ductile Iron Pipe (DIP) with restrained joints and ranges from 8" to 12". The pipe was double bagged as the location did not have any hot soil that would require a cathodic protection system. The project included grind and overlay repaving of major arterials. Inspector's duties included daily reports, coordination for tie-ins and shut downs, and review of traffic control for compliance with specific traffic control plans. Inspector coordinated staking, potholing, materials testing and the oversight of the testing program.

Butterfield Park Recycled Waterline (\$3M) – This half-mile directional drilled 24" HDPE and 20" DIP recycled waterline was constructed through environmentally sensitive areas adjacent to the Corona Municipal Airport. The project was fast tracked and work was performed seven-days per week with continuous activities during two-12 hour shifts daily. Inspectors' duties included daily reports, coordination with City Project Manager and with airport operations staff for construction activities and schedule coordination. Inspectors also coordinated with the environmental consultant and paleontologist.

Vista Monterey Recycled Waterline (\$500K) – Construction Inspection for a recycled waterline project that included shoring, placement and backfill of 3,000' of 8" and 12" DIP to provide reclaimed water to a new development. Work also included installing seven new fire hydrants, testing stations, paving and traffic control. Work was being completed during the day on a busy street with several intersections



Section 5 – Experience and References

in a residential area. Project included lane closures, traffic control and flagging operations. Safety of both the traveling public and construction crews were imperative to the success of the project.

Cerritos Waterline Replacement (\$1.5M) – Provided full and part time inspection services for specific water and sewer projects throughout the City. The project features included new 24" DIP through the entire street and compaction and paving over street. A structural double mat pipe slab was constructed over a section of the pipe at the intersection. Provided coordination for chlorination of pipes and tie-ins. Inspection duties included daily reports of work, manpower and equipment including quantities and photographic records.

R-3 Reservoir (\$4M) – The project involved the removal of an aging water storage tank, electrical and control facilities and the construction a new DYK water storage tank that stores 2.5MG of water. The new R-3 storage tank facility is a pre-stressed concrete storage tank buried two-thirds into the ground. Inspector duties included monitoring and reporting during the construction of new water piping, drain lines and valves. The project included the installation of flow meters to the new storage tank, as well as a connection to existing utilities on adjacent streets, new electrical service, instrumentation and controls allowing remote monitoring and operation of the tank. Also performed public outreach support for the project; our team passed out flyers to the surrounding neighborhood and answered or addressed any resident questions or concerns.

Arlington Desalter Connection (\$750K) – W&A provided construction inspection during excavation and tie-ins to existing supply lines to form a mixing station with water from the desalter plant and the reservoir. Improvements included new masonry block house, slab on grade, electric and control system installation, replanting and irrigation improvements, sidewalk, driveway, paving, fencing, gates and street improvements. Inspector's duties included daily reports, coordination with operations staff for tie-ins and shut downs, review of traffic control for compliance with the WATCH manual. Inspector also coordinated with Maintenance and Operations Departments within DWP, reviewed payment quantities, resolved field issues with contractor and DWP staff.



Cold milling on Ontario Avenue, City of Ontario

Various Traffic Signal Improvement Projects

City of Culver City, CA (May 2019 – Present)

Related Elements

Traffic signal, street lighting, electrical

W&A Key Staff

Contract Manager: Carl Wallace, PE

Inspectors: Ken Burris, Cesar Ramirez, EE

Client Contact

Javier De La Cruz, PE

Associate Engineer

(310) 253-5606

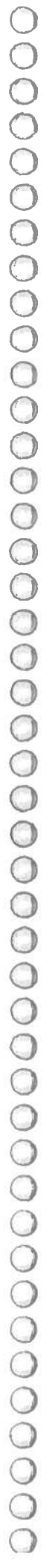
Javier.delacruz@culvercity.org

W&A is providing Resident Construction Inspection for \$630K, 90 working day Traffic Signal improvements for Culver City. Projects include Traffic Signal Re-Wiring Project, PZ-429, which replaces deteriorated single conductor wires with multiconductor cables to ease maintenance and troubleshooting as well as improve the reliability of traffic signals at the following three intersections:

1. Sepulveda Boulevard and Centinela Avenue
2. Washington Boulevard/Washington Place/Zanja Street/Wade Street
3. Slauson Avenue and Hannum Avenue

This project also includes the replacement of six knocked-down streetlight poles on Slauson Avenue between Buckingham Avenue and Bristol Parkway and on Sepulveda Boulevard between Bankfield Avenue and Green Valley Circle. There is also a new traffic signal at the intersection of Washington Boulevard and Cattaraugus Avenue, PL-003,

which includes installation of new traffic signal at the intersection of Washington Boulevard and Cattaraugus Avenue to provide signal-controlled access to and from Cattaraugus Avenue (west) at Washington Boulevard. Last, a Left Turn Modification at Sepulveda Boulevard/Jefferson Boulevard/Playa Street, PL- 009, includes traffic signal modification for a proposed new third left turn/through lane from Jefferson Boulevard eastbound onto Sepulveda Boulevard southbound as a traffic mitigation measure.



Section 5 – Experience and References

Bus Signal Priority System WLAN Communications Equipment Installation City of Culver City, CA (October 2019 – Present)

Related Elements
Traffic signal, electrical
W&A Key Staff
Contract Manager: Carl Wallace, PE
Construction Manager: Barry Safa, PE
Inspector: Cesar Ramirez, EE
Client Contact
Diana Chang
Project Manager
(310) 253-6566
Diana.Chang@culvercity.org

W&A is providing Construction Management and Inspection Services for this \$300K installation contract. This project consists of traffic signals improvements at forty-eight (48) intersections, including the installation of WLAN system. The general items of work include installation of City-furnished WLAN bridge radios, two-way 2.4GHz splitters, mounting brackets and panel antennas, as well as furnishing and installing radio mounting poles, power connectors, and Cat5 connectors. Out of 48 total intersections, thirteen (13) intersections also include conduits by directional boring or open trenching/trenching restoration, new pull boxes, intercept existing pull boxes, conduit sweeps, and restore PCC sidewalk from score line/joint to score line/joint or landscape restoration, and other appurtenant work items not mentioned that are required by the plans and specifications to complete the WLAN system installation, as well as coordination and maintenance.

On-Call Inspection Services City of Fullerton, CA (July 2018 – Present)

Related Elements
Roadway improvements, storm drain improvements, utilities, streetscape improvements
W&A Key Staff
Contract Manager: Carl Wallace, PE
Construction Manager: Bryan Tuschhoff, CMIT, PMP, QSP
Construction Inspectors: Gary McCredie, CMIT, Bob Peters
Special Inspections: Jin Chong, ICC, AWS
Client Contact
David Grantham, PE
Project Manager
(714) 738-6853
DGrantham@cityoffullerton.com

W&A provides On-Call Construction Inspection services for a variety of land development and capital improvement projects within the City. Projects include street rehabilitation, traffic signal and intersection, water and sewer improvements, storm drain facilities, landscaping and irrigation. Duties include providing full-time construction inspection, daily inspection reports, and coordination with City public works and utilities departments, City Project Manager and project design consultant. Other duties include calculating bid item quantities for progress payments, attending preconstruction meetings and assisting with project closeout, as well as coordination for materials testing with third party company and with private utility companies. Specific projects include:

Laguna Booster Pump Station Upgrades (\$700K) – Inspection of the construction of the Laguna Booster Pump Station Upgrades includes new site paving, one domestic pump, one high flow pump, hydropneumatic tank, electrical service, Motor Control Center, and associated piping, valves, fittings, appurtenances and all related work.

Harbor Boulevard Reconstruction (\$853K) – Includes ARRA funds. Removal and replacement of deteriorated asphalt concrete pavement, reconstruction of curb, gutter,

sidewalk, driveways, storm drain catch basins to comply with ADA requirements. Traffic striping and traffic signal interconnect conduit and wiring.

Valencia Drive Infrastructure Improvements (\$1.5M) – Improvements from Gilbert Street to Brookhurst Road. Work involves traffic control, water shut downs and tie-ins, grinding and repaving, and infrastructure improvements.

Chapman Avenue Rehabilitation (\$1.5M) – Street and sidewalk improvements that include pot holing, grading, reconstruction and traffic control.

4300 North Harbor Boulevard (\$2.5M) – On and off-site improvements for a new development. Work includes grading, paving, ADA sidewalk and ramps, curbs, gutters and driveways

Transportation Center Pedestrian Overpass Elevator (\$2.7M) – Improvements to an existing train station. Project included two new traction elevators and ADA modifications to the existing restrooms and vehicle parking lot.

Residential Slurry Seal (\$729K) – Various street improvements that included the application of a thin layer of emulsion/aggregate slurry onto the existing asphalt pavement. Project also included the rehabilitation of five residential streets. Work consisted of grinding and overlay of deteriorated pavement, installation of access ramps to comply with ADA regulations and sidewalk replacement.



Section 5 – Experience and References

As-Needed Project Management, Construction Management and Inspection City of Rialto, CA (Jul 2015 – Present)

Related Elements

Full time CM and Inspection services

W&A Key Staff

Contract Manager: Carl Wallace, PE

PM: Bryan Tuschhoff, QSP, PMP, CMIT,
John Reidinger, CCM

Construction Manager: John Reidinger,
CCM, Pete Ayala, CMIT, Gary McCredie,
CMIT

Inspectors: Pete Ayala, CMIT, Eric Maher,
QSP, David Zamiski, Tom Mitchell, Tom
Hall, Rick Wiggins

Special Inspections: Jin Chong, ICC, AWS

Client Contact

Hector Gonzales, PE

Principal Civil Engineer

(909) 421-4986

hgonzalez@rialto.ca.gov

W&A assists the City by providing Project Management, Construction Management and Inspection services on CIP projects, industrial and commercial developments. The construction of these developments includes mass grading and installation of sewer, water and storm drains. Inspectors also prepare daily reports with photographs, attend meetings and work with the City and contractors to remediate any concerns or issues. Specific inspection projects include:

Fire Station 205 Phase 1 (\$5.8M) – Construction Management, Inspection and Labor Compliance services during overall site grading and drainage improvements, an apparatus building, temporary staff living quarters, parking and underground utilities for proposed and future facilities. Services also include managing the materials testing firm.

2018/19 Citywide Roof Repairs (\$500K) – W&A provides the City with as-needed Construction Management and Inspection services for the 2018/19 Citywide Roof Repair projects to prevent emergency repairs and is part of the ongoing maintenance efforts. This project consists of reroof/roof repairs at five buildings throughout the City including: Fire Station 204, Police Annex Building, Rialto Recreation and Community Center (Gymnasium), Community Center (1st Christian Church), and Police Department Building.

Metrolink Parking Lot Expansion (\$1.5M) – Construction Management, Inspection and Labor Compliance services during the expansion of a parking lot. Improvements include new curbs, gutters, ramps, signage and lighting as well as grading to prepare for asphalt concrete.

Rialto Community Center ADA Upgrades (\$280K) – Construction Management, Inspection and material testing for ADA upgrades at the City's Community Center. Upgrades include new ramps, curbs, signage and entry ways.

