

**Agreement for Professional Services
Mission Springs Water District
66575 Second Street
Desert Hot Springs, CA 92240
Telephone 760-329-6448 – FAX 760-329-2482**

For your protection, make sure that you read and understand all provisions before signing. The terms on pages 2 - 5 are incorporated in this document and will constitute a part of the agreement between the parties when signed.

TO: **TKE Engineering, Inc.
2305 Chicago Avenue
Riverside, CA 92507**

DATE: _____

PROJECT DIR#: N/A

TITLE: **Civil Engineering and Roadway Design Services on Avenue 19,
Avenue 20, and Little Morongo Road**

The undersigned Consultant agrees to furnish the following:

All Work/Services per the attached Exhibit A – Proposal provided by TKE Engineering, Inc., and per Exhibit B – Term, Early Termination & Notice

Contract price \$: Not to Exceed \$296,886.00

Term: **Eighteen (18) months from the effective Agreement DATE above**

Instructions: Sign and return via email. Upon acceptance by Mission Springs Water District, a copy will be signed by its authorized representative(s) and promptly returned to you. Insert the names of your authorized representative(s) below.

Accepted:
 Mission Springs Water District

Consultant:
 TKE Engineering, Inc.
(Business Name)

By: Arden Wallum

By: Steve Ledbetter

Title General Manager

Title Vice President

Other authorized representative(s):
 Brian Macy
Assistant General Manager

Other authorized representative(s):

Engineering Manager

Consultant agrees with the Mission Springs Water District that:

- a. When the law establishes a professional standard of care for Consultant's services, to the fullest extent permitted by law, Consultant will immediately defend, indemnify and hold harmless Mission Springs Water District, its directors, officers, employees, and authorized volunteers from all claims and demands of all persons that arise out of, pertain to, or relate to the Consultant's negligence, recklessness, or willful misconduct in the performance (or actual or alleged non-performance) of the work under this agreement. Consultant shall defend itself against any and all liabilities, claims, losses, damages, and costs arising out of or alleged to arise out of Consultant's performance or non-performance of the work hereunder and shall not tender such claims to Mission Springs Water District nor to its directors, officers, employees, or authorized volunteers, for defense or indemnity.
- b. Other than in the performance of professional services, to the fullest extent permitted by law, Consultant will immediately defend, indemnify and hold harmless Mission Springs Water District, its directors, officers, employees and authorized volunteers from all claims and demands of all persons arising out the performance of the work or furnishing of materials; including but not limited to, claims by the Consultant or Consultant's employees for damages to persons or property except for the sole negligence or willful misconduct or active negligence of Mission Springs Water District, its directors, officers, employees, or authorized volunteers.
- c. By his/her signature hereunder, Consultant certifies that he/she is aware of the provisions of Section 3700 of the California Labor Code which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and that Consultant will comply with such provisions before commencing the performance of the professional services under this agreement. Consultant and sub-consultants will keep workers' compensation insurance for their employees in effect during all work covered by this agreement.
- d. Consultant will file with Mission Springs Water District, before beginning professional services, a certificate of insurance satisfactory to Mission Springs Water District evidencing professional liability coverage of not less than \$1,000,000 per claim and \$2,000,000 annual aggregate, that coverage shall not be cancelled except with notice to Mission Springs Water District. Coverage is to be placed with a carrier with an A.M. Best rating of no less than A-: VII, or equivalent, or as otherwise approved by Mission Springs Water District. The retroactive date (if any) is to be no later than the effective date of this agreement. Consultant shall maintain such coverage continuously for a period of at least five (5) years after the completion of the contract work. Consultant shall purchase a five-year extended reporting period i) if the retroactive date is advanced past the effective date of this Agreement; ii) if the policy is canceled or not renewed; or iii) if the policy is replaced by another claims-made policy with a retroactive date subsequent to the effective date of this Agreement. In the event that the Consultant employs other consultants (sub-consultants) as part of the work covered by this agreement, it shall be the Consultant's responsibility to require and confirm that each sub-consultant meets the minimum insurance requirements specified above.
- e. Consultant will file with Mission Springs Water District, before beginning professional services, certificates of insurance (Acord Form 25 or equivalent) satisfactory to Mission Springs Water District evidencing

Coverage – Coverage for commercial general liability and automobile liability insurance shall be at least as broad as the following:

1. Insurance Services Office (ISO) Commercial General Liability Coverage (Occurrence Form CG 0001)
2. Insurance Services Office (ISO) Business Auto Coverage (Form CA 0001), covering Symbol 1 (any auto)

Limit – The consultant shall maintain limits no less than the following:

General liability - coverage of not less than two million (\$2,000,000) per occurrence or the full per occurrence limits of the policies available, whichever is greater for bodily injury, personal injury and property damage; (\$4,000,000 general and products-completed operations aggregate (if used)).

1. Auto liability - One million dollars \$1,000,000 for bodily injury and property damage each accident limit.
2. Workers' compensation (statutory limits) and employer's liability (\$1,000,000) (if applicable).

Required Provisions –

- The general liability coverage shall give Mission Springs Water District, its directors, officers, employees (collectively the District), and authorized volunteers insured status (via ISO endorsement at least as broad as CG 2010 1185 or **both** CG 20 10 plus CG 20 37 if a later edition is used) specifically naming the Mission Springs Water District, its directors, officers, employees, or authorized volunteers; or using the language that states "as required by written contract."
 - Workers Compensation Insurance – As required by the State of California with limits of no less than \$1,000,000 per accident for bodily injury or disease. Waiver of Subrogation: The insurer(s) agree to waive all rights of subrogation against the Mission Springs Water District, its elected or appointed officers, officials, agents, authorized volunteers, and employees for losses paid under the terms of this policy which arise from work performed by the named insured for the Mission Springs Water District, but this provision applies regardless of whether or not the Mission Springs Water District has received a waiver of subrogation.
 - The general liability coverage is to state or be endorsed (with as broad as ISO endorsement CG 20 01 04 13) to state "such insurance shall be primary and any insurance, self-insurance or other coverage maintained by Mission Springs Water District, its directors, officers, employees, or authorized volunteers shall not contribute to it".
 - Coverage is to be placed with a carrier with an A.M. Best rating of no less than A- VII, or equivalent, or as otherwise approved by Mission Springs Water District.
 - The coverage shall contain no special limitations on the scope of protection afforded to Mission Springs Water District, its directors, officers, employees, or authorized volunteers.
 - In the event that the Consultant employs other consultants (sub-consultants) as part of the work covered by this agreement, it shall be the Consultant's responsibility to require and confirm that each sub-consultant meets the minimum insurance requirements specified above.
- f. If any of the required coverages expire during the term of this agreement, the Consultant shall deliver the renewal certificate(s) to Mission Springs Water District at least ten (10) days prior to the expiration date.
- g. Consultant shall not accept direction or orders from any person other than the General Manager or the person(s) whose name(s) is (are) inserted on Page 1 as "other Authorized Representative(s)."
- h. Payment, unless otherwise specified on Page 1, is to be within thirty (30) days after acceptance by Mission Springs Water District.
- i. Professional permits required by governmental authorities will be obtained at Consultant's expense, and Consultant will comply with applicable local, state, and federal regulations and statutes including but not limited to Cal/OSHA requirements.
- j. Any change in the scope of the professional services to be done, method of performance, nature of materials or price thereof, or to any other matter materially affecting the performance or nature of the professional services will not be paid for or accepted unless such change, addition or deletion is approved in advance, in writing by a supplemental agreement executed by Mission Springs Water District. Consultant's "Authorized Representative(s)" has (have) the authority to execute such written change for Consultant.

- k. Unless otherwise agreed upon in writing, all reports, documents, or other written material, including any documents, images, photographs, video files, or other media created or developed by Consultant as part of the services required hereunder ("Written Products") shall be considered to be "works made for hire", and all Written Products and any and all intellectual property rights arising from their creation, including, but not limited to, all copyrights and all other proprietary rights, shall be and remain the property of Mission Springs Water District without restriction or limitation upon their use, duplication or dissemination by Mission Springs Water District, except as otherwise provided herein. Consultant shall not obtain or attempt to obtain copyright protection as to any of the Written Products.
- l. Consultant hereby assigns to Mission Springs Water District all ownership and any and all intellectual property rights to the Written Products that are not otherwise vested in Mission Springs Water District pursuant to section above.
- m. Consultant shall not disclose, publish, or authorize others to disclose or publish, design data, drawings, specifications, reports, or other information pertaining to the projects assigned to the Consultant by the Mission Springs Water District or other information to which the Consultant has had access during the term of this Agreement without the prior written approval of an Authorized Representative during the term of this Agreement. Consultant's covenant under this section shall survive the termination of this Agreement.
- n. Consultant shall maintain complete and accurate records with respect to sales, costs, expenses, receipts, and other such information required by the Mission Springs Water District or the Authorized Representative. The Consultant shall maintain adequate records on services provided in sufficient detail to permit an evaluation of service. All such records shall be maintained in accordance with generally accepted accounting principles and shall be clearly identified and readily accessible. At all times during regular business hours, Consultant shall provide access to such books and records to the Authorized Representative or his or her designees and shall give the Authorized Representative or his or her designees the right to examine and audit such books and records and to make transcripts as necessary, and shall allow inspection of all work, data, documents, proceedings, and activities related to this Agreement.
- o. This Agreement is personal to the Consultant. Any attempt to assign or subcontract any right or obligation hereunder by the Consultant shall be void unless approved in writing in advance by the Authorized Representative. Consultant's services pursuant to this Agreement shall be provided by the representative or directly under the supervision of the representative and Consultant shall not assign another to supervise the Consultant's performance of this Agreement without the prior written approval of the Mission Springs Water District, by and through the Authorized Representative.
- p. Consultant shall not maintain, commit, or permit the maintenance or commission of any nuisance in connection with the performance of services under this Agreement.
- q. Consultant agrees to be familiar with and comply with all applicable federal, state, and local conflict of Interest laws, including, but not limited to, the Political Reform Act (California Government Code Sections 81000, et seq.) and California Government Code Section 1090. During the term of this Agreement, Consultant shall retain the right to perform similar services for other clients, but Consultant and its officers, employees, associates, and subcontractors shall not, without the prior written approval of the Authorized Representative, perform work for another person or entity for whom Consultant is not currently performing work that would require Consultant or one of its officers, employees, associates or subcontractors to abstain from a decision under this Agreement pursuant to a conflict-of-interest statute.
- r. A waiver by the Mission Springs Water District of any breach of any term, covenant, or condition contained in this Agreement shall not be deemed to be a waiver of any subsequent breach of the same or any other term, covenant, or condition contained in this Agreement whether of the same or different character.