Joe Sampson Park (\$5.2M) – Construction Management, Inspection and Labor Compliance services on a new \$5.2M eight-acre community park. Project features include new parking lot, pre-fabricated public restroom building, splash pad, playground equipment, shade structures and canopies, mass grading, roadway and utility improvements, pathway lighting, street lighting, storm water BMP placement and compliance, fencing, railing, basketball courts, soccer fields and community art projects. Duties included overseeing contractor's work product, managing site inspection, administration and materials testing staff, managing and administering the construction contract budget, review of contractor schedule and progress, preparing daily, weekly and monthly reporting to update the City staff. Our Construction Manager oversaw the construction project progress and labor compliance, provided submittal reviews, responded to contractors RFI's, RFC's, processed monthly progress payments and coordinated with local utilities, project designer and City Project Manager.

El Rivino Street Storm Drain (\$2.2M) – Construction Management and Inspection during the replacement of storm drain along existing streets.

Development Projects (\$ Varies) – Inspectors provide construction observation during the installation of sewer lines, HDPE pipes, catch basin filtration systems, storm drains and concrete placement (foundations, curbs and gutters). Inspectors verify the lining and grading of all pipes, monitor backfill activities, and check materials for compliance.

Recent and/or current projects include:

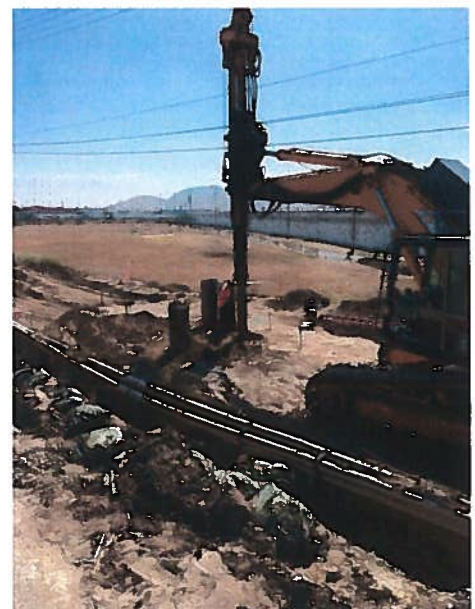
Amazon Distribution Warehouse (\$90M) – 1M sq ft building that included the installation of over 3,500' of HDPE pipe with pipe diameter ranging from 18" to 38". Project also required inspections during the installation of storm tech isolators - which are underground stormwater detention chambers.

Renaissance East Development (\$50M) – Retail and Entertainment Center spanning 250,000 sq ft and 60 acres

Monster Energy Drinks (\$85M) – 1M sq ft warehouse and distribution building on 48 acres

Fedex Ground Expansion (\$25M) – 100,000 sq ft building

I-210 Logistics Center (\$300M) – Large warehouse buildings ranging from 200,000 sq ft to over 700,000 sq ft



El Rivino Street Storm Drain, City of Rialto



Section 5 – Experience and References

On-Call Project Management, Construction Management and Inspection City of Murrieta, CA (Feb 2010 – Present)

Related Elements

Variety of CIP projects

W&A Key Staff

Contract Manager: Carl Wallace, PE

Project Manager: Bryan Tuschhoff, CMIT, PMP, QSP

Construction Manager: Bryan Tuschhoff, CMIT, PMP, QSP, Barry Safa, PE, Peter Ramey, PE, John Reidinger, CCM

Cost Estimating: Bryan Tuschhoff, CMIT, PMP, QSP

Constructability Reviews: John Reidinger, CCM

Inspectors: Eric Maher, QSP, Dave Zamiski, David Babcock, Ken Burris, Dave Romero, QSP, Richard Scott, Jeremy Vander Veen, Coolsy Smith, Cesar Ramirez

Client Contact

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City Engineer

(951) 304-2489

bmoehling@murrieta.org

W&A provides Project Management, Construction Management and Resident Inspection services to a variety of projects throughout the City. The City's CIP has a variety of projects ranging in size and duration with some being projects occurring concurrently. W&A provides the City with Project Managers, Construction Managers, Resident Inspectors and part-time Inspectors based on the project needs. Our services include managing project schedule and budgets, monitoring and inspection during pre-construction and construction activities, assistance with project close out and administrative assistance. W&A also communicates and coordinates work with the City, local gas and water providers and other stakeholders. A sample of projects includes:

Line D and Line D-1 Storm Drain Realignment Project (\$4M) – Provided resident inspection services for this combination 1,000' of 42" RCP and 900' of 108" box culvert drainage improvement project. Duties included preparing daily reports with workforce, equipment, operation description, materials incorporated into the work and photographic records of the site. Duties also included checking as-built drawings, holding weekly meetings with contractor and City staff, preparing weekly statement of working days, calculating the Quantities of Bid item work for progress payments, and preparing Daily Extra work reports for any T&M work or change order work. The project included four large junction structures, 16 manholes, site work, grading, landscaping, road crossing work at Madison Avenue, temporary shoring, NPDES/SWPPP compliance monitoring and pipeline and box culvert construction.

Guava Storm Drain (\$2M) – Resident inspection for a 3,000' storm drain extension from Jefferson Avenue to Murrieta Creek. Project elements included triple box structure,

grading and drainage, street improvements and bioswale drains. Gas, water and sewer lines were relocated and right-of-way was extended for the placement of power poles. W&A inspector worked closely with Riverside County Flood Control while their staff performed rebar inspections.

CIP Facilities Project Management – Responsibilities on the CIP projects encompass project and construction management of the Pre-Construction, Construction and Post Construction phases of the work, CDBG federal funding compliance, and CDBG federal funding close-out. Services on design projects include administration and extensive coordination with the Design Architect and Engineer throughout the development of 100% plans and specifications; management of the review and comments process with the various City departments including Building and Safety, Fire, Police, Engineering (structural and civil), Geotechnical, Federal Funding agencies, and Utility Agencies. Two building examples include:

Murrieta Senior Center Improvements Project (\$400K) – Tenant Improvements included paint, carpet, tile, window coverings, bathroom fixtures, security system upgrades and new TPO roof system.

Murrieta Community Center Improvements Project (\$232K) – Tenant Improvements included paint, tile, ADA elevator lift and aluminum ramp, refinishing the hardwood stage floor.

Park and Recreation Project Management (\$ Varies) – Project Management and Construction Management Services to the City's Parks and Recreation Department. Current and completed projects include:

Adams/Juniper Water Well Redevelopment Project (\$100K) – Redevelopment includes installation highline to percolation ponds, well casing refurbishment, video survey and gyroscopic alignment survey, casing thickness inspection, installing of test pump equipment, well development via test pumping, surging and step-draw down and well capping.

Town Square Park Project Phases 1, 2 and 3 (\$6.1M) – Improvements include a covered amphitheater and stage with concrete lawn seats, dance floor, theater lighting and audio, Wi-Fi, security cameras linked to PD, and emergency power back-up, restrooms, dressing room and storage building.

Senior Center Outdoor Recreation Area (\$1.1M) – Improvements include covered workout stations, two pickle ball courts, ping pong table, picnic tables and gazebo.



Line D and Line D-1 Storm Drain Realignment Project, City of Murrieta



Section 5 – Experience and References

Roof Replacement and Exterior Paint for City Hall, Community Center, Police Department, Fire Station No. 6 (Engineers' Estimate TBD) – Preliminary improvement concepts include review of TPO or Acrylic roof replacement systems and exterior color palette selection.

Sykes Ranch Park (Engineers' Estimate TBD) – Initial improvements concepts include a full-size windmill (per City of Murrieta logo) sidewalks, lighting and landscaping.

California Oaks Sports Park (Engineers' Estimate TBD) – Initial concepts included new park lighting, security cameras and seating.

Whitewood Avenue Widening Project (\$6M) – Provided resident inspection for this roadway widening from two to four lanes for about one mile along Whitewood Avenue. Project features include 14'x7' double box drainage channel, water quality trenches in the parkways, two fully signalized intersections, R/W fencing, parkways, landscaping and irrigation, sidewalk, ADA improvements, driveways and utility relocations.

Madison Avenue Widening Project (\$7M) – Provided resident inspection for this roadway widening from two to four lanes for about one mile along Madison Avenue. Project features included in the parkways, signalized intersection at Guavas, parkways, medians, landscaping and irrigation, sidewalk, ADA improvements, driveways and utility relocations.

Jackson Avenue Bridge Project (\$5M) – W&A's Resident Inspector managed the construction and inspection of the bridge. Construction included a six-span arch culvert over a creek and nearly 170,000 cy of earth work, street widening from two to four lanes, construction of retaining walls, storm drain improvements and additional site improvement for the widening including pile driving and installation camber calculation and survey, abutments, steel reinforcing, concrete deck, barrier walls, pavement section and utility coordination.



Section 6 – Fee Schedule



Wallace & Associates Consulting, Inc.

HOURLY FEE SCHEDULE

Jan 1, 2020 through Dec 31, 2020

City of Garden Grove

Fully Burdened Billing Rates

Position	Rate / Range
Project Principal / Project Manager	\$ 188.00 to \$ 200.00
<i>Carl Wallace, PE</i>	\$ 188.00
Project Managers / Construction Managers	\$ 165.00 to \$ 176.00
<i>Senior Project Manager</i>	\$ 176.00
<i>Project Manager</i>	\$ 166.00
<i>Deputy Project Manager</i>	\$ 156.00
<i>Senior Construction Manager</i>	\$ 176.00
<i>Construction Manager</i>	\$ 166.00
<i>Deputy Construction Manager</i>	\$ 156.00
Project Engineer	\$ 128.00 to \$ 188.00
<i>Chief Engineer</i>	\$ 188.00
<i>Cost / Sched Engineer</i>	\$ 168.00
<i>Project Engineer</i>	\$ 144.00
<i>Office Engineer</i>	\$ 128.00
Senior Construction Inspector	Prevailing Wage & Off-Site
<i>CM/Senior Inspector</i>	\$ 152.00
<i>Supervising Inspector</i>	\$ 144.00
<i>Senior Construction Inspector</i>	\$ 134.00
<i>Senior Const Inspector</i> Swing and night shift	\$ 150.00
<i>Senior Const Inspector</i> Overtime	\$ 180.00
<i>Senior Const Inspector</i> Doubletime	\$ 210.00
Labor Compliance Auditor Specialist	\$ 80.00 to \$ 134.00
<i>Labor Compliance Manager</i>	\$ 134.00
<i>Senior Labor Compliance Specialist</i>	\$ 100.00
<i>Labor Compliance Interviewer/Auditor</i>	\$ 80.00
Office Staff	\$ 80.00 to \$ 90.00
<i>Contract Administrator</i>	\$ 84.00
<i>Senior Project Administrator</i>	\$ 88.00
<i>Project Administrator</i>	\$ 80.00

NOTES:

Rates are inclusive - Rates include related costs: professional liability insurance, overhead, vehicle, vehicle insurance, fuel, vehicle maintenance, laptop computer, heat gun, probe, smart level, cell phone and calling plan, digital camera and standard tools and equipment. All other direct expenses (Plan Reproduction, Large Printing jobs and Delivery/Mail) will be billed at cost plus 12%. W&A does not charge job mileage, drive time or mileage to work.