- s. The Consultant shall commence, carry on, and complete all required tasks with all practicable dispatch, in a sound, economical, and efficient manner in accordance with all applicable laws and generally accepted industry standards.
- t. No Third-Party Beneficiaries. The Mission Springs Water District shall not be obligated or liable under this Agreement to any party other than the Consultant.
- u. In no event shall the making by the Mission Springs Water District of any payment to the Consultant constitute or be construed as a waiver by the Mission Springs Water District of any breach of covenant, or any default which may then exist, on the part of the Consultant, and the making of any such payment by the Mission Springs Water District while any such breach or default shall exist shall in no way impair or prejudice any right or remedy available to the Mission Springs Water District with regard to such breach or default.
- v. If any legal action is necessary to enforce any provision of this Agreement or for damages by reason of an alleged breach of any provisions of this Agreement, the prevailing Party shall be entitled to receive from the losing Party all costs and expenses in such amount as the courts may determine to be reasonable. In awarding the cost of litigation, the court shall not be bound by any court fee schedule, but shall, if it is in the interest of justice to do so, award the full amount of costs, expenses, and attorneys' and experts' fees paid or incurred in good faith.
- w. In the performance of the work required by this Agreement, Consultant shall abide by and conform with and to any and all applicable laws of the United States and the State of California, and with the local County and Municipal Code, ordinances, regulations and policies.
- x. If any part, term, or provision of this Agreement shall be held illegal, unenforceable, or in conflict with any law of a federal, state, or local government having jurisdiction over this Agreement, the validity of the remaining portions or provisions shall not be affected by such holding.
- y. The terms of this Agreement shall be interpreted according to the laws of the State of California. Should litigation occur, venue shall be the Superior Court of Riverside County, California.
- z. This Agreement represents the entire Agreement between the Mission Springs Water District and Consultant with respect to the subject matter hereto and supersedes all prior oral or written negotiations, representations, or agreements. No verbal agreement or implied covenant shall be held to vary the provisions of this Agreement. This Agreement shall bind and inure to the benefit of the parties to this Agreement and any subsequent successors and assigns. In the event of any inconsistency between the provisions of this Agreement and Consultant's proposal or Quote, and Exhibits hereto, the provisions of this Agreement shall control.
- aa. Precedence of Exhibits. All documents referenced as exhibits in this Agreement are hereby incorporated in this Agreement. In the event of any material discrepancy between the express provisions of this Agreement and the provisions of any document incorporated herein by reference, the provisions of this Agreement shall prevail.
- bb. Consultant will act hereunder as an independent contractor. This agreement shall not and is not intended to constitute Consultant as an agent, servant, or employee of the Mission Springs Water District and shall not and is not intended to create the relationship of partnership, joint venture or association between the Mission Springs Water District and Consultant.
- cc. Each of the signatories herein hereby represents that he or she has the authority to execute the Agreement on behalf of his or her contracting party.

EXHIBIT A

REQUEST for PROPOSAL

CIVIL ENGINEERING AND ROADWAY DESIGN SERVICES
ON 19TH AVE., 20TH AVE., AND LITTLE MORONGO
ROAD - REGIONAL WATER RECLAMATION FACILITY



for:

MISSION SPRINGS WATER DISTRICT
66575 Second Street
Desert Hot Springs, CA 92240



July 1, 2022

Prepared by:



2305 Chicago Avenue
Riverside, California 92507
(9 5 1) 6 8 0 - 0 4 4 0



July 1, 2022

Eric Weck, P.E., Engineering Manger
Mission Springs Water District
29844 Haun Road
Menifee, CA 92586

Subject: Proposal for Civil Engineering and Roadway Design Services on 19th Ave., 20th Ave., and Little Morongo Road – Regional Water Reclamation Facility

Dear Mr. Weck:

Thank you for the opportunity to present this material outlining TKE Engineering, Inc. (TKE's) qualifications. Enclosed herein are our qualifications to provide Civil Engineering Street Improvement Design Services for the Mission Springs Water District (MSWD).

Why should the District choose TKE to provide engineering design consulting services? Please consider the following:

1. Firm Identification – TKE, a California Corporation, is a full service, multi-disciplinary consulting corporation located at 2305 Chicago Avenue, Riverside, California 92507 and can be found online at www.tkeengineering.com. We have 22 years of experience with providing design services for street improvement projects to public agencies and are highly qualified to perform the services necessary for project delivery. We are enthusiastic about the opportunity to assist MSWD in bettering the infrastructure around the Regional Water Reclamation Facility.

2. Key Contact – Terry Renner, P.E., Q.S.D., Principle In-Charge, is an authorized signatory of the firm and will be TKE's contact person for the duration of the proposal evaluation and contract. He can be reached by telephone at (951) 680-0440, fax at (951) 680-0490 and e-mail at trenner@tkeengineering.com.

3. Our Team – MSWD will benefit greatly by continuing the vision, leadership, and dedication to community exhibited by TKE's project team. Our experience in the region, numerous accomplishments and management skills will help maintain continuity with MSWD staff and community residents, while avoiding potential conflicts in the delivery of MSWD's project. In particular, Octavio Parada, Project Manager and Justin Schlaefli, P.E., T.E., P.T.O.E., Project Engineer, have a vast amount of experience with all aspects of street improvement projects and their experience extends from project planning to design and extend through bidding and construction. Their excellent project management skills will provide a great benefit to MSWD, in particular, their experience with "cutting edge" creative engineering techniques focused on cost control, ensuring that projects provide the maximum value for the public's investment. TKE has contracted with Aragon Geotechnical Inc. for geotechnical services and UltraSystems for environmental services. TKE has developed an excellent working relationship with our subconsultants that allows our team to seamlessly provide MSWD a full range of project services.

4. Our Experience and Qualifications – TKE is a full-service, multi-disciplinary firm with direct experience related to the proposed street improvement project and a wide range of experience in street improvement, sidewalk and drainage projects. TKE's history with the RWRP, MSWD, City of Desert Hot Springs staff and broad range of successful services includes turnkey program and project management and delivery for a diverse array of street design projects, which will help keep this project design on schedule. MSWD benefits from our broad range of experience through our intimate understanding of the common pitfalls for each project variation and our past history of successfully overcoming these challenges.

5. Our Commitment – TKE is committed to providing high quality, efficient services to meet all of MSWD’s needs. Prior to beginning any services, TKE will meet to discuss project requirements and scheduling needs. Our Project Manager will be in contact with MSWD staff each week to ensure that we are progressing on schedule and are within our allocated budget. It is this personal touch and contact that define our “local service” approach. We consider ourselves community builders and take ownership of projects assigned to TKE, ensuring that our personnel will be allocated on an as needed basis.

Our broad array of services and team provide MSWD a trusted consultant to turn to for this challenging project. We pride ourselves in the management and completion of special, atypical projects and thrive on challenging budgets and deadlines. It is this commitment to service and diverse array of offerings that makes us unique and drives our long-standing relationship with our client base and it is these qualities that make us “the right fit” for MSWD.

7. Our Value – TKE’s management team and staff are fundamentally committed to creating value in each task that we perform. As such, we have created a professional culture wherein each member of our staff constantly strives for increased efficiency, ultimately allowing us to provide highly professional services at competitive rates.

8. Proposal Validity – TKE’s proposal shall remain valid for a period of 120 days from the date of submittal.

9. Conflicts – TKE has no conflicts of interest that may arise from this engagement.

10. Proposed Contract Agreement Modifications - TKE takes no exceptions or modifications to any documents provided by MSWD related to the Request for Proposal.

Thank you for your consideration. TKE would very much appreciate the opportunity to continue working with MSWD. If you have any questions, please call me at (951) 680-0440 or e-mail me at trenner@tkeengineering.com.

Sincerely,



Terry Renner, P.E., Q.S.D.
Senior Vice President
TKE Engineering Inc.