Premium Time for Inspectors - Swing or Night Shift will be charged at Shift Differential Rate. Overtime for inspection staff will be used for any Overtime and Saturdays and Doubletime for Holidays and Sundays. We have a four-hour minimum for Inspection.

Construction Inspection Prevailing Wage - For Prevailing Wage (CIP and Off-Site Inspections) Supervising and Senior Construction Inspector Positions we increase rates at the time of new labor determinations for that labor class. These rate increases can occur (without advance notice) in January, April, July and October each year. We would include the DIR increase in our rates plus 100% of the total increase. Using this formula, if the DIR designates a \$1.00/hour increase, W&A would apply a \$2.00/hour increase to the established base rate. In this example, our current rate of \$134.00/hour for the Senior Inspector would increase to \$136.00/hour and the CM/Inspector rate would increase from \$152.00/hour to \$154.00/hour.

Subconsultant rates will be marked up by 10%.



Section 7 – Appendices





Carl Wallace, PE

Project Manager/Resource Manager

Mr. Wallace has over 28 years of experience in managing public works infrastructure, water and construction programs for several public entities and is highly experienced in managing large scale projects during design and construction phases. He brings strong understanding of local, state and federal funding requirements, Caltrans LAPM, Greenbook Standards. Since starting W&A in January of 2010, Carl provides project and contract management services, as well as oversees all QA activity. He ensures the success of each project and provides support to both clients and personnel. His key responsibilities have included managing capital construction projects ranging from small projects to major programs with construction values up to \$500M. Specific responsibilities have included staffing, management, project delivery, on-time performance, adherence to jurisdictional requirements, hiring and managing other consultants for tasks involving testing, project controls, inspection, resident engineering and claims management, and he has personally performed these same duties for a variety of local, state and federal projects.

Experience

28 years

Education

BS, Engineering; San Diego State University

Registrations

Registered Civil Engineer, CA #C59307

Certifications

Caltrans Resident Engineers Academy

FTA Grant Management

40-hour HAZMAT Training

10-hour OSHA Training

On-Call Construction Inspection Services, City of Garden Grove, CA

Contract Manager for Construction services contract with the City. Select projects include:

- Cannery-Imperial Interim Storm Drain Improvements from Gilbert Street and Imperial Avenue to Garden Grove Boulevard and Cannery Street (\$3M)
- Chapman Avenue Pavement Reconstruction (\$2.4M)
- City Hall Council Chambers Renovation (\$350K)
- Euclid Street/Garden Grove Blvd/Woodbury Avenue Rehabilitations and Palmwood Sidewalks (\$3.8M)
- Harbor Boulevard Traffic Signal (\$500K)
- Knott Street Rehabilitation (Federal Funds) (\$2.7M)
- La Bonita Street Storm Drain Improvement Project (\$1.1M)
- Lampson Storm Drain Project (\$450K)
- Magnolia Street Rehabilitation (\$3M)
- Police Department Headquarters Renovation (\$800K)
- Rancho Alley and Lampson Drainage (\$400K)
- Valley View Street Improvements (\$250K)
- Westminster Boulevard Rehabilitation (\$1.8M)

On-Call Public Works & Land Development Inspection Services, City of Irvine, CA

Project Manager for providing inspection services for various projects within the City. Oversees and monitors inspection staffing and provides Quality Assurance for our staff. Select projects include:

- 2013/14/15/16/18/19 Citywide Paving and Slurry Seal (\$5M/\$9M/6M/\$6M/\$10M/\$7.5M)
- Irvine Boulevard Pedestrian Bridges (\$4M)
- Irvine Boulevard Improvements (\$12M)
- Great Park Development Project (\$400M)
- Five Points Development Project (\$100M)
- Alton Storm Drain (\$6M)
- City Hall Fueling Modification (\$1M)
- San Diego Creek Channel Improvements (\$1M)
- Marine Way Road Improvements (\$250K)

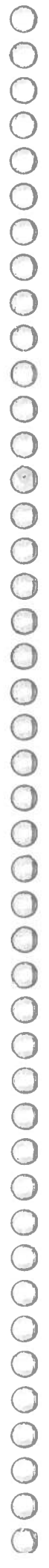
As-Needed Project Management, Construction Management and Inspection, City of Corona, CA

Project Manager for a variety of street, development, water and sewer projects throughout the City. Duties include staff management, site visits, project meeting participation and problem avoidance and mitigation. Select projects include:

- Butterfield Park 24" Recycled Water Line (\$1.7M) – Two-mile directional drill HDPE and Trenched DIP
- Citywide Street and Safety Light Project (\$5M) – LED lights and control systems
- Desalter Connection (\$750K) – Mixing station for potable water with piping and building connections
- El Cerritos Waterline and Pipe Slab Cover (\$1.5M) – DIP waterline
- Green River Road Widening (\$6M) – Widening and new traffic signals
- Masters Drive Recycled Waterline (\$2.5M) – 15,000' recycled waterline
- McKinley Grade Separation (\$150M) – Interchange at I-91 & McKinley
- Metro Center Development (\$50M) – Mixed-use development project
- Ontario Cold-In-Place Recycled Asphalt Road Rehabilitation (\$1.5M)
- Reservoir-3 Replacement (\$3.1M) – DYK Tank 2.5 MG reservoir with 1.7-acre site improvements
- Sampson Pressure Reducing Station (\$300K) – Undergrounding of Pressure Reducing Station

On-Call Construction Management and Inspection Services, City of Fullerton, CA

Project Manager providing Construction Management and qualified inspectors for a variety of Capital Improvement projects. Projects include street rehabilitation, traffic signal and intersection, water and sewer improvements, storm drain facilities,



Carl Wallace, PE

Project Manager/Resource Manager

landscaping and irrigation. Oversees and monitors inspection staffing and provides Quality Assurance for our staff. Projects include:

- 4300 N. Harbor Boulevard (\$2.5M) – On and off-site improvements for a new development. Work includes grading, paving, ADA sidewalk and ramps, curbs, gutters and driveways
- Chapman Avenue Rehabilitation (\$1.5M) – Street and sidewalk improvements that include potholing, grading, reconstruction and traffic control
- Valencia Drive Infrastructure Improvements (\$1.5M) – Work involves traffic control, water shut downs and tie-ins, grinding and repaving, and infrastructure improvements

CIP and Land Development Construction Management/Inspection Services, City of Rialto, CA

As Project Manager, responsibilities include staffing projects and providing QA/QC for inspection staff. Also coordinates the staff training program for this on-call contract. Project role includes construction management and inspection of various on-site and off-site CIP and land development projects in accordance with City standards. Recent and ongoing projects include:

- Fedex Ground Expansion (\$25M) – 100,000 sq ft building
- I-210 Logistics Center (\$300M) – Multi-phased warehouses ranging from 200,000 sq ft to over 1M sq ft
- Magnolia Street Rehabilitation (\$3M)
- Monster Energy Drinks (\$85M) – 1M sq ft warehouse and distribution building on 48 acres
- Numerous Residential Developments (\$ Varies) – Infrastructure and site work to prepare for construction of single family detached homes, condominiums and apartment complexes
- Renaissance East Development (\$50M) – Retail and Entertainment Center spanning a 60-acre site

On-Call Project Management, Construction Management and Inspection Services, City of Murrieta, CA

Contract Manager overseeing Project Manager, Construction Managers and Inspectors on variety of projects throughout the City. Sample projects include:

- Guava Storm Drain (\$2M)
- Jackson Ave Bridge and Roadway (\$8M)
- Jefferson Road Improvements (\$4M)
- Line D & D-1 Storm Drain Realignment (\$4M)
- Madison Avenue Widening Project (\$7M)
- Whitewood Avenue Widening Project (\$6M)

As-Needed Construction Management and Inspection Services Contract, City of Manhattan Beach, CA

Project Manager for Inspection Services for variety of transportation, parks, water and sewer projects:

- Sepulveda Watermain Replacement (\$1.5M) – Two-mile 12" mainline replacement project
- Marine Drive Soccer Field (\$1.5M) – New Synthetic Turf and Utility project
- 2012/2013 Sewer Manhole Replacement (\$400K) – Sepulveda Avenue Sewer MH Replacement project
- 2012/2013 Sidewalk Repair (\$700K) – Sidewalk improvement project for streets Citywide

Project Management and Support Services, City of Chino, CA

Project Manager for various CIP projects throughout the City. The project work includes developing and managing projects included in the City's 5-year Capital Improvement Program (CIP). The City's CIP includes projects under several categories: Parks, Public Facilities, Water, Sewer, Sanitation, Storm Drain, Streets, Traffic and Miscellaneous. The 2018/19 budget is approximately \$59M divided between 50 projects. Elements involve construction and repair of roads and bridges, installation and upgrade of traffic signals, rehabilitation of water and sewer lines, construction and renovation of parks and City facilities, and installation of streetlights and sidewalks. Recently completed and/or current projects include:

- Magnolia Avenue Storm Drain at Salem Street & Carissa Avenue (\$700K)
- 3-System Storm Drain at Ross, Walnut & Magnolia Avenues (\$2.6M)
- Local Street Overlay -Walnut & East End Neighborhoods (\$1.5M)
- FY2018-19 Street Rehabilitation and TSM at Riverside Drive (\$2.5M)

On-Call Construction Management, Inspection and Contract Administration, City of Lake Forest, CA

Contract Manager for the City to assist in the bidding, utility notification, scheduling, meetings, meeting minutes, bonding, engineering support, coordination, request for information, federal requirements, progress payments any other general contract administration support. Specific projects include:

- Portola Park Center Project (\$5.1M) – The Portola Park project will construct a 6.3-acre park located near the intersection of Saddleback Ranch Road and Glenn Ranch Road. Project includes 10 acres of public and private parks, recreational facilities and public use trails.
- Peachwood Park (\$100K) – Park renovations which include landscape improvements, site furnishing, concrete construction, grading and a shade structure.



Bryan Tuschhoff, CMIT, QSP, PMP

Senior Construction Manager/Senior Construction Inspector

Mr. Tuschhoff brings 30 years of experience in Project Management, Construction Management and Construction Inspection. He has worked on a diverse group of projects, which have included underground installation of wet and dry utilities including electrical, sewer, water, storm drain, oil and jet fuel pipelines, all types of asphalt paving operations, structural and architectural concrete placement. His experience also extends to mass grading earthwork operations, pile driving, caisson column installation, environmental remediation and mitigation, surface water/storm water management, SWPPP compliance, structural and architectural steel erection, and SCADA system installation. Bryan has worked on new construction projects as well as rehabilitation and improvement projects. His comprehensive experience provides him with the ability to identify potential project issues early and propose various mitigation options.

Experience

30 years

Education

BS, Physical Geography & Earth Science,
Western Illinois University

Project Management Certification,
University of California, Irvine

Registrations

Qualified SWPPP Practitioner, QSP
#20944

Certified Inspector Sediment & Erosion
Control (CISEC) #0444

Pechanga Parkway Widening, City of Temecula, CA

Construction Manager during the ¾ mile widening of this heavily traveled road. The \$5M widening includes removal of existing concrete asphalt, curbs and gutters, sidewalks and medians. The project will expand the street, provide curbs and gutters, ADA improvements and install new traffic signals. Minor utility relocation will also take place.

Temecula Park and Ride Project, City of Temecula, CA

Construction Manager during the bidding and construction of a new \$2.7M park and ride facility, and related street improvements. The park and ride facility consist of a 157-space parking lot security lighting, landscaping and four electric vehicle charging stations. The street improvements include widening of Vallejo Road for approximately 800 lf, demolition of existing street, grading, asphalt paving, asphalt berm, traffic signage and striping.

White Avenue Street Rehabilitation Project, City of Pomona, CA

Lead Construction Manager for this \$2.4M ARRA funded, Caltrans administered, 1.5 mile roadway improvement project. Responsibilities included Caltrans coordination, ARRA funding compliance and supervision of construction management and construction inspection staff. This community sensitive project included extensive construction scheduling coordination with the contractor and Pomona Fair Plex to provide new asphalt pavement along all White Avenue entry points to the Pomona Fair Plex parking lots and commons.

Project Management and Construction Management Services, City of Murrieta, CA

Currently providing Project Management and Construction Management Services to the City's Parks & Recreation Department. Responsibilities encompass project and construction management of the Pre-Construction, Construction and Post Construction phases of the work including coordination with City Management and staff; Pre-Construction Phase bid analysis and tabulation, reference check, license, bid bond, surety and insurance confirmation, file structure set-up, establishment of CDBG federal funding requirements, pre-construction meeting, photos, and contract administration; Project Management and Construction Management of the Construction Phase including construction contract administration submittal and RFI, RFQ, COR, CCO, CDBG federal funding compliance, progress payment review and processing, weekly project progress meetings, construction inspection, building and safety department review; and Post Construction including, administration of project turnover items, close-out deliverables, certificate of completion, CDBG federal funding close-out, final payment, retention release, final project delivery.

Capital Improvement Projects include:

- Murrieta Senior Center Improvements Project (\$400K) – Tenant Improvements included paint, carpet, tile, window coverings, bathroom fixtures, security system upgrades and new TPO roof system.
- Murrieta Community Center Improvements Project (\$232K) – Tenant Improvements included paint, tile, ADA elevator lift and aluminum ramp, refinishing the hardwood stage floor.
- Adams/Juniper Water Well Redevelopment Project (\$100K) – Redevelopment included installation highline to percolation ponds, well casing refurbishment, video survey and gyroscopic alignment survey, casing thickness inspection, installing of test pump equipment, well development via test pumping, surging and step-draw down, well capping.

Responsibilities for design projects involve administration and extensive coordination with the Design Architect and Engineer throughout the development of 100% plans and specifications; management of the review and comments process with the various City departments including Building & Safety, Fire, Police, Engineering (structural and civil), Geotechnical, Federal Funding agencies, Utility Agencies including electric, water, sewer, RWQCB, WQMP, to complete the final review and approval process; advertising the projects for bid through various news agencies, minority publications and PlanetBids; answering bid questions, and conducting the pre-bid conference.



Bryan Tuschhoff, CMIT, QSP, PMP

Senior Construction Manager/Senior Construction Inspector



Design projects include:

- Town Square Park Project Phases 1, 2 and 3 (\$6.1M) – Improvements include an covered amphitheater and stage with concrete lawn seats, dance floor, theater lighting and audio, Wi-Fi, security cameras linked to PD, and emergency power back-up, restrooms, dressing room, and storage building.
- Senior Center Outdoor Recreation Area (\$1.1M) – Improvements 11 include covered workout stations, two pickle ball courts, ping pong table, picnic tables, gazebo.
- Second Ave. Park Project (\$200K) – Improvements include a tot lot, and parking lot.

Also providing services for design investigation projects for the City. Responsibilities include coordination of the design development with the Architect, Engineer, City staff, Community Groups and Contractors to identify the initial concept and scope of work and begin preparation of the plans and specifications.

Design investigation projects include:

- Roof Replacement and Exterior Paint for City Hall, Community Center, Police Department, Fire Station No. 6 (Engineers' Estimate TBD) – Preliminary improvement concepts include review of TPO or Acrylic roof replacement systems, exterior color palate selection.
- Sykes Ranch Park (Engineers' Estimate TBD) – Initial improvements concepts include a full size windmill (per City of Murrieta logo) sidewalks, lighting, and landscaping.
- California Oaks Sports Park (Engineers' Estimate TBD) – Initial concepts include new park lighting and security cameras, seating.

Jackson Avenue Bridge, City of Murrieta, CA

Construction Manager/Inspector during construction of the structural concrete support components of this 195' cast-in-place arch-culvert structure, consisting of six 24' wide arch cells that extend over Warm Springs Creek at the City of Murrieta's border with Temecula. This 12-month, \$7.3M project connects Murrieta's Jackson Avenue with Temecula's Ynez Road and replaced the existing "Arizona Crossing." Responsibilities included daily observation, documentation and digital recording of the erection of the concrete falsework and formwork, steel rebar installation, structural concrete placement, scheduling of concrete material sampling and testing, quality control monitoring and logging of concrete materials, pour dates, and laboratory test break results, organization of applicable RFI's, and submittals, concrete pour schedule review, and coordination with the design engineer, City Project Manager and City Engineer.

Capital Improvement Projects, Elsinore Valley Municipal Water District, Lake Elsinore, CA

Lead Construction Manager for this multiple project program of Capital Improvement Water and Recycled Water projects. The \$2.75M CIP program included five individual projects with more than 16,000' of 6", 8", 12" and 16" ductile iron distribution pipeline and associated water meters (included 1,509 new Automatic Reading Water Meters), 1,500' of 4" PVC recycled waterline with 3,500 sprinkler heads, replacement of inoperative and broken gate valves at four intersections, and the interconnection of two water pressures zones. Responsible for organizing and conducting pre-construction meetings, setting up the document control system and getting the construction inspection team ready to begin work.

AMI Phases II & III and DCU Poles, Elsinore Valley Municipal Water District, Lake Elsinore, CA

Construction Manager for this \$4M Grant Funded Advanced Metering Infrastructure (AMI) Phases II & III and DCU Poles Projects. The project included three separate contracts for the installation of more than 46,000 new Aclara Water Meter Transmission Units (MTUs) and 11 Data Collection Unit concrete and wooden antenna poles to create an advanced meter data management system for the District via Aclara's proprietary network.

Plant 40 Pump Station Improvement, East Valley Water District, Highland, CA

Construction Manager/Inspector during construction of this \$817K pump station improvement project that included four vertical turbine pumps and motors, flow meters, instrumentation, telemetry and SCADA control system installation, electrical and lighting system improvements and structural steel canopy installation. Responsible for factory witness testing of the pumps and motors, approval of progress payments and change orders, inspection and documentation of the plant construction work, preparation of daily reports, photo documentation, recording and observation of pressure testing, chlorination and dechlorination, plant startup and commissioning.

Plant 137 & Live Oak Road Pipeline Replacement, East Valley Water District, Highland, CA

Construction Manager/Inspector for the installation of approximately 3,185' of 12" ductile iron waterline and appurtenances through the rocky foothills of a residential neighborhood. Construction of this \$717K project also included demolition of existing treatment train equipment and construction of facility site improvements at Plant 137. Responsible for daily observation, documentation and digital recording of the contractor's work, coordination and scheduling of material testing and quality control,



Bryan Tuschhoff, CMIT, QSP, PMP

Senior Construction Manager/Senior Construction Inspector

monitoring traffic control measures and documenting storm water BMP installation and maintenance, community relations and coordination with public utility agencies, attending bi-weekly progress meetings, assisting in the processing of change orders, construction schedule reviews, progress payments, RFI's, submittals and checking site safety procedures.

Sewer Main Construction, East Valley Water District, Highland, CA

Project Manager while also providing oversight of construction inspection services for construction of this \$300K onsite sewer improvement project located in the new residential housing track (WS 0000 Tract #17681). Construction included installation, backfill, pressure testing and tie-in to existing facilities of 2,071' of 8" PVC sewer main line, construction of 14 sewer manholes, and installation of 64 new sewer service laterals. Responsibilities included coordination with the EVWD Project Manager, construction scheduling, budget management, review of daily construction reports and photographic documentation, traffic control and punch list completion.

Small Meter Replacement Project (Southwest District), Golden State Water Company, Los Angeles, CA

Project Construction Manager during the installation of over 5,000 new water meters ranging from ¾" to 2" throughout various communities. This \$700K project includes close coordination with operations and maintenance staff to schedule work of two contractors within the constraints of the billing cycles and meter reading routes. Construction inspection services included contract compliance, material management of owner provided meters and materials to two separate contractors, coordination with multiple City jurisdiction and management staff.

Utility Relocation, SbX - E Street Transit Corridor Bus Rapid Transit, San Bernardino Municipal Water District, CA

Construction Manager/Inspector for the water utility relocation portion of project. This \$191.7M rapid transit improvement project included 15.7 miles of new public transportation bus route through the downtown San Bernardino area. Responsibilities included inspection of the contractor's work for the relocation and/or replacement of existing water main pipeline, fire hydrants, commercial water meters, associated service laterals and appurtenances during alternating day and night work shifts. Duties included extensive daily coordination with SBMWD and the contractor to successfully execute water service interruptions and/or full water main shutdowns, chlorination, flushing and residual chlorine testing, bacteriologic sampling analysis, preparation of daily reports and photo documentation, preparation of tie-sheet record documents and creation of as-built drawings.



Paul Allison, CMIT

Senior Construction Manager/Senior Construction Inspector

Mr. Allison has more than 19 years of experience as a Construction Management professional, with extensive experience on large-scale water related projects. He has been responsible for quality assurance inspection of all aspects of construction from project startup, to project closeout and finalization. As an Inspector, he is diligent in assisting project teams to detect and resolve issues before they affect the construction or budget through comprehensive documentation and communication. As a Resident Engineer, he has been responsible for document control, weekly meetings, pay applications and change order processing. As a Construction Manager he is focused on collaboration through communication.

Cannery-Imperial Interim Storm Drain Improvements from Gilbert Street and Imperial Avenue to Garden Grove Boulevard and Cannery Street, City of Garden Grove, CA

Senior Construction Inspector for the \$3M installation of storm drains from Gilbert Street and Imperial Avenue to Cannery Street and Garden Grove Boulevard. This project is primarily comprised of constructing approximately 4,000' of storm drain and consists of: furnishing and installing 60", 48" and 36" dia. polypropylene pipe storm drain construction; sheeting, bracing and extensive shoring; dewatering; traffic control; furnishing/installing trench backfill with ¾" rock; constructing catch basins and local depressions; constructing manholes and junction structures; cross connections; removing existing and constructing approximately 480' of sewer line; constructing new sewer manholes with Sancon 100 lining; removing and reconstructing 4" sewer house laterals; removing existing and constructing new 280' of 12" PVC water line; water services replacement; cold mill existing AC approximately 41,000 sf to a depth of 2" deep; furnishing and installing aggregate base and asphalt paving; adjustment of utility covers to finish grade; reestablishment of centerline ties and survey monuments. Inspection duties include daily reports and photos, maintaining photo log, verification of quantities for monthly payments, public outreach, installation verification, track personnel, equipment and working hours, inspect and monitor traffic control measures, inspect and monitor SWPPP installations.