Technical Proposal

Section A: Cover Letter

Section B: Background and Understanding

Section C: Personnel Qualifications

Section D: Experience and References

Section E: Firm Resources

Section F: Rate Schedule (In a Separate File)

WELCOME
TO THE
MSWD
TEAM!



Prepared for:



Mission Springs Water District

66575 Second Street

Desert Hot Springs, CA 92240

Contact: Eric Weck, P.E., Engineering
Manager

Phone: (760) 329-6448 ext. 125

E-mail: eweck@mswd.org

Prepared by:



TKE Engineering, Inc.

2305 Chicago Avenue

Riverside, CA 92507

Contact: Terry Renner, P.E., Q.S.D., Senior
Vice President

Phone: (951) 680-0440

Fax: (951) 680-0490

E-mail: trenner@tkeengineering.com

TKE Engineering, Inc. | AT A GLANCE



City/District Engineer

TKE is the City District Engineer in 10 Cities/Districts



Staff Augmentation

TKE currently provides Staff Augmentation in 10 Cities / Counties / Districts



Municipal On-Call Contracts

TKE currently provides Civil Engineering Design, Project Support, and Survey services for more than 30 Cities / Counties / Districts throughout Southern California



Size of Organization

45 Professional Engineers, Project Managers, Surveyors, Plan Checkers, Inspectors, Designers, Construction Managers, and Support Staff



Location of Office

TKE Engineering, Inc.
2305 Chicago Avenue
Riverside, CA 92507



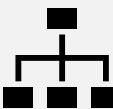
Years in Business

TKE has conducted business for the past 22 years and has 22 years of experience in providing street widening and design services for municipal client projects



Company Structure

TKE is a California Corporation founded in June 2000. TKE has no affiliates or subsidiary companies. California Business License Number: 00109901
TKE DIR No. 1000413173



Firm Owners

Michael P. Thornton, P.E., P.L.S., M.S. – President
Terry Renner, P.E., Q.S.D. – Senior Vice President
Steven W. Ledbetter, P.E. Vice President



Mission Spring Water District Point of Contact

Terry Renner, P.E., Q.S.D.
Senior Vice President
2305 Chicago Avenue
Riverside, CA 92507
Phone: (951) 680-0440
Email: trenner@tkeengineering.com

SECTION B | BACKGROUND AND UNDERSTANDING

1. FIRM BACKGROUND

TKE Engineering, Inc. (TKE), a California Corporation, was established in 2000, and in the last 22 years has developed into one of Southern California's premier full-service consulting engineering, surveying and construction management firms. TKE was established with the goal of providing turnkey services for municipal projects in order to benefit our community. As a result of the focus of a firm on this mission, TKE has earned a reputation for thoroughness, rapid turnaround, cost efficiency and overall quality of work. We are a highly motivated, dynamic firm with the goal of being your preferred consultant. TKE has been providing design and survey services to municipalities for street improvement projects for the past 22 years.

TKE provides turnkey design and survey services to numerous municipalities throughout Riverside, San Bernardino, and Los Angeles Counties. TKE routinely provides the following municipal services: Project Development, CIP Design, Surveying, Traffic Engineering, Project Management, Plan and Map Checking, Program Management, construction management, inspection, Utility Company Coordination and Management, Public Outreach, Grant Funding, CDBG, HUD and Federally/State Funded Project Management, and Construction Surveying services. Our wide range of services and history with Mission Springs Water District (MSWD) provides our team with an intimate knowledge and experience of the common pitfalls associated with each project variation and our past history of successfully overcoming these challenges. This allows our team to provide quick and efficient decisions to be made related to design, which helps to reduce the potential for delays and keeps the project on schedule.

TKE is currently providing construction management and inspection services on the RWRP treatment plant and sewer project and is committed to providing high quality, comprehensive services to meet all of MSWD's needs. TKE's Project Manager will be in contact with MSWD staff and our subconsultants weekly to ensure that the project is progressing on schedule

and within the allocated budget. It is this personal touch and contact that define our “local service” approach. We consider ourselves community builders and take ownership of projects assigned to TKE, ensuring that our personnel are highly trained and active to keeping the design on schedule and the project within budget using our superior communication and management skills.

Our experience with MSWD and in the low desert region, transportation expertise, communication skills, numerous accomplishments, as well as management skills, will help maintain continuity in the delivery of MSWD’s project. TKE takes a team approach to all projects and emphasizes the importance of constant communication between all members of the team, from the client to the contractor and other consultants.

FINANCIAL CONDITION

TKE’s organizational structure has steadily grown since our inception 22 years ago, which provides us with a solid foundation and ensures successful completion of this project. In TKE’s 22 years of business, not a single TKE project has gone through litigation. TKE has an annual gross revenue of more than \$10 million and there are no financial conditions that may impede TKE’s ability to provide services, or complete any projects as outlined in the RFP and Professional Services Agreement. No conditions or organizational conflicts of interest exist that will affect the ability of TKE to perform the required duties as described in this proposal.

3. PROJECT UNDERSTANDING

The District is currently in construction for their Regional Water Reclamation Project, consisting of the Regional Water Reclamation Facility (RWRf), the Regional Conveyance Trunk Sewer, and the Area M2 Collection System. The District’s success with its Groundwater Quality Protection Program has driven the need for additional wastewater treatment capacity. The RWRf is a high priority, landmark project for the District and providing safe and efficient access to the RWRf is of the utmost importance to its overall success. In addition, the RWRf will serve as a showcase facility for other agencies and manufacturers due to its innovative features. The RWRf is located in an undeveloped

industrial area and is only accessible via unmaintained dirt road off of Dillon Road to the north and 20th Avenue to the west. The proposed roadway design will span the north, west, and east boundary of the RWRf, tying in with adjacent industrial development projects to provide an overall completeness to the project and surrounding industrial areas. TKE has been intricately involved with the Regional Water Reclamation Project development, design, and construction, including project management, construction management, and grant funding acquisition and administration. We appreciate the opportunity to parlay our unmatched project understanding and street project delivery success for the District.

The District is requesting qualified consultants to partner with to provide professional roadway design services and complete a bid ready design package by July 2023. TKE has extensive experience with an excellent reputation in both the design of and construction support of street widening improvement projects. Throughout our history of 22 years serving Southern California, we have provided design and construction support services for over 100 miles of street widening, pedestrian enhancements and drainage facility projects. We have successfully completed complex and challenging projects for a variety of municipal agencies who have continued to request that we partner with them in delivering projects to their communities. Our street and drainage improvement projects have included the full services of civil engineering design, including coordination with environmental, appraisal, acquisition, geotechnical, landscape, electrical, and structural engineers, multiple stakeholders (i.e. City and County), and other consultants necessary for the completion of challenging projects. We are sure that the successful results of our past performance in the delivery of street improvement projects, along with our firm’s proven ability to utilize our experience for a complete and well-engineered project, will provide a valuable resource to the District.

Because of the current budgetary constraints, we understand the importance of maximizing the amount of improvements that can be built with available funding. TKE accomplishes this through creative engineering techniques and a collaborative effort between the public agencies and the

community. Our team has demonstrated the ability to build project coalitions time and time again.

Finally, it doesn't matter how much community support that's developed if the project isn't delivered! We understand how important time and budget are to this project. The District needs the right partner, with a proactive approach to project completion, to ensure the successful timing and completion the proposed roadway project.

PROJECT MANAGEMENT

Project management is the most critical element for successful completion of any design project and is especially important for this project since we will be coordinating with subconsultants for environmental compliance, regulatory permitting and utility coordination/relocations on a tight schedule.

TKE provides effective project management services to a variety of clients. We have successfully delivered extensive and highly visible street improvement, street widening and drainage improvement projects throughout Southern California and more particular Riverside County. TKE's approach has consistently allowed our partner agencies to fulfill their missions of delivering the best value for the public' investment.

TKE's management approach includes:

- △ **Monthly Progress Reports**-TKE documents project progress for all project assigned to TKE by a comprehensive project management summary. The summary includes project name and related number, description of progress, budget status, schedule compliance, and anticipated upcoming accomplishments.
- △ **Communication**-communications with agencies' staff and subconsultants is another important component to effective project management. In addition to the monthly progress reports, TKE meets with clients and other agencies staff as needed to ensure the projects are proceeding as anticipated. We document each discussion or meeting with notes and electronically mail them to the project team within three days of the meeting/conference indicating action items and a schedule for completion of these items.
- △ **Record Keeping**-TKE keeps records in an organized filing system both in electronic

forms. This organized filing system allows TKE to access records immediately should they be needed.

- △ **Team Meeting**-Team meetings include all subconsultants and City parties that have any interest in the project development. In particular, the City of Desert Hot Springs Engineering and Planning Department will be a close working partner with TKE and our subconsultants in development of project processing and environmental compliance. TKE routinely develops working partnerships with members of City engineering and planning staff and will effectively work with them to complete expediting project processing.
- △ **Public Meetings**-TKE meets with project stakeholders as needed including City Council, the public, permitting agencies, utilities, etc. We meet with them at the project's onset and throughout the course of project development to ensure all stakeholder project needs are considered in the project design. All meeting preparation (City Staff Reports, agendas, exhibits, slide shows, etc.) will be prepared by TKE for each meeting. Again, meetings will be documented. TKE has provided numerous similar presentations to Councils (closed sessions, council meetings, community meetings, etc.).