Euclid Street/Garden Grove Blvd/Woodbury Avenue Rehabilitations and Palmwood Sidewalks, City of Garden Grove, CA

Senior Construction Inspector for the \$3.8M street rehabilitation projects throughout the City. Streets under construction were: Euclid Street, from Chapman Avenue to Katella Avenue; Garden Grove Boulevard, from Brookhurst Street to Nelson Street; and Woodbury Road, west of Harbor Boulevard. To facilitate construction work, traffic on Euclid Street and Garden Grove Boulevard was reduced to one lane. The improvements consisted of the removal and construction of uplifted median curbs, gutter, sidewalk, and wheelchair ramps; traffic striping; raised pavement markers; and asphalt concrete base and surface. The work resulted in an improved roadway surface and minimize maintenance efforts. On Palmwood Drive, from Patricia Drive to Vegas Way, improvements consisted of constructing a 4' wide sidewalk on both sides of the street. Inspection duties include DIR's, photo records, coordination with project manager, traffic control, Weekly Statement of Working Days, RFI's, progress payments and quantity takeoffs.

Edgewater Sewer Lift Station Project, City of Huntington Beach, CA

Senior Construction Inspector for this \$4.2M project which consists of the abandonment and demolition of an existing sewer lift station, and the installation of a new 1000 gpm submersible sewage lift station and force main. The project includes the construction of new gravity sewers, storm drain, and watermain, as well as curb, gutter, sidewalk and AC paving

Saddle Crest Pipeline/Saddle Crest Reservoir and Booster Pump Station, Trabuco Canyon Water District, CA

Construction Manager on two concurrently performed jobs. The first phase consisted of approximately two miles of 8" PVC and HDPE sewer and water lines installed in a new housing tract. The second phase consisted of a new 1.5 MG welded steel reservoir and booster pump station with a fully integrated SCADA system and a new pump house. Responsible for all aspects of Client and Contractor Coordination as well as scheduling, budget, and payments to the contractor and the CM.

Phase 2 Recycled Water Expansion Project, El Toro Water District, CA

Resident Engineer/Field Inspector that provided construction management and inspection services for this project. The project consisted of approximately 25,000' of 4", 6", 10" and 12" purple PVC pipe and was constructed in two phases simultaneously by

Experience

19 years

Education

BS (in progress), Construction Management, California State University, Long Beach

Micro-tunneling Risk Management and Ground Improvement Short Courses, Colorado School of Mines

Certifications

Construction Manager-in-Training (CMIT), Construction Management Association of America

Certified Public Infrastructure Inspector (CPII), American Public Works Association (APWA)

Certified NASSCO CIPP Inspector

ICC, Structural Steel and Welding Inspector

Certified Welding Inspector (CWI-QCI 96), American Welding Society

Qualified SWPPP Practitioner (QSP), CASQA

ACI, Level I Technician Concrete

OSHA 30-hr and Confined Space



Paul Allison, CMIT

Senior Construction Manager/Senior Construction Inspector

different contractors in separate areas of the Laguna Woods Village Retirement Community. Constructed entirely on residential streets, the contractors maintained access to residents at all times and were required to provide access for emergency vehicles within a three minute time limit. The District conducted a massive community outreach plan which was very successful but still required daily interaction to address resident's questions, comments and complaints. The stated goal of the project was "to get more compliments than complaints" and this goal was successfully achieved.

Alternate Raw Water Transmission Line, Trabuco Canyon Water District, CA

Resident Engineer/ Inspector provided construction management and inspection services for this federally funded project consisted of approximately 5,000' of 10" and 12" PVC pipe. This pipeline was constructed along an environmentally sensitive creek in an existing Orange County recreational path. Heavily used by cyclists, pedestrians and equestrians, the path was always required to be kept open and safe. Access and working hours were strictly limited. The rest of the project completed in City streets with strict traffic control guidelines and limited working hours. Responsibilities included setting up and maintaining the electronic document control systems and monitoring and verifying all aspects of the work. Processed submittals, change orders, and RFI's, verified and documented all changes and extra work, completed daily and photo inspection logs and processed monthly pay applications.

San Juan Creek 30" Effluent Transmission Main Replacement, Moulton Niguel Water District, CA

As the Resident Engineer and Inspector, provided construction management and inspection services for this federally funded micro-tunneling project. This project installed 300' of 60" steel cased micro-tunnel under the San Juan Creek. The greatest challenge of the project was the installation of the 80' deep jacking and receiving shafts. A 36" diameter PVC pipe was installed, grouted in place and connected to the existing outfall piping. Responsible for all aspects of construction management including inspecting, documenting the work, communicating with stakeholders, conducting progress meetings, and coordinating shutdowns. Set up and maintained the electronic document control system, processed all submittals RFI's and change orders, and processed payments to the contractor. Project stakeholders included Moulton Niguel Water District, Santa Margarita Water District, City of San Juan Capistrano, Calle Perfecto Business Park, Orange County Flood Control and Public Works, Orange County Transit Authority, Orange County Rail Authority, and US Army Corps of Engineers.

Capital Improvement Program and On-Call Services, Elsinore Valley Municipal Water District, CA

Lead Inspector that provided inspection services for the multi-contract CIP and on-call services to improve water, wastewater and recycling facilities. Responsibilities included inspection of well and reservoirs, pipelines, trunk sewers, micro-tunneling and boring, water and sewer mains. Also provided services for water, sewer and recycled waterlines for new housing tracts, pump stations, sewer lift stations and treatment plants. Inspected work quality and materials and verified the contractor's compliance with plans, specifications, and standards. Monitored extra work, verified T&M tickets, approved field changes and provided evaluations of cost and time for contractor change orders. Certified all the inspection reports for the team, compiled and managed the inspection files, and provided progress reports for construction and installation status.

Santa Ana River Interceptor Relocation and Realignment, Orange County Flood Control District, Yorba Linda, CA

Lead Inspector over a team of five Inspectors who provided quality assurance inspections for the project including a flow control facility and five miles of 54" fiberglass (FRP) pipe installed with open cut and pipe-jacking methods. The team verified that the work was being performed according to specifications and documented delays or other impacts to the project's schedule. The project contained 2,500' of slurry-based micro-tunnel with deep manholes, two river crossings and the longest compound curve in North America at the time. The pipeline segment included the installation of an inverted siphon with three 30" HDPE pipes. The project took place in the Featherly County Park where several endangered and protected species of birds impacted the work. Stakeholders included Orange County Flood Control District, Orange County Sanitation District, Orange County Public Works, Orange County Parks, Santa Ana Watershed Project Authority, the Army Corps of Engineers and Caltrans.

Lakeshore Trunk Sewer-North Reach, Elsinore Valley Municipal Water District, Lake Elsinore, CA

Lead Inspector for over three miles of new PVC-lined concrete pipe installed with traditional and slurry-based micro-tunneling methods (2/3) and open cut methods (1/3). This project involved a tunnel installation next to a senior center and retirement community, which involved constant interaction with the residents and property managers. A new entryway and exit were built to maintain safe access for residents at all times, as well as control noise and other construction nuisances.

Freeport Regional Water Authority Segments 3 and 4, Elk Grove, CA

QA Inspector provided inspection services for over one mile of 66" and five miles of 72" new concrete-lined steel water pipe, including one flow control facility, a surge control facility, a terminal weir structure and associated appurtenances. Inspected and verified the contractor's compliance with plans, specifications, and standards, monitored extra work, and verified T&M tickets.



Paul Allison, CMIT

Senior Construction Manager/Senior Construction Inspector

Otay Mesa Power Plant, City of San Diego, CA

Quality Control Inspector/Concrete Technician that provided welding, structural bolting and concrete sampling inspection services for structural steel and cast-in-place concrete for a new gas turbine power plant. Maintained project inspection reports and verified that materials on site were in accordance with the specifications.

High Meadow Ranch Offsite Water Line, Lakeside Water District, Lakeside, CA

Quality Control/Non-Destructive Testing Inspector for 5,000' of new 24" concrete-lined water pipe for a new housing development for Lakeside Water District. Responsible for welding inspection, non-destructive testing, grouting, and backfill inspection of a high pressure water line in an area with extremely difficult access due to the steep slopes and lack of roads.

Aircraft Rescue and Fire Station at Marine Corps Air Station, San Diego, CA

Quality Assurance Inspector for structural steel elements for a new fire station for the California Department of General Services and the US Marine Corps.

Moreno Lakeside Pipeline, San Diego County Water Authority, CA

Quality Assurance Inspector for five miles of new 60" concrete-lined steel water pipe, including two flow control facilities, two tunnels and associated appurtenances.

Pipeline #3 Relining, San Diego County Water Authority, CA

Quality Assurance Inspector for five miles of existing 60" concrete lined steel water pipe, relined with welded steel liners and concrete.

Encino Reservoir Water Quality Improvement Project, Los Angeles Department of Water and Power, Los Angeles, CA

Quality Control/Non-Destructive Testing Inspector for a new pump house for the water treatment facility and new piping systems for reservoir fill level control. The project also included a chlorination building made of pre-fabricated metal.

Los Angeles Regional Transit Metropolitan Center, Caltrans and California DGS, Los Angeles, CA

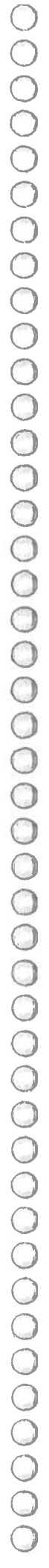
Non-Destructive Testing Inspector/Ultrasonic Tester for structural steel for the new earthquake resistant transit center for Caltrans and the California Department of General Services.

Catalina Pump Station, San Diego Water Authority, CA

Provided inspection services for a new pump house, a new power house and related piping systems. The pump house was a pre-fabricated metal with a metal roof.

Black Mountain Road Reclaimed Water Pipeline, San Diego County Water Authority, CA

Quality Control/Non-Destructive Testing Inspector for four miles of new 36" concrete-lined steel water pipe for reclaimed/irrigation water.



Pat Shen, QSP

Senior Construction Inspector

Mr. Shen has over 20 years of construction management, construction inspection and architectural experience on a vast array of city CIP construction projects. Recently his project experience has focused on city related CIP and public works projects that include pipeline installation, traffic signal installation, interconnects, parks and related projects. Pat also brings development experience having served as a Field Inspector and Construction Manager for a contractor on numerous commercial and medium-density housing projects. His duties encompassed field surveys, bid analysis, code research, specifications, cost estimates, contracts, site safety, weekly and technical reports, progress payments, change orders, punch lists, and mediation and arbitration hearings. In addition to his extensive construction inspection experience, Pat brings drafting and design development experience in architectural and structural engineering.

Experience

20 years

Education

BA, Architecture, University of Arizona

Certifications

Water Distribution D-5, DHS #8071

ACI Concrete Technician, Grade 1

OSHA 40-Hour HAZWOPER

Certified Public Infrastructure Inspector

La Bonita Street Storm Drain Improvement Project, City of Garden Grove, CA

Senior Construction Inspector for this \$1.1M storm drain improvement project along La Bonita Street and Shirley Street, from Westminster Avenue to Anabel Avenue. The improvements included construction of storm drain pipes, catch basins, and removal and replacement of concrete cross gutters. Inspection duties included DIR's, photo records, coordination with project manager, traffic control, Weekly Statement of Working Days, RFI's, progress payments and quantity takeoffs.

Cannery-Imperial Interim Storm Drain Improvements from Gilbert Street and Imperial Avenue to Garden Grove Boulevard and Cannery Street, City of Garden Grove, CA

Senior Construction Inspector for the \$3M installation of storm drains from Gilbert Street and Imperial Avenue to Cannery Street and Garden Grove Boulevard. This project is primarily comprised of constructing approximately 4,000' of storm drain and consists of: furnishing and installing 60", 48" and 36" dia. polypropylene pipe storm drain construction; sheeting, bracing and extensive shoring; dewatering; traffic control; furnishing/installing trench backfill with ¾" rock; constructing catch basins and local depressions; constructing manholes and junction structures; cross connections; removing existing and constructing approximately 480' of sewer line; constructing new sewer manholes with Sancon 100 lining; removing and reconstructing 4" sewer house laterals; removing existing and constructing new 280' of 12" PVC water line; water services replacement; cold mill existing AC approximately 41,000 sf to a depth of 2" deep; furnishing and installing aggregate base and asphalt paving; adjustment of utility covers to finish grade; reestablishment of centerline ties and survey monuments. Inspection duties include daily reports and photos, maintaining photo log, verification of quantities for monthly payments, public outreach, installation verification, track personnel, equipment and working hours, inspect and monitor traffic control measures, inspect and monitor SWPPP installations.

Euclid Street/Garden Grove Blvd/Woodbury Avenue Rehabilitations and Palmwood Sidewalks, City of Garden Grove, CA

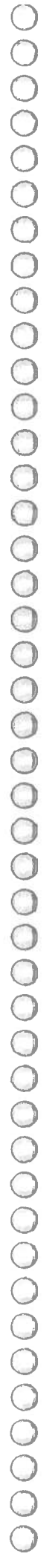
Senior Construction Inspector for the \$3.8M street rehabilitation projects throughout the City. Streets under construction were: Euclid Street, from Chapman Avenue to Katella Avenue; Garden Grove Boulevard, from Brookhurst Street to Nelson Street; and Woodbury Road, west of Harbor Boulevard. To facilitate construction work, traffic on Euclid Street and Garden Grove Boulevard was reduced to one lane. The improvements consisted of the removal and construction of uplifted median curbs, gutter, sidewalk, and wheelchair ramps; traffic striping; raised pavement markers; and asphalt concrete base and surface. The work resulted in an improved roadway surface and minimize maintenance efforts. On Palmwood Drive, from Patricia Drive to Vegas Way, improvements consisted of constructing a 4' wide sidewalk on both sides of the street. Inspection duties include DIR's, photo records, coordination with project manager, traffic control, Weekly Statement of Working Days, RFI's, progress payments and quantity takeoffs.

Various Residential Street Pavement Rehabilitation, City of Garden Grove, CA

Resident Inspector for this \$2M street rehabilitation project, full section removal, concrete work replacement, Section was 5" Cement Treated Base, 2.5" base course and 1.5" ARHM. Duties included pre-construction photos, daily inspection reports, weekly statement of working days, quantity calculations, RFI's, coordination with materials testing firm, job site photos, as-builts, final walk through and close out.

Magnolia Street Rehabilitation, City of Garden Grove, CA

Senior Construction Inspector for a \$3.1M one-mile roadway rehabilitation project with local funding on Magnolia Street from Garden Grove Boulevard, crossing under the SR-22 Freeway to the end of the off ramps. Project features included traffic signals and ADA ramps at Magnolia and Trask intersection, coordination with Caltrans for work under SR-22 freeway, installation of 2" - 96" diameter stainless steel pipes of about 150' for storm water retention which were connected to sump pumps near the low point at the freeway, dig outs for full section rehabilitation, used 5% cement treated base which included grinding and mixing of the old roadway asphalt, concrete medians, driveways, sidewalks and ADA ramps. Duties included pre-construction photos, daily



Pat Shen, QSP

Senior Construction Inspector



inspection reports, weekly statement of working days, quantity calculations, RFI's, coordination with materials testing firm, job site photos, as-builts, final walk through and close out.

Chapman Avenue Pavement Reconstruction, City of Garden Grove, CA

Senior Construction Inspector during a \$2.4M pavement reconstruction project through a major arterial and several cross streets in the City. Duties include pre-construction activities, permits, administering the contract, inspecting the work of various contractors, documenting the work via daily reports and digital photography, ensuring quality control, verifying quantities, participating in weekly progress meetings, processing control documents such as RFI's, submittals, progress payments, negotiating and managing change orders, and monitoring schedules.

Knott Street Improvements, City of Garden Grove, CA

Senior Construction Inspector for this \$2.2M roadway rehabilitation project. Project included FHWA federal funding requirements with Caltrans local oversight. Duties included pre-construction activities, permits, administering the contract, inspecting the work of various contractors, documenting the work via daily reports and digital photography, ensuring quality control, verifying quantities, conducting weekly progress meetings, processing control documents such as RFI's, submittals, progress payments, certified payrolls, negotiating and managing change orders, providing field fixes to design issues and monitoring schedules.

Sidewalk Repair for Handicap Access I-135, City of Torrance, CA

Senior Construction Inspector on this \$1.5M project that repaired damaged sidewalks, curb and gutter, driveway approaches and handicap curb ramps. Additional inspection work included tree root pruning and tree removal and replacements. Project funding included CDBG funds. Duties included inspecting the contractor's work, documenting the work via daily reports and digital photography and ensuring quality control.

2014/15 Annual Sewer Rehabilitation Project, City of West Hollywood, CA

Provided resident inspection annual sewer rehabilitation of older sewer lines within a section of West Hollywood as part of its annual rehabilitation program. The work consisted of Cured in Place Pipe CIPP (Slip Lining) of older VCP sewer lines up to 6" diameter. Quantity of pipe rehabilitated totaled less than 1,000'. Project included night work, review of video, tracking quantities and noting any anomalies in the video that would be brought to the attention of the City Project Manager for review and acceptance.

Sewer Replacement Project, City of Seal Beach, CA

Construction Inspector for \$1.2M project for replacement of approximately 150' of 36" sewer pipe and clean-up of existing contaminated soil. Work included jacking pit, 20' depth, boring under roadway section of Lampson and Seal Beach Boulevard. Work also included removal of contaminated soil from nearby fueling station, backfill with suitable fill to bring back up to grade.

Moody Street Sewer Relocation Project, City of Cypress, CA

Construction Inspector for a sewer relocation project for the City of Cypress. The work involved relocating two sewers on Moody Street and included traffic control, excavating, trenching, saw cutting, bypass construction, pump setup, coring, shield and shoring setup, concrete removal, manhole connections, removing VCP and old sewer main, installation of new VCP, pipe deflection, ductile iron pipe at the crossing, slurry backfill, bypass removal and paving.

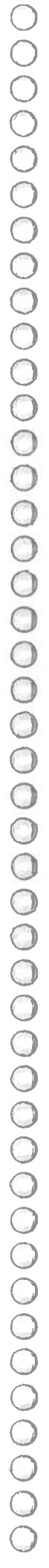
Inspection of Various Federal and State Funded Projects, City of West Hollywood, CA

Construction Inspector for assignments which encompassed street rehabilitation, street improvements, aesthetic improvements, safety improvements, traffic improvements, ARHM asphalt paving, lime treatment, grinding, traffic signals, interconnects, curb and gutter, sidewalks, decorative paving, bus pads, bus stop improvements, street lighting, ADA ramps, SWPPP, BMPs, NPDES, sewer repair and rehabilitation, landscaping and irrigation. Duties included pre-construction activities, permits, administering the contract, inspecting the work of various contractors, documenting the work via daily reports and digital photography, ensuring quality control, verifying quantities, conducting weekly progress meetings, processing control documents such as RFI's, submittals, progress payments, certified payrolls, negotiating and managing change orders, providing field fixes to design issues and monitoring schedules. Projects included:

- Santa Monica Boulevard from Doheny to San Vicente one side grind and overlay ¾ mile
- Fairfax from Santa Monica Boulevard to Fountain full grind and overlay 1600'
- San Vicente from Melrose to Santa Monica Boulevard full grind and overlay 1500'
- Local Residential Street grind and overlay approximately two miles
- Local Roadway replacement with ARHM, lime treatment, grinding and overlay 800'

La Brea Avenue Streetscape Improvement, City of West Hollywood, CA

Construction Inspector for streetscape project that involved 5,729 sf of new green space using drought tolerant plantings, 40 new street trees, medians, planted tree well, parkways designed as infiltration planters and 21 new blue pedestrian level street lights



Pat Shen, QSP

Senior Construction Inspector

along La Brea Avenue on the three-block segment from Fountain Avenue to Romaine Street. The work consisted of pavement preparation, street resurfacing, cold milling, pavement striping and markings, bus pad installation, loop replacement, adjustment of manhole frame and utility cover to grade, and installation of a pedestrian signal.

On-Call Public Works Inspection Services, City of San Juan Capistrano, CA

Construction Inspector for this on-call project that included asphalt paving, storm drains, concrete sidewalks, curb and gutter, street lighting, traffic signals, water lines and sanitary sewers. Inspected the work of the various contractors, documented work via daily reports and job photos, ensured quality control, verified quantities, and coordinated with employees of the City of San Juan Capistrano engineering and maintenance departments to ensure successful projects.

CIP and Land Development Projects, City of Irvine, CA

Senior Construction Inspector that provided daily inspections in support of the City of Irvine CIP and Land Development programs. Projects included grading, street paving, slurry, flatwork, landscaping, irrigation, street lights, traffic signals, storm drainage pipe and structures. Prepared daily reports for all projects including manpower, quantities, equipment, activities, items of work and subcontractors on site. Also managed CCO's, quantity calculations and construction issues.

Joint Transmission Main Reach 7 Permanent Repair, Cities of Dana Point / Laguna Niguel, CA

Construction Inspector to the South Coast Water District for this \$3.2M pipeline project. The work included grading, excavating, dewatering, installing 5,400' of 36" CML&C, cast-in-place concrete vault, valves, fittings, blow-off assemblies, hatches, sump pump, instrumentation, telemetry, RTU, cathodic protection, anode well, electrical work, pressure testing and disinfection.

Lincoln Water Line Upgrade, City of Cypress, CA

Construction Inspector to the City for this project which included replacing 1,400' of 12" DIP, tying into an existing water system, potholing, saw cutting, trenching, fire hydrants, service connections, tying over fire services, cutting and abandoning the old main, t-cutting and paving, slurry sealing, sidewalk and parkway restoration, and testing and start-up.