CIVIL ENGINEERING

TKE's Civil Engineering projects have included:

- △ Transportation Infrastructure Funding, Planning, Design, Bidding and Construction
- △ ADA Experts for Pedestrian Facility Improvements (CBC 11B-Division 4)
- △ Pavement Rehabilitation Strategy Analysis and Implementation
- △ Drainage Infrastructure Funding, Planning, Design, Bidding and Construction
- △ Hydrologic Studies/Hydraulic Design
- △ Storm Water Pollution Prevention Plans (SWPPP)
- △ Sediment and Erosion Control Facilities
- △ Hydromodification Studies/Water Quality Management Plans (WQMPs)

- △ Water, Sanitary Sewer and Recycled Water Infrastructure Funding, Planning, Design, Bidding and Construction
- △ Sewer and Water System Hydraulic Analysis

- △ Project website design and construction
- △ Project collateral materials (brochures, presentation boards, etc.)
- △ Graphic design

SURVEYING / MAPPING / RIGHT-OF-WAY ENGINEERING

TKE provides Land Analysis services for many projects:

- △ Public Improvements (major or minor)
- △ Land and Real Estate Developments

Our Surveying and Mapping experts provide these services:

- △ Construction Layout/Staking
- △ Right-of-Way Engineering
- △ Boundary Surveys
- △ Construction Surveys
- △ Design Surveys
- △ Legal Description Surveys
- △ Aerial Mapping
- △ A.L.T.A. Surveys
- △ Topographic Surveys
- △ Control Surveys
- △ Easement Surveys

COMMUNITY OUTREACH / PUBLIC RELATIONS

Depending on the District's needs, TKE's strategies are designed to reach, inform and involve constituents and stakeholders of planning proposals, projects and programs. If requested, we can provide opportunities for interested parties to comments, enabling actionable analysis of feedback received. TKE's outreach methods result in building greater consensus and public buy-in. Services include the design, planning and execution of:

- △ Marketing campaigns
- △ Public information meetings/Groundbreaking ceremonies
- △ Project branding

QUALITY ASSURANCE / QUALITY CONTROL

TKE takes pride in our reputation for thoroughness, rapid turnaround, cost efficiency and overall quality of work, and believes that a high level of quality is needed on all PS&E packages. High quality design yields the following tangible results:

- △ Ease of oversight
- △ Smoother processing
- △ Healthy number of bidders
- △ Consistent bids
- △ Minimized construction support cost
- △ Absence of design-related change orders
- △ Reduced claims and dispute resolution costs

TKE believes that the most successful quality assurance program is one that is applied inherently throughout the entire design process and all design activities. This program requires not only formal procedures for checking, but encourages the conscientious effort of experienced people to always "create quality" in every task performed throughout the design process.

This program has become a natural element in all aspects of TKE's design and management activities, and will guide our work on this contract:

- △ Staff training and development
- △ Assignment of experienced staff
- △ Continuity of staffing
- △ Project-specific work plan
- △ Schedule compliance
- △ Comprehensive field review and compilation of site data
- △ Established design procedures
- △ Established detailing standards
- △ Established checking procedures, including independent in-house QA/QC review
- △ Dual (independent) quantity estimates

△ Review by Constructability expert

This Quality Assurance/Quality Control program is in place to ensure that PS&E documents prepared by TKE continue to exceed the standards of our clients and that we will deliver the project on schedule and within budget.

4. SUBCONSULTANTS

TKE has acquired the services of Aragón Geotechnical, Inc. to provide geotechnical investigation, and UltraSystems for environmental services. All other design requirements will be provided by TKE.



Aragón Geotechnical Inc.

(AGI) is a highly qualified geotechnical and construction materials testing firm with significant experience in providing services similar to those being requested. AGI is committed to providing geotechnical, materials testing, and construction field inspection services with a superior degree of professional excellence and proficiency. They offer clients individual attention and provide innovative solutions at a competitive cost.

AGI traces its roots to the year 1973, followed soon after by the establishment of the present headquarters office in the Woodcrest area of Riverside County. The firm will apply decades of experience acquired by talented professionals in the fields of geotechnical engineering, engineering geology, hydrogeology, earthquake engineering, and materials engineering and testing to the project team. Their staff regularly attends scientific conferences and specialty training sessions to stay abreast of cutting-edge technologies and new developments in our disciplines.



UltraSystems

environmental • management • planning

UltraSystems is a full-service planning and environmental consulting firm serving public and private sector clients throughout California. Their 42 employees bring a broad range of expertise and extensive experience to our preparation of environmental documents and technical studies under the California Environmental Quality Act (CEQA) of 1970 and attendant State CEQA Guidelines, both as amended, along with helping public agencies and private concerns comply with

environmental laws, regulations, and permits. Since our inception in 1994, they have successfully prepared more than 7,000 environmental compliance documents pursuant to CEQA and the National Environmental Policy Act (NEPA), as well as engineering studies and focused technical reports. They are confident that our extensive project management experience, coupled with our senior-level in-house professional and technical resources, will bring the kind of management and technical expertise required to meet or exceed the needs of the City of Menifee.

UltraSystems approaches the preparation of each environmental or technical document with an emphasis on quality, thoroughness of analysis, and rigorous oversight. They offer our clients proactive solutions that emphasize the anticipation and resolution of environmental issues early in the planning process, when the applicant has the greatest flexibility to design the project in a way that avoids or minimizes costly permitting and mitigation requirements.

UltraSystems employs a multidisciplinary team of talented and highly experienced urban and environmental planners, scientists, archaeologists, biologists, geologists, hydrologists, engineers, Geographic Information Systems (GIS) specialists and support staff. UltraSystems is committed to applying its well-honed project management approach, effective and transparent cost/schedule/control protocols, and proven quality assurance/quality control procedures to all its assignments.

6. PROJECT APPROACH

Our approach to this street improvement project, recognizing that both schedule and budget are of primary concern, dictates that design decisions must be made quickly and carefully. When this is coupled with the various constraints present, it is critical that the District choose a consultant with a proven track record of delivering. With our familiarity of the existing conditions, preliminary topographic data collected from Regional Conveyance Trunk Sewer project, our relationship with the District and City of Desert Hot Springs staff and our team of senior level design professionals, TKE is the right choice for this project.

With a street improvement project of this type, our experience tells us that there has to be a proactive approach to completing the work. This includes early identification of critical design elements and accurate cost estimating throughout the entire process, as well as familiarity with the environmental regulations. In preparing this proposal, our team established key issues so we can “hit the ground running” to make this a successful project for the District.

CRITICAL ISSUES

TKE has extensive experience with street design projects. TKE has prepared design for more than 100 miles of street improvement projects for more than 40 different Cities throughout Southern California. The project scope and design components for this project include every element for several projects in which we have recently completed or are still working on with other Cities in Riverside County. With our in depth understanding of street design, ADA regulations, relationships with City Staff, head start on data collection, knowledge of the project area and wide range of experience, TKE is able to hit the ground running for the design of the current project.

IDENTIFICATION OF CRITICAL DESIGN ELEMENTS

Our approach to identifying critical issues will be to immediately go into the field and document all the critical design elements so they can be presented to the District. This will give us a head start on instructing our survey team about what detailed information to collect. Some of these elements include key ground elevation information at potential drainage crossing and surrounding unimproved roadways to determine how vehicular access, ADA access, and natural drainage patterns will be maintained.

PROJECT SCHEDULE

With multifaceted projects, maintaining the proposed schedule is critical. During preparation of the project design, TKE has already prepared design plans for portions of the project limits. This will provide TKE the opportunity to immediately begin work on critical path items which will provide an extensive head start and shorten overall project delivery time.

AGENCY COORDINATION

With project design review and approvals required by the City of Desert Hot Springs, coordination throughout the design process will be critical to ensure the City’s standards and design preferences are incorporated. TKE has established great working relationships and has direct coordination experience with the City and will use that experience to ensure coordination is maintained throughout the project.

UTILITY COORDINATION

Based on field review, numerous utilities will require adjustment. These facilities include water valves, water appurtenances, sewer manholes, and utility vaults. Again, we will identify these facilities early in project design to begin coordination at the earliest opportunity. Agencies that maintain private utilities can be cumbersome in getting facilities adjusted. Early coordination will prevent project delays.

RIGHT-OF-WAY ACQUISITION

While the District is completing a parcel map process with the City of Desert Hot Springs, dedicating it’s portion of the required roadway right-of-way to the City, additional right-of-way and temporary construction easements are still required along the south side of 20th Avenue and west side of Little Morongo Road. TKE will assess right-of-way needs along these areas and coordinate with the City, as needed, to help secure the required acquisitions.

STREET, DRIVEWAY AND PROPERTY TRANSITIONS

Due to the remote, unimproved nature of the project site, transitions to existing areas are typically the most challenging component of design. TKE will review survey data well into the properties and design improvements to be constructed within existing right-of-way.

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ADA COMPLIANCE

TKE is highly experienced with ADA Regulations (CBC Chapter 11B-Division 4) for accessibility of walkways, ramps, and pedestrian facility improvements. There are numerous regulations identified with the CBC outside of the information shown in most District standard plans for curb ramps. Our project managers and engineers are extremely familiar with the requirements of the CBC Chapter 11B – Division 4 for handicap and curb ramps and can ensure the ramps are designed to ADA standards, and thereby minimizing liability for any future claims.