Cesar Ramirez, EE

Senior Construction Inspector

Mr. Ramirez is a Civil Engineering professional with over 25 years of construction and inspection expertise as well as budgeting, planning, inspection and staff management experience. He is versatile and very capable at providing inspection for every type of construction and has spent most of his career on projects throughout Southern California. Cesar's experience includes numerous CIP projects including traffic signal upgrades, landscape, street and roadway rehabilitation, water and sewer lines, wells, and pressure reducing stations, and parks. His roadway experience includes rubberized asphalt, cement paving, base paving, recycled asphalt base, aggregate base, lime-treated and cement treated base, medians and intersections. He is well versed in Caltrans, Greenbook and other regulatory standards, plus he understands the recordkeeping requirements and tasks to comply with the various state and federal funding requirements. Cesar has provided inspection and record keeping for numerous FHWA Federally funded projects.

Experience
25 years

Education
Santo Tomas de Aquino University,
BSCE

Certifications
Water Distribution D1

Euclid Street/Garden Grove Blvd/Woodbury Avenue Rehabilitations and Palmwood Sidewalks, City of Garden Grove, CA

Senior Construction Inspector for the \$3.8M street rehabilitation projects throughout the City. Streets under construction were: Euclid Street, from Chapman Avenue to Katella Avenue; Garden Grove Boulevard, from Brookhurst Street to Nelson Street; and Woodbury Road, west of Harbor Boulevard. To facilitate construction work, traffic on Euclid Street and Garden Grove Boulevard was reduced to one lane. The improvements consisted of the removal and construction of uplifted median curbs, gutter, sidewalk, and wheelchair ramps; traffic striping; raised pavement markers; and asphalt concrete base and surface. The work resulted in an improved roadway surface and minimize maintenance efforts. On Palmwood Drive, from Patricia Drive to Vegas Way, improvements consisted of constructing a 4' wide sidewalk on both sides of the street. Inspection duties include DIR's, photo records, coordination with project manager, traffic control, Weekly Statement of Working Days, RFI's, progress payments and quantity takeoffs.

Magnolia Street Rehabilitation, City of Garden Grove, CA

Senior Construction Inspector for a \$3.1M one-mile roadway rehabilitation project with local funding on Magnolia Street from Garden Grove Boulevard, crossing under the SR-22 Freeway to the end of the off ramps. Project features included traffic signals and ADA ramps at Magnolia and Trask intersection, coordination with Caltrans for work under SR-22 freeway, installation of 2" - 96" diameter stainless steel pipes of about 150' for storm water retention which were connected to sump pumps near the low point at the freeway, dig outs for full section rehabilitation, used 5% cement treated base which included grinding and mixing of the old roadway asphalt, concrete medians, driveways, sidewalks and ADA ramps. Duties included pre-construction photos, daily inspection reports, weekly statement of working days, quantity calculations, RFI's, coordination with materials testing firm, job site photos, as-builts, final walk through and close out.

Knott Street Rehabilitation, City of Garden Grove, CA

Senior Construction Inspector for \$2.2M roadway rehabilitation project. Improvements consisted of FDR reclamation and cement treatment, full depth asphalt replacement, replacement of curb and gutter, bus pad and handicap ramps, installation of video detection system, traffic signal detector loops, and installation of irrigation and landscaping. Project included FHWA federal funding requirements with Caltrans local oversight. Duties included pre-construction activities, permits, administering the contract, inspecting the work of various contractors, documenting the work via daily reports and digital photography, ensuring quality control, verifying quantities, conducting weekly progress meetings, processing control documents such as RFI's, submittals, progress payments, certified payrolls, negotiating and managing change orders, providing field fixes to design issues and monitoring schedules.

Valley View Street Improvements, City of Garden Grove, CA

Senior Construction Inspector for \$250K of street work that included full depth asphalt replacement, cement treatment base, curb and gutter, handicap ramps, irrigation and landscaping.

Lakewood Boulevard Street Improvements, City of Downey, CA

Senior Construction Inspector for the construction of right turns, traffic signals, relocation of So Cal Edison poles, relocation of water lines, new street light poles, curb and gutter, cold-milling and overlay of existing lanes, and striping. Responsibilities included performing daily inspections, administering contract documents, conducting weekly progress meetings, processing submittals, request for information and clarification, change orders and progress payments, generating final punch lists and monitoring the contractor's schedule. Other duties involved documenting the work via daily reports including City's excel forms and digital photography, and coordinating with various agencies, utilities and residents.

Doran Street Rehabilitation, City of Glendale, CA

Senior Construction Inspector for \$2.5M roadway rehabilitation project for about one mile on Doran Street (two lanes) from Brand Avenue to Adams Street. Project features include four intersections with new traffic signals, ARHM paving, type 2 slurry seal on



Cesar Ramirez, EE

Senior Construction Inspector

side streets and adjustment to existing manholes and water meters to finish grade. Project also included improvements on Jackson Street from Doran to Monterey and 300' ADA ramps at the intersections of Jackson Street and Kenwood Place. Part of the project included FHWA funding and record keeping requirements for daily inspection reports, progress payment quantities and employee interviews. Duties included pre-construction photos, daily inspection reports, weekly statement of working days, quantity calculations, RFI's, coordination with materials testing firm, job site photos, as-builts, final walk through and close out.

Street Pavement Maintenance and Rehabilitation, City of Corona, CA

Provided construction inspection during the \$2.9M street improvements with grind and overlay on four major arterials including Lincoln Avenue, Main Street, Hamner Avenue and River Road.

Multiple City Projects, Southern CA

Construction Inspector with duties that included daily inspections, administering contract documents, upholding code requirements, conducting weekly progress meetings, processing submittals, request for information and clarification, change orders and progress payments, coordinating with various agencies, utilities and residents, generating final punch list, ensuring traffic control, monitoring the contractor's schedule, maintaining public relations, documenting the work via daily reports including ARRA and Transportation Manual excel forms and digital photography. Projects included:

- City of Compton, ARRA Rehabilitation Project for Greenleaf Boulevard and Santa Fe Avenue – Included 1,145,200 sf existing asphalt ground, 2,944 tons of leveling course, 9,202 tons of ARHM, R/R of wheel chair ramps, C/G, sidewalks and deco-crosswalks
- City of Compton – ARRA project for the traffic light signals upgrading on 80 intersections in the City
- City of Norwalk, Norwalk Park Well – Construction of wellhead facilities and 2,500' of 12" DIP

City Street Light Upgrade, City of Corona, CA

Provided construction inspection during the \$3M replacement of inefficient, high pressure sodium street lights with new LED street lights, as well as installing a lighting control system that will be used for proactively maintaining street lights.

Approximately 8,000 streetlights throughout the City were replaced in four phases over a six-month period. Inspection occurred at several sites in one shift with up to six contractor crews working throughout the City. The project was funded by special district property taxes that can only be used for street light operation and maintenance, as well as Gas Tax revenues.

Various Water Related CIP Projects, Southern CA

Construction Inspector responsible for performing daily inspections, administering contract documents, upholding code requirements, conducting weekly progress meetings, processing submittals, request for information and clarification, change orders and progress payments, coordinating with various agencies, utilities and residents, generating final punch lists, ensuring traffic control, monitoring the contractor's schedule, maintaining public relations and documenting the work via daily reports and digital photography. Projects included:

- City of Ontario – Installation of 17,440' of 24" CML/C pipe and 5,350' of 42" CML/C pipe, including boring operations under 60 freeway, Mission and Guasti Avenues railroad tracks
- City of Ontario – Construction of two pressure reducing stations
- Jurupa Community Services District – Installation of sewer lines, water mains and 1" copper services for 30 new tracts
- GSWC, West District, Gardena – Construction of two 1.5 MG steel tanks and yard piping including grading and footings

Construction Inspector, Various Locations, CA

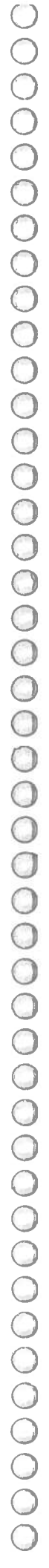
As Construction Inspector responsibilities included daily inspections, administering contract documents, upholding code requirements, conducting weekly progress meetings, processing submittals, request for information and clarification, change orders and progress payments, coordinating with various agencies, utilities and residents, earthwork calculations, generating the final punch list and monitoring the contractor's schedule. Maintained documentation of the work via daily reports, construction forms and digital photography. Projects included:

- City of San Juan Capistrano – Directional drilling construction of a 14" HDPE pipe under the San Juan Capistrano River
- City of San Juan Capistrano – On-call inspection for several CIP projects
- City of West Hollywood – La Cienega Boulevard and Melrose Avenue street paving

Public Work Projects, Orange County, CA

Construction Inspector that performed daily inspections, administered contract documents, upheld code requirements, conducted weekly progress meetings, processed submittals, RFI's and RFC's, change orders and progress payments, coordinated with agencies, utilities and residents, completed final punch lists, monitored construction schedule and documented the work via daily reports with City forms and job photos. Select projects included:

- City of Huntington Beach – Construction of a sewer lift station and 2,300' of 8" force main replacement
- City of Lake Forest – Overlay with asphalt, various residential streets



David Valenzuela, EIT

Senior Construction Inspector

Mr. Valenzuela is an experienced field engineer and construction inspector and has served on a variety of projects that include City and Public Agency facilities, street improvements, site infrastructure and pipelines. David's experience includes project management, project engineering, administration, cost controls, SWPPP inspection and field inspection. He communicates effectively to all members of a project team including the contractor, owner representatives and other consultants. He is able to create and evaluate detailed reports for budgets, cost analysts, change orders, submittals, RFI's and schedules. David's thorough understanding of construction processes enables him to be a valuable member of the team.

Cannery-Imperial Interim Storm Drain Improvements from Gilbert Street and Imperial Avenue to Garden Grove Boulevard and Cannery Street, City of Garden Grove, CA

Senior Construction Inspector for the \$3M installation of storm drains from Gilbert Street and Imperial Avenue to Cannery Street and Garden Grove Boulevard. This project is primarily comprised of constructing approximately 4,000' of storm drain and consists of: furnishing and installing 60", 48" and 36" dia. polypropylene pipe storm drain construction; sheeting, bracing and extensive shoring; dewatering; traffic control; furnishing/installing trench backfill with ¾" rock; constructing catch basins and local depressions; constructing manholes and junction structures; cross connections; removing existing and constructing approximately 480' of sewer line; constructing new sewer manholes with Sancon 100 lining; removing and reconstructing 4" sewer house laterals; removing existing and constructing new 280' of 12" PVC water line; water services replacement; cold mill existing AC approximately 41,000 sf to a depth of 2" deep; furnishing and installing aggregate base and asphalt paving; adjustment of utility covers to finish grade; reestablishment of centerline ties and survey monuments. Inspection duties include daily reports and photos, maintaining photo log, verification of quantities for monthly payments, public outreach, installation verification, track personnel, equipment and working hours, inspect and monitor traffic control measures, inspect and monitor SWPPP installations.

Euclid Street/Garden Grove Blvd/Woodbury Avenue Rehabilitations and Palmwood Sidewalks, City of Garden Grove, CA

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On-Call Inspection Projects, Elsinore Valley Municipal Water District, CA

On-Call Inspector for Elsinore Valley Municipal Water District developer projects. Responsibilities consisted of inspection of water and sewer installation and modifications for compliance with District standards and specifications. Specific projects included:

- 1467 Zone Pipeline Phases 3 & 4: Responsibilities consisted of inspection of 1800' of 20" and 4500' of 16" Ductile Iron Pipe for compliance with Elsinore Valley Water District design standards and standard drawings. Determined acceptability of material submittals based on District design standards and acceptable materials list. Produced daily inspector reports. Reviewed and confirmed quantities for processing of monthly pay applications. Tracked and recorded as-built information.
- EVMWD 7 CIP: As the Office/Field Engineer, responsibilities consisted of interpreting design/drawings and specifications. Researched and recommended resolutions to drawing interpretation problems, conflicts, interferences and errors. Reviewed contractor submittals, RFI's, and pay applications for conformance and accuracy. Managed the submittal and RFI process electronically. Verified all completed work complied with applicable codes, drawings, and specifications. Prepared and disseminated all required documentation records such as status reports, punch lists describing working items to be done, sketches of work already completed, material requirement calculations, etc., to supervisor. Provided technical support and direction of project material control functions including implementations and operation of maintenance program. Prepared drawings and sketches to support construction work, change orders,

Experience

19 years

Education

Construction Management, University of CA, Los Angeles

BS, Civil Engineering; California State Polytechnic University, Pomona

AS, Mathematics, Mount San Jacinto Community College

Registrations

Engineer-In-Training No. 162000

OSHA 30 Certified

Qualifications

Hec-Ras, ENERCALC Structural Design and Analysis Software, SAP2000



David Valenzuela, EIT

Senior Construction Inspector



estimates, etc. Represented company, project and/or department during client and project management meetings.
Monitored personal safety and that of fellow employees by following company health and safety guidelines and policies.
Performed additional assignments per supervisor's direction. Maintained as-builts.

San Jacinto RWRP Title 22 and Plant 2 Upgrade Project, Eastern Municipal Water District, CA

Additional tertiary treatment facilities for a capacity of 14.9 MGD annual average (15.4 MGD maximum per month), including a new pump at the existing filter influent pump station, two new flocculation basins with rapid mixing chamber, new tertiary filters, a new tertiary chemical building with alum and polymer systems (replaces the temporary chemical facility installed on the Emergency Filter project), one chlorine contact basin, a new utility water pump station, a new tertiary effluent pump station, a new effluent pump station electrical building, and tertiary effluent reservoir (ponds). The Plant 2 Facilities Project includes primary and secondary treatment and solids handling units expansion to 14.0 MGD annual average (15.4 MGD maximum per month). Responsibilities consisted of assisting Resident Engineers with weekly and monthly construction progress reports, processing of RFI's, shop drawing submittals and updating as-built information. Supported the review of weekly logs to assist the Construction Manager with contractor's schedule updates, and processed TIA's. Performed daily walk of project site and take photos to be used in reporting.

Noble Water Storage Tank No. 2 and Transmission Pipeline, Beaumont Cherry Valley Water District, Riverside County, CA

Project Manager for this project which alleviated the need for increased storage capacity to satisfy system demands created by near term development activity improvements included constructing a 2 MG Steel Storage tank at a high water level of 3040', constructing approximately 2,800' of 20" Ductile Iron Pipe transmission main, abandonment and demolition of the existing original Noble tank concrete pad located southerly of the existing Noble Tank No. 1 to make space for Noble Tank No. 2. Duties included ROW, existing utility research water line and storage tank design, specifications and engineer's estimate.

Various Projects, Eastern Municipal Water District, Riverside County, CA

In the maps and records department, served as a consultant where daily tasks included updating district GIS data per project revisions and new facilities currently in the process of construction. Maintained and updated EMWD as-built information, project mylars and GIS, based on project completion reports submitted by project inspectors. As a consultant for the maintenance department, assisted in producing accurate as-built electrical drawings for EMWD new and existing facilities. Drawings were produced using AutoCAD software, printed on mylar and scanned into district system.

Sewer Line Replacement Project, City of Hemet, CA

This \$8M capital improvements project included the replacement of approximately 825' of existing sewer mainline located in Central Avenue between Harvard Street and Buena Vista Street. Work performed included the removal of a portion of existing sewer main, abandonment of a portion of existing sewer main, installation of new 8" PVC sewer main, removal and replacement of existing sewer laterals, and removal of existing manholes and construction of new manholes. Performed Right-of-Way (ROW) and existing utility research associated with the design and construction of this sewer main replacement design. Drafted project specifications and provided engineer's estimate. Performed water system analysis. Produced flood plain management plans based on survey data obtained in the field. Completed structural analysis, calculations and plans.

Stetson Bridge Replacement Project, City of Hemet, CA

Resident Engineer on this \$1M project which consists of removing and replacing an existing two lane, two-way bridge, railing and approach barrier including slope protection and roadway approach reconstruction. Duties included tracking and maintaining project files, submittal reviews, inspections, processing change orders, progress payments and contract administration.

Riverside County Fire Department Administration Center Improvements, Riverside County Economic Development Agency, CA

As the Project Manager, managed and performed design processes for grading plans, developed WQMP and SWPPP documents, processed change orders, specifications, and provided engineer's estimate.

Cactus II Feeder, Eastern Municipal Water District, Riverside County, CA

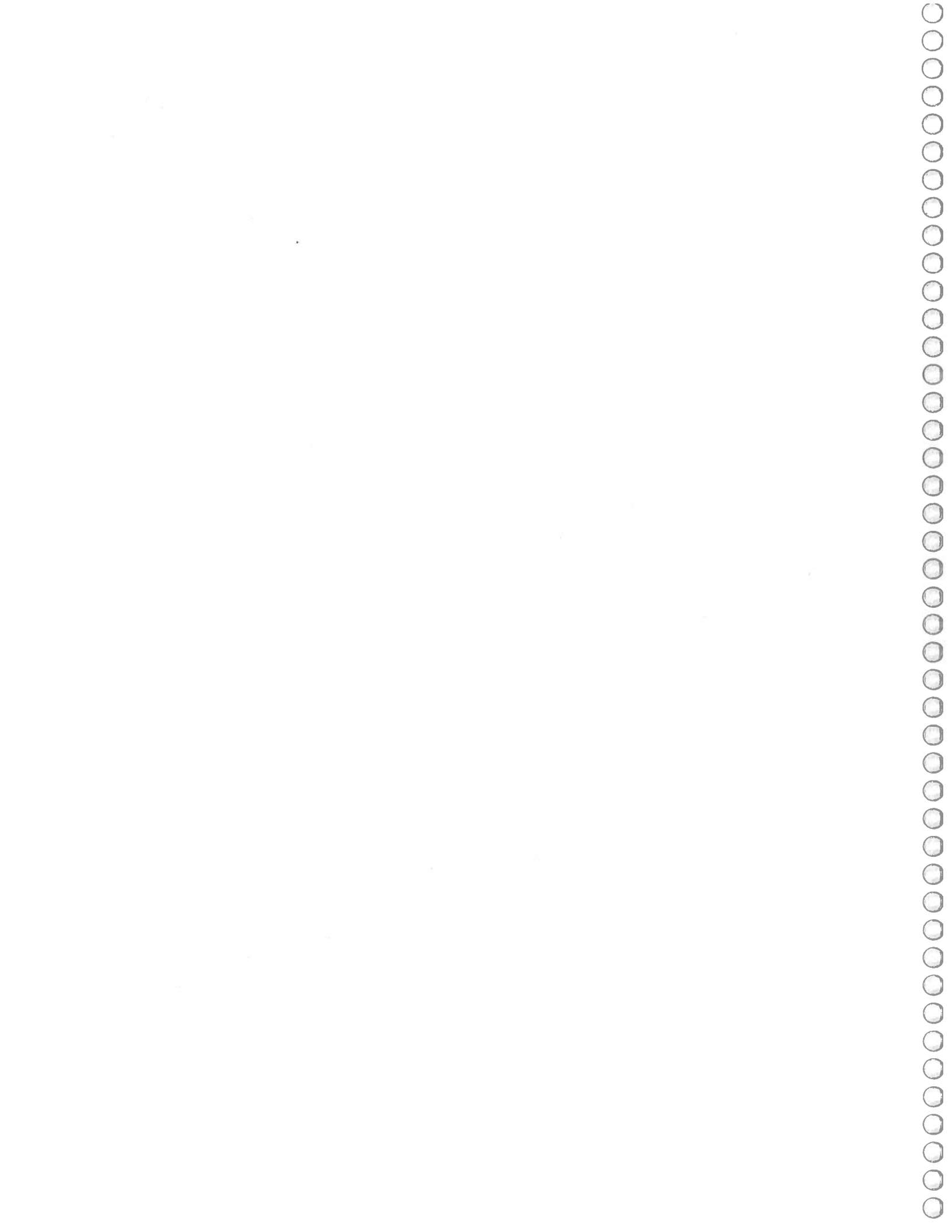
ROW and existing utility research on this project which involved the construction of approximately 8,100 lf of 42" diameter welded steel (CML&C) pipe. The construction included two flow control turnout facilities. Construction also included installation of 1,700' of 36" pipeline along Perris Boulevard north of Alessandro Boulevard and the installation of 1,000' of 12", 1764 PZ distribution pipeline to accommodate turnouts and a pressure zone conversion.

Perris Fairground Sewer/Siphon Replacement, Eastern Municipal Water District, Riverside County, CA

ROW, existing utility research and sewer design.

Ramsey and Hargrave Street Improvement and Water Plan, City of Banning, CA

Street improvement design, prepare project specifications, water system design, ROW and utility research.



David Valenzuela, EIT

Senior Construction Inspector



Concrete Sewer Rehabilitation Program, City of South Gate, CA

As Project Manager for engineering services, provided engineering services for a three-year prioritized program for rehabilitation of the City's sewer system. This phase of the sewer rehabilitation was funded by a South Gate Water Authority \$30M bond issue and will encompass the repair, replacement, and rehabilitation of approximately 320,000' of concrete sewer pipe.

Central Avenue Sewer Main Replacement Plan, City of Hemet, CA

This \$300K project included the replacement of approximately 825' of existing sewer mainline located in Central Avenue between Harvard Street and Buena Vista Street. Work performed included the removal of a portion of existing sewer main, the abandonment of a portion of existing sewer main, installation of new 8" PVC sewer main, removal and replacement of existing sewer laterals, and the removal of existing manholes and construction of new manholes.

Various Capital Improvements Projects, Elsinore Valley Municipal Water District/Valley Sanitary District, CA

Office/Field Engineer for EVMWD and VSD. Performed project close-out for EVMWD Capital Improvement Projects. Produced contract record drawings, compiled and submitted all project deliverables. Performed project bid analysis for Valley Sanitary District Requa Interceptor Project. Performed contractor reference verifications, project quantity verification, produced project Resident Engineers Manual and produced bid item log comparing all contractor bids to be used in analysis.