ENVIRONMENTAL PROCESSING AND PERMITTING

TKE's project team includes Ultra Systems (Ultra), an environmental subconsultant with experience preparing several successful environmental documents within the Coachella Valley. Based on Ultra's experience in the project area, they believe it is highly likely that an Initial Study/Mitigated Negative Declaration (IS/MND) can be adopted for this project, with certain qualifications. Ultra will prepare environmental processing to comply with California Environmental Quality Act (CEQA), prepare and process submittals to applicable regulatory agencies as necessary to secure permits for construction of the proposed improvements, provide MSHCP compliance. Ultra will produce a

legally defensible IS/MND for the 19th Avenue, 20th Avenue and Little Morongo Road Improvement Project. However, due to the current highly litigious environment over CEQA documents, Ultra will appraise the level of opposition and controversy after the draft IS/MND is circulated with City Staff. If it appears that a focused Environmental Impact Report (EIR) is merited, Ultra will work with the District to fulfill this requirement.

TKE and Ultra's wide range of successful project delivery has enabled us to forge relationships with the various resource agencies necessary for complex environmental and encroachment permitting. We have successfully acquired permits from Caltrans, Riverside and San Bernardino Counties, US Army Corps of Engineers, Fish and Wildlife Service, California Department of Water Resources, California State Water Resources Control Board, Cal-OSHA Mining and Tunneling, Santa Ana Regional Water Quality Control Board, BNSF, UPRR, and RCTC, as well as local City permits, to name a small sample. Our long-standing relationships and permitting experience allows us to expedite the permitting process and provides the City knowledgeable experts to turn to in order to avoid future challenges.

STREET, DRIVEWAY AND PROPERTY TRANSITIONS

For street improvement and widening projects, transitions to existing improvements are typically the most challenging component of design. Street transitions will require that improvements be constructed at ultimate locations with interim design being implemented. Therefore, the improvements must be constructed so that no reconstruction of permanent improvements will be required and interim transitions are safe and functional.

Many of the adjacent properties have significant vertical elevation differences and will require significant grading to accommodate proper transitions to the proposed improvements. Using the topographic mapping, TKE will review vertical alignment designs that will analyze environmental impacts, impacts to adjacent properties and developments, impacts to adjacent streets, conveyance of offsite drainage, street drainage, earthwork, utility relocations, slope and temporary construction easements, traffic impacts,

constructability reviews along the proposed street alignments. The analysis will include a report identifying potential impacts, mitigation requirements and quantities as appropriate for each item listed above and will include preliminary profiling for each alternative.

DRAINAGE

Design of drainage conveyance must be developed early during design to identify locations of structures. In particular, catch basins or dry wells must be identified to eliminate potential conflicts. In addition, hydrology and hydraulic calculations must be performed early to adequately size the required drainage structures in accordance with the City's master plan.

UTILITY COORDINATION

Based on field review, various utilities will require relocation. These facilities include power poles, risers and utility vaults. We will identify these facilities early in project design to begin coordination at the earliest opportunity. TKE has extensive experience coordinating with SCE for the relocation and undergrounding of existing power poles. Agencies that maintain private utilities can be cumbersome and early coordination will prevent project delays.

PAVEMENT REHABILITATION

Review of the pavement conditions on McCall Boulevard indicate that pavement conditions vary from fair to complete structural failure. TKE will review the pavement conditions and offer alternatives which have varying life expectancies, upon the City's request. Included with the Geotechnical services presented in the scope of services is pavement design. Samples will be taken in the street subgrade for laboratory testing to determine the correct section for street design.

ACCURATE COST ESTIMATING

Because of the limited budget, it is vital to keep costs controlled. Our approach to controlling costs is to provide frequent and accurate cost estimates by using TKE's detailed cost estimating database. In addition to using this database, TKE utilizes our considerable experience with Construction Management to assist in providing constructability reviews and cost estimating based on current information from our on-going projects. Finally, with the current economic

climate, construction costs are widely varying. We will also discuss the project's elements with local contractors to assure that we have the most current construction information available so that the District can get the most "bang for their buck".

TKE will provide design services in progressive phases, 60%, 90% and 100% Level Completion. TKE's scope of services is presented in the following paragraphs:

TASK NO. 1.0 PROJECT MANAGEMENT

TKE's Project Manager will be responsible for the entire project team. Prior to commencement of services, we propose to meet MSWD staff to review project obligations and to discuss all project requirements in detail. TKE's Project Manager and Project Engineer will attend the meeting to determine project protocol and obtain record drawings.

We will attend all meetings, prepare agendas and corresponding meeting minutes together with collection of signatures for meeting attendees (sign-in sheets). He will meet with the City at appropriate times and will meet as needed with agencies, developer, property owners, and utilities in addition to the meetings presented below. He will also update the project budget and schedule prior to each City meeting for discussion with staff.

TASK 2.0 RECONNAISSANCE AND FIELD SURVEYS

TASK NO. 2.1 RECORDS RESEARCH

We will thoroughly research existing utility records and acquire copies of all available records. The purpose of the records research is to assemble survey records to establish locations of street centerlines, street rights-of-way, and easements and determine locations of all existing utilities and improvements. The research will consist of assembling copies of assessors' maps, tract maps, parcel maps, easement documents, monument ties, benchmark data, corner records, street and storm drain improvement plans, and utility drawings. We will request the City provide copies of available pertinent City records, such as survey ties, benchmarks, and street, sewer and storm drain improvement plans.

We will notify Underground Service Alert to acquire a complete list of underground utility purveyors. The utility drawings will include existing drawings from the City, and drawings and/or atlas maps from all private utility companies, and/or agencies. We will confer and coordinate with the following agencies as well as any additional agencies listed in the Underground Service Alert:

- Mission Springs Water District
- Verizon Telephone
- AT&T and PacBell
- Sprint
- Southern California Gas Co.
- Southern California Edison
- Time Warner Cable Television

We will send first utility notice letters to all listed utility companies and agencies requesting their data. We will maintain copies of the letters and correspondence for future reference. We shall also provide the City with a complete copy of all correspondence with all utility companies.

TASK NO. 2.2 TOPOGRAPHIC SURVEY

TKE will conduct a conventional design survey of the project area due to the level of detail needed for precise grading design. Our field survey crews will locate existing street centerline monuments and they will be denoted on the drawings. The crew will measure the horizontal angle, horizontal distance, and vertical elevation difference between monuments. We will complete a traverse for each survey to ensure closure. Elevations will be tied to existing City benchmarks.

Our field survey crews will collect appropriate detail as required to prepare a topographic map for the entire reach of Little Morongo Road from all streets. The topographic map shall be 200-foot wide on 19th and 20th Avenues 100-foot wide on Little Morongo Road and shall extend 100-foot beyond project limits. In addition, we will collect 50-foot cross sections on all streets with shots extending 50-foot beyond full width right-of-way on each side. Survey data will include trees over 2-inches in diameter, buildings, slopes, drainage facilities, fire hydrants, water valves, manholes, water meters, signs, power poles, fences, structures, and all other visible features.

Our crews will set 100-foot stationing along street centerlines and collect existing topography as

needed to provide sufficient level of detail for precise design. The crew will also measure invert, top of cone and rim elevations for all existing manholes in the project area and invert and rim elevations for all drainage facilities. The crew will set temporary benchmarks within the project limits and each will be shown on the survey control drawings.

We will prepare a topographic map for the entire reach of all streets. The topographic map shall be 200 feet wide (100 feet each side of the centerline) and shall extend 100 feet beyond the project limits. The map shall be prepared in AutoCAD format at 1"=20' scale and shall include 1 foot contours.

A survey control plan shall be prepared and shall show all existing found monumentation, benchmarks, ties and temporary control points. All found monumentation will include descriptions and tie-out information.

The survey control plan will be provided to the District in hard copy (bond) and digital (AutoCAD and PDF) formats.

TASK NO. 2.3 GEOTECHNICAL EVALUATION AND REPORT

We would propose to retain Aragon Geotechnical Inc. (AGI) as a sub consultant to provide Geotechnical services for the project. AGI will provide geotechnical evaluations and recommendations of grading, earthwork, and pavement design. They will perform the following:

- Drilling, sampling and logging of necessary borings for evaluation of street structural section. AGI will notify Underground Service Alert and will provide necessary traffic control for the field operations. The borings will be drilled to a depth of at least five feet. The asphalt pavement thickness and base thickness will be noted during the boring operations.
- Design of street structural section using City provided traffic indices.
- Laboratory testing of representative soil samples to evaluate in-situ moisture content, density tests, infiltration rates, max density and optimum tests, sieve analysis, R-value, direct shear tests, consolidation and collapse tests and corrosivity characteristics of the on-site soils.

- Data compilation and geotechnical analysis of existing geotechnical maps, reports, and field and laboratory data to provide recommendations for pavement design. Analysis will include recommendations for new pavement section alternatives, based on the traffic indices and R-value testing.

TASK NO. 2.4 GEOTECHNICAL DESIGN REPORT

Preparation of a report presenting our findings, conclusions and recommendations pertaining to design, compaction requirements, and subgrade preparation for each street. In addition, the report will provide recommendations for asphalt pavement recycling and other recommendations, which would include cost saving treatment methods.

TASK 3.0 ENVIRONMENTAL ANALYSIS

We would propose to retain UltraSystems to provide environmental services. UltraSystems will prepare environmental compliance documents for the proposed project which is subject to the analytical and disclosure provisions of the California Environmental Quality Act (CEQA) and their implementing guidelines. UltraSystems will prepare a draft Initial Study, complete the Public Works Environmental Form and identify any additional environmental studies and/or reports that may be needed for the City's Planning Division to complete the environmental determination.

Based on UltraSystems experience in the project area, UltraSystems believes it is highly likely that an Initial Study/Mitigated Negative Declaration (IS/MND) can be adopted for this project, with certain qualifications. UltraSystems will prepare environmental processing to comply with California Environmental Quality Act (CEQA), prepare and process submittals to applicable regulatory agencies as necessary to secure permits for construction of the proposed improvements, provide MSHCP compliance and be sufficient to support future phases of the project as funding becomes available. UltraSystems will produce a legally defensible IS/MND for the 19th Avenue, 20th Avenue, and Little Morongo Road Street Improvement Project. However, due to the current highly litigious environment over CEQA documents, UltraSystems will appraise the level of opposition

and controversy after the draft IS/MND is circulated with City Staff.

As part of the IS/MND, UltraSystems will prepare a traffic impact analysis, air quality and greenhouse gas assessment, noise assessment, cultural and biological resources assessment and a Phase I environmental site assessment. For our fee estimate, we have assumed that a mitigated negative declaration will provide for environmental compliance.

Upon completion of the environmental documents, UltraSystems will process environmental compliance documents with the City and record the notice of determination.

TASK 4.0 PRELIMINARY ENGINEERING

Utilizing the collected survey data, we will prepare the base construction drawings on 24" by 36" sheets with the City's standard title block using AutoCAD 2020 software, utilizing the City's layering system, at a drawing scale of 1"=20'. The base construction drawings will include a plan view based on conventional survey data. We will add the sheet north arrow, graphic scale, existing improvements and utilities (based on both assembled records and field data), property lines, public and private right-of-way, easement areas, assessor parcel numbers, street centerline, street names, building locations, water service location; sewer manhole lids and water valve lids; cross gutters; driveways, pedestrian ramps; traffic stripes and legends; curb returns; details of private improvements, fences, gates, irrigation systems, mailboxes, trees and landscaping, and survey data to the plan view portion of the drawings. Once the base drawings are complete, we will perform a careful field review to ensure all underground facilities are shown correctly.

Using the topographic mapping, TKE will prepare preliminary design concepts for geometric alignment that will analyze impacts to adjacent properties and developments, impacts to adjacent streets, conveyance of offsite drainage, street drainage, earthwork, utility relocations, slope and temporary construction easements, traffic impacts, constructability reviews and future street improvements. Preliminary geometric design will be performed to establish ultimate improvements to minimize removals of improvements constructed

with future projects. The analysis will include an exhibit identifying potential impacts, mitigation requirements and quantities as appropriate for each item listed above and will include preliminary engineer's estimate. TKE will attend two meetings for review and approval of the geometric alignment design.

In addition, TKE will prepare hydrology and hydraulic analysis of the project area to determine culvert and/or low water crossing flowrates and size requirements.

TASK 5.0 UTILITY COORDINATION

TKE will prepare a composite utility plan which identifies all existing utilities within the proposed right-of-way and all utilities affected by the proposed street improvements and requiring relocation. The plan shall show all above and below ground utilities including all laterals. The utility plan will be for use in coordinating with utility companies.

TASK 6.0 RIGHT OF WAY ENGINEERING

Legal descriptions will be prepared describing the right-of-way that the Project desires to obtain for 20th Avenue and temporary construction easements for Little Morongo Road. The legal descriptions will be shown as Exhibit 'A'. A plat will be prepared showing the existing parcel with all appurtenant right-of-way and easement information and the proposed right-of-way to be dedicated. The plat will show bearings and distances for the proposed right-of-way, assessors' parcel number, the appropriate tract or parcel map, and Instruments if any. TKE anticipates permanent right-of-way document preparation for 2 parcels and temporary construction easements on 4 parcels. In addition, we will forward all right-of-way and temporary construction right-of-way documents for the City to execute with the property owners.

TASK 7.0 PERMITTING

After the preliminary design, TKE will begin application preparation for required permits. Applicable permits include encroachment permits, CVCC and the City of Desert Hot Springs. Upon completion of the applications, TKE will

submit applications to appropriate agencies and track permit progress.

TASK 8.0 CONSTRUCTION DOCUMENTS

TASK NO. 8.1 60% DESIGN

60% Design will include preparation of phased construction drawings, technical specifications, construction estimates, completed geotechnical report, environmental documents, and right-of-way documents and approvals.

Construction drawings will show proposed street geometrics as determined from the City's selected geometric alignment including locations of proposed curb, drive approaches, sidewalk, swales, ramps, spandrels and cross gutters. In addition, street grades will be prepared to establish project grading requirements. Proposed improvements will be designed in accordance with the City's current street and drainage design standards and specifications for ultimate street widening. The proposed improvements will be designed to minimize grading, earthwork and transitions onto private property and adjacent streets.

For the drawings it is estimated, we will prepare 1 title sheet, 2 construction notes sheets, 3 demolition sheets, 3 grading sheets, 6 plan/profile sheets, 1 drainage sheet, 8 cross-section sheets, 3 street light plans, 3 signing and striping sheets, 2 erosion control sheets and necessary detail sheets.

The title sheet shall include the title of the job, a vicinity map showing the District in relationship to surrounding communities, a location map showing the project limits, construction notes, an index for the drawings, list of references on the District's standard title block.

The construction note sheets will show general construction notes, a list of abbreviations used, benchmark data, general notes, utilities with phone numbers, and project specific requirements.

The demolition sheets will show existing improvement demolition including limits of pavement removal, saw cutting locations and limits and concrete cross gutters and curbs, if required. In addition, the plan will specify relocation of private improvement such as mailboxes fences, etc. as required.

The grading sheet will include grading limits, existing and proposed contours and drainage facility structure details required to construct the water quality mitigation facility.

Plan/profile sheets will show proposed improvements including curbs, cross-gutters, driveways, pavement limits, storm drain pipe, manholes, catch basins, overlay limits, signs, traffic strips, existing utility relocations (if any), water service relocations, and manhole, valve, and vault cover grade adjustments. For the profile portion of the drawings, we will show existing and proposed pavement elevations at centerline, top of curb, and edge of pavement with appropriate design data.

The drainage sheets will be prepared in accordance with City standards and requirements. The sheet will be prepared at a 1"=20' scale and will show existing right-of-way, curb, gutter, sidewalk, existing utilities, existing right-of-way, curb, gutter, sidewalk, existing utilities, existing drainage improvements and all proposed drainage facility improvements. Storm drain sheets will show top of pipe, flowline, structures, utility crossings and ground surface.

The street cross-sections sheets will show street sections at appropriate drawing scales. The sections will be dimensioned and construction and demolition notes will be shown. In addition, rights-of-way and limits of work will be shown.

The street lighting will include layout of all proposed street lights in accordance with the City's required spacing criteria for arterial roadways. The street lighting plan will also be utilized to coordinate with SCE for the required electrical design.

The signing and striping sheets will include all required pavement markings, lane stripes and signage in accordance with the MUTCD, California supplement and all other applicable City requirements, for the project limits. The sheets will be prepared at 1"=40' scale and include full geometrical layouts at each intersection.

The detail sheets shall include pertinent ramp and driveway details at 1"=10' scale.

For the specifications, we will amend the City Standards Technical Provisions as required for the projects. The construction specifications will be prepared in Microsoft Word (2020 Version) format in accordance with City standards.

In addition, we will prepare quantity estimates for all proposed improvements prepared using an excel spreadsheet showing an itemized construction cost breakdown. Descriptions of work, unit prices, and quantities will be included in the spreadsheet.

60% Design (construction drawings, technical specifications, construction estimates, completed geotechnical report, environmental documents and right-of-way documents and approvals) will be submitted with a project summary memorandum together with an updated project schedule, utility contact matrix, stakeholder meeting summary, and internal plan review documentation.

TASK NO 8.2 90% DESIGN

90% design will include incorporation of City comments from 60% design phase, revised plans, specifications, estimates, street design, and associated plans.

90% design will be submitted with a project summary memorandum together with an updated project schedule and cost estimate.

TASK NO 8.3 FINAL DESIGN

Final design will include incorporation of City comments for all phases of construction, revised plans, specifications, estimates, street design, and traffic control plans.

Final Design will be submitted with a project summary memorandum together with an updated project schedule and cost estimate.

TASK. 9.0 CONSTRUCTION BIDDING PHASE

TKE will assist MSWD during project bidding by providing the plans and specifications to plan rooms. In addition, we will answer questions about or provide clarifications of the contract documents as requested by MSWD, and will prepare addenda if necessary.

TASK 10.0 CONSTRUCTION SUPPORT PHASE

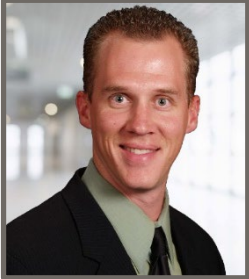
TKE shall be available to review material submittals provided by the Contractor and respond to an RFI's. We will also attend the preconstruction meeting and upon receipt of redlined drawings, TKE

will prepare a complete set of signed and stamped record drawings, which will reflect the improvements as constructed; any changes made during project construction. Said record drawings will be based on data furnished by the public agencies, the contractor, and MSWD.



SECTION C | PERSONNEL QUALIFICATION

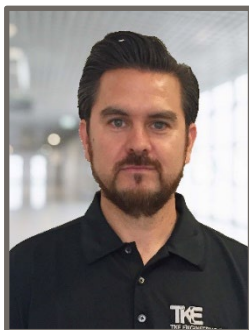
1. PROJECT TEAM



Terry Renner, P.E., Q.S.D.
Principal in Charge
R.C.E. No. 69984
Q.S.D. Certification No. 24329

Mr. Renner has 22 years of engineering and surveying experience and also has experience as a Plan Checker and Project Manager. Mr. Renner is a Registered Civil Engineer in the State of California. He has extensive experience in the design and construction of street widening, traffic signal, pavement rehabilitation and storm drain public works improvement projects, including project management, design engineering, construction management and surveying services. In addition, as detailed on Mr. Renner's resume, he has experience with drainage studies preparation, design and construction engineering for street, sewer and drainage system improvement projects. Mr. Renner is well trained in the use of computerized drawing software. He will assist with various tasks throughout the course of providing engineering services, such as base construction drawings, design and construction estimates.

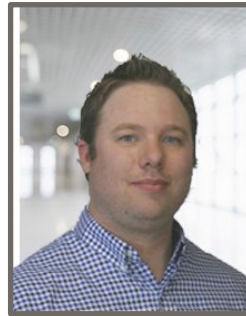
Mr. Renner's role on the team will be to oversee design review, compliance with standards and regulations and perform quality assurance and quality control on all documents.



Octavio Parada
Project Manager

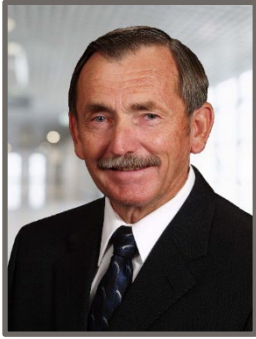
Mr. Parada has over 25 years of progressive experience in civil engineering in the public works sector as well as the private sector. He is result-driven, proactive and detail-oriented with a proven track record of successfully handling and delivering a wide variety of complex and challenging projects. He is dedicated to ensure that projects exceed

industry standards and consistently finishing under budget and schedule. Throughout his career, Octavio has accumulated extensive experience in planning, designing and project completion for more than 30 miles of roadways, street widening, medians, traffic calming, roundabouts, signing and striping modifications, bicycle lanes, pedestrian facilities for major corridors, arterials, collectors and residential streets, including water improvements, sewer improvements, drainage improvements, grading plans and computerized system modeling for drainage master plans. Finally, Octavio has worked in the private sector for commercial and industrial development as technical director managing projects from the conceptual stage, through planning, designing, bidding, construction, and project completion under project specifications and exceeding client expectations.



Justin Schlaefli, P.E., T.E.,
P.T.O.E.
Project Engineer

Justin has 20 years of experience in the transportation field. He is responsible for managing projects on a day-to-day basis as well as interfacing with other project team members and decision makers/ government staff and Contractors. He specializes in Transportation Projects, Intelligent Transportation Systems, Transportation Planning, Construction, Traffic Engineering and Traffic Operations. He has experience working on both public sector projects as well as private sector design. His experience ranges from design, construction management and inspection to operations and maintenance. He also has experience conducting traffic studies, specialized access analysis, parking studies, trip generation studies, traffic micro-simulation, signal operations, signal timing, traffic control and design/build of ITS solutions. In addition, Justin has served as a subject matter expert in court, for the State of California and for vendors in the transportation industry. He is also a proud alumnus of San Diego State University where he has guest lecturer and has taught Transportation Engineering, helping to mentor the next generation in his field.



Ron Musser, P.L.S.
 Director of Survey
 Professional Land Surveyor, LS
 4230 (CA)

Mr. Musser has over 52 years of experience in performing field and office surveying and plan checking services for public and private projects including roadway and highway projects. He has performed design topographic surveying and construction staking on all of TKE's respective design and construction management projects and map checking over the past 10 years. In addition, he has prepared records of survey, parcel maps and tract maps in Orange County, Los Angeles County, San Bernardino County, Riverside County, and San Diego County. He has performed boundary, topographic, ALTA, and precise level surveys as well as Global Positioning Surveys. Mr. Musser currently provides map checking services to the City's of Hesperia, Pico Rivera, El Monte, Upland, and Calimesa.



Kristine Macalma
 Utility Coordinator
 California E.I.T.

Ms. Macalma is a Project Manager at TKE and has 6 years of experience in assisting in engineering drafting, design, and assistant construction management. Her experience includes transportation improvements, street improvements, utility research, grading plans, construction management assistance, grant preparation, preliminary and final design drawings, specifications and engineer's cost estimates, and water and wastewater facilities including pipelines and water storage reservoirs. Ms. Macalma has been an integral part of projects successfully completed for the City of Calimesa, City of Highland, City of Yucaipa, City of Hesperia, City of Adelanto, City of Fontana, City of Upland, and City of Wildomar.

SECTION D | EXPERIENCE AND REFERENCES

1. RELATED EXPERIENCE

Throughout our history of 22 years serving the Southern California region, we have provided multi-disciplinary planning, design and construction support services for large and small street improvement projects. We have successfully completed complex and challenging projects for a variety of municipal agencies who have continued to request that we partner with them in delivering much needed infrastructure to their communities.

TKE has two unique advantages associated with the experience of TKE's project team. One benefit of TKE's project team is our extremely low internal turnover rate. As a result of our rigorous interview and testing procedures coupled with our extremely high employee satisfaction rates, TKE staff has years of experience working together. The close relationships each of our staff members have with one another provide the District with an extremely well rounded and experienced team. As such, TKE's project team experience directly correlates with TKE's firm experience described below. The second benefit of TKE's project team is our internal training procedures. TKE has strived to develop techniques that reach outside the box and develop well rounded individuals committed to providing high quality, efficient services to meet all of our clients' needs. TKE trains our staff on every facet of design and construction engineering to provide a level of knowledge that can identify problems in every phase of A Street improvement project prior to them being identified during constructed. It is this commitment to service and diverse array of offerings that makes us unique and drives our long-standing relationships with our client base. Understanding that early identification of potential issues and strict compliance with the developments are important to ensure the District's interests are protected, our team brings TKE management level professionals to projects ensuring that every aspect receives full and comprehensive consideration. It is this personal touch and contact that define our 'local service' approach. We consider ourselves community builders and take ownership of services requested from TKE,

ensuring that our construction management and inspection personnel have a background in the design and construction field, provides the District with a team which will maximize the potential to complete all services on schedule and within specified budget.

2. SIMILAR SERVICES

TKE continues to provide numerous municipalities and agencies with consulting services and staffing for every facet of engineering and public works projects. In addition, we have worked on a wide variety of projects, ranging from multi-million dollar regional mega projects to minor replacement projects for a variety of government agencies. TKE recognizes the importance of staffing based on a client's need and workload. Our flexible support and qualified staff enables our clients to serve their constituents in a cost effective and efficient manner.

A few examples of similar services provided by TKE are Mission Springs Water District, City of Calimesa, City of Highland, and City of Fontana. Each are discussed below:

MISSION SPRINGS WATER DISTRICT

TKE is currently serving Mission Springs Water District (MSWD) as its District Engineer and providing on-call project and construction management services. TKE is assisting MSWD with design, construction management and inspection efforts on various water and wastewater system projects and assisting MSWD with its implementation of \$60 million sewer treatment program and is working with other jurisdictions related to street improvement agreement for the current project.

CITY OF HIGHLAND

TKE recently provided and/or is currently providing project management and design services to the City of Highland for the 5th Street Corridor Improvements Project which includes street widening, pavement removal and reconstruction, traffic signal installation and drainage improvements along a one mile stretch of 5th Street between Victoria Avenue and Palm Avenue, the Article III Pedestrian Access Improvements Project which includes street widening at various



locations and City wide sidewalk grinding, sidewalk removal and replacement, sidewalk construction, drainage improvements, trail construction and improvements, bus stop improvements, ADA compliance and private improvement restoration and for the 5th Street /Greenspot Road Bikeway Improvements Project which includes minor street widening, installation of wayfinding and bike signs, installation of class II bike lanes, construction of trail improvements and kiosk construction. While providing these services to the City, TKE is also responsible for public outreach to local affected residents to minimize concerns and complaints about the construction project, constructability review of the plans and specifications to determine any potential for changes or design flaws, utility relocation coordination with Southern California Edison, Southern California Gas, East Valley Water District and Verizon and permitting.

CITY OF CALIMESA

TKE is currently providing project/design management and design services to the City of Calimesa for the Safe Routes to Schools, 2nd Street Improvements Project which includes street widening, curb, gutter, sidewalk and ADA accessibility ramps, pavement removal and reconstruction, bridge widening, waterline and drainage improvements along a one mile reach of 2nd Street between Avenue "L" and Avenue "H". While providing these services to the City, TKE is also responsible for public outreach to local residents and businesses to mitigate any concerns for vehicular access to the local businesses during construction and obtain right-of-entry authorizations from each property, constructability review of the plans and specifications to determine any potential for changes or design flaws, utility relocation coordination with Southern California Edison, Southern California Gas, South Mesa Water Company and Verizon and all permitting compliance with Riverside County Flood Control & Water Conservation District, U.S Army Corps of Engineers, California Department of Fish and Wildlife, and Regional Water Quality Control Board.

CITY OF FONTANA

TKE is currently providing project management and design engineering services to the City of Fontana various street improvement projects, include Etiwanda Avenue and Slover Avenue, Sierra

Avenue Widening and for the Safe Routes to Schools Pedestrian Improvements Project funded through ATP Cycle 3. These projects consist of the preparation of full Construction documents including plans, technical specifications, and construction cost estimates for major arterials and secondary highways within the City. The projects include more than 14,000 linear feet of street improvements, ADA and pedestrian enhancements, utility relocation and undergrounding, right-of-way and temporary construction easement acquisition on more than 100 parcels, and coordination for private property improvement construction. The project includes the construction of curb, gutter, sidewalk, curb ramps, raised and striped medians, bike lane improvements, traffic signal modifications, utility relocations, private improvement restoration and signing and striping. TKE is coordinating with Caltrans for completion of the PES, right-of-way certifications and obtaining the RFA for construction.



3. PROJECT SPECIFIC EXPERIENCE



CALIMESA SAFE ROUTE TO SCHOOLS (SR2S)

City of Calimesa, CA

Client Contact: Bonnie Johnson
Phone Number: (909) 795-9801
Email: bjohnson@cityofcalimesa.com
Project Cost: \$1.5 Million
Completion Date: July 2016

DESCRIPTION

The City of Calimesa was awarded funding for the pedestrian path of travel enhancements to provide increased safety for walking paths along 2nd Street between Avenue “L” and Avenue “H” and along Avenue “L” between 2nd Street and 3rd Street. Proposed curb, gutter and sidewalk improvements will be constructed for increased pedestrian safety. The project includes 1 mile of street improvements together with structural bridge widening over existing drainage channel, right-of-entry acquisition, public outreach and coordination.

SERVICES

Services included funding administration through Caltrans Local Assistance, design, surveying, environmental compliance, utility coordination, right-of-entry acquisition documents, construction management, inspection, construction staking, and negotiation with property owners

KEY STAFF

Terry Renner, P.E.-Project Manager
 Octavio Parada, Project Engineer
 Ron Musser, L.S.- Surveyor
 Brad Enscoe – Public Works Inspector

RELEVANCE TO MSWD

- Various pavement rehabilitation strategies
- Coordination with residents and schools
- Arterial roadway design



COUNTY LINE ROAD TRANSPORTATION CORRIDOR (LPP)

City of Calimesa, CA

Client Contact: Bonnie Johnson
Phone Number: (909) 795-9801
Email: bjohnson@cityofcalimesa.com
Project Cost: \$10.1 Million (\$3.7 Million Grant)
Completion Date: Current

DESCRIPTION

TKE prepared and obtained a grant for the City of Calimesa through the Road Repair and Accountability Act of 2017 (SB1) Local Partnership Program (LPP). TKE is preparing street widening and roundabout improvements for the construction of the County Line Road Transportation Corridor. The Project includes four (4) single-lane and one (1) multi-lane roundabouts, together with street, pedestrian, and bicycle improvements, to improve safety and efficiency throughout the corridor. The innovative approach to implement roundabout intersection throughout the corridor provides adequate capacity and level of service to remain

RELEVANCE TO MSWD

- LPP State Grant Funded Project
- Design of 4 Roundabouts



a two-lane street; thus, significantly reducing right-of-way and construction costs to construct a four-lane corridor.

SERVICES

Services include grant coordination and management, design, topographic survey, right-of-way engineering, environmental assistance, roadway safety analysis, preparation of exhibits, cost estimates, coordination with California Transportation Commission, construction management, inspection, and construction staking.

KEY STAFF

Michael P. Thornton, P.E., L.S.
 Terry Renner, P.E., Q.S.D.
 Steven Ledbetter, P.E.
 Octavio Parada
 Ron Musser, L.S.
 Monae Pugh

- Right-of-Way Acquisition
- Extensive Relocations Utility
- Major Reconstruction Arterial
- Various Strategies Pavement
- Extensive Coordination and Permitting Utility
- Community Outreach Efforts



ATP CYCLE 3 SAFE ROUTE TO SCHOOL PEDESTRIAN IMPROVEMENTS PROJECT

City of Fontana, CA

Client Contact: Jeffrey Kim, P.E.
Phone Number: (909) 350-7632
Project Cost: \$1.9M
Completion Date: Current

DESCRIPTION

TKE provided design engineering services for the Safe Routes to Schools project funded through ATP Cycle 2 for the City of Fontana for Fontana Ave and Arrow Boulevard. This project consisted of the preparation of full Construction documents including plans, technical specifications, construction cost estimates (PS&E) and construction support services for the 5,900 linear foot ADA and pedestrian enhancement project. The project included the construction of curb, gutter, sidewalk, curb ramp, bike lane improvements, utility relocations, storm drain modifications, private improvement restoration and signing and striping. TKE successfully coordinated with Caltrans for completion of the PES, right-of-way certifications and obtaining the RFA for construction.

SERVICES

Services included design, surveying, grant management, PES preparation, environmental compliance services, utility coordination, right-of-way engineering, and construction assistance.

KEY STAFF

Terry Renner, P.E.
 Michael P. Thornton, P.E., L.S.
 Octavio Parada
 Monae Pirie- Pugh
 Ron Musser, L.S.

RELEVANCE TO MSWD

- **Street/Pedestrian Design**
- **Grant Funding Coordination**
- **Utility Relocation/Coordination**
- **Design Topographic Surveying**
- **Right-of-Way Engineering (19 Parcel Acquisitions)**

CAMINO AVENTURA SIDEWALK SAFETY IMPROVEMENTS PROJECT

City of Desert Hot Springs, CA

Client Contact: Mr. John Ashlock
Phone Number: (951) 955-1511



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Mission Springs Water District





Email: jashlock@rivco.org
Project Cost: \$1M
Completion Date: December 2018

DESCRIPTION

TKE provided design engineering services for the Active Transportation Program Safe Routes to Bubbling Wells Elementary School project for the County of Riverside Transportation Department in the Community of Desert Hot Springs. This project consists of the preparation of full Construction documents including plans, technical specifications, construction cost estimates (PS&E) and construction support services for the design of the roadway pavement, curb and gutter, sidewalk, crosswalks, ADA curb ramps, signing and striping along Camino Aventura from Avenida Descanso to Bubbling Wells Road.

SERVICES

Services included design, ADA compliance, utility research, utility conflict coordination, and project management.

KEY STAFF

Michael P. Thornton, P.E., L.S.
 Terry Renner, P.E., Q.S.D.
 Octavio Parada
 Monae Pugh

RELEVANCE TO MSWD

- **Street/Pedestrian Design**
- **ADA Compliance**
- **Grant Funding Coordination**
- **Utility Relocation/Coordination**

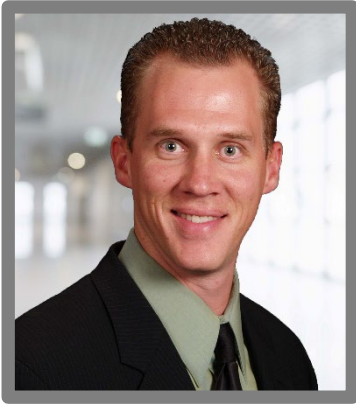


4 . R E F E R E N C E S

Please see the Table above for a small, but representative list of agencies who have and continue to request TKE to assist them in delivering street improvement projects to their communities. We respectfully request that you verify our qualifications with the references listed below.

<p>Mission Springs Water District 66575 2nd Street Desert Hot Springs, Ca 92240</p>	<p>Arden Wallum General Manager P: (760) 329-5169 Awallum@Mswd.Org</p>	<p>2001 – Present</p>
<p>City of Fontana Public Works Department 16489 Orange Way Fontana, Ca 92335</p>	<p>Phil Burum Deputy City Manager P: (909) 350-6727 Pburum@Fontana.org</p>	<p>2000 – Present</p>
<p>City of Highland 27215 Baseline Highland, Ca 92346</p>	<p>Carlos Zamano Public Works Director P: (909) 864-6861 Czamano@Cityofhighland.org</p>	<p>2014 – Present</p>
<p>City of Calimesa 908 Park Avenue Calimesa, Ca 92320</p>	<p>Bonnie Johnson City Manager P: (909) 795-9801 Bjohnson@Cityofcalimesa.net</p>	<p>2012 – Present</p>
<p>City of Wildomar 23873 Clinton Keith Road Suite 201 Wildomar, Ca 92595</p>	<p>Daniel York Assistant City Manager, Public Works Director / City Engineer P: (951) 677-7751 Ext. 216 Dyork@cityofwildomar.org</p>	<p>2013 – Present</p>

5. RESUMES



TERRY RENNER,
P.E., Q.S.D.
TKE Engineering, Inc.

Mr. Renner is the Vice President of TKE and has 20 years of experience in civil engineering infrastructure projects, including street, pavement rehabilitation strategies, pavement deterioration analysis, transportation improvements, traffic signal improvements, drainage improvements, sewer and water improvements, facilities improvements and recreation improvements. He has managed numerous projects and has delivered projects for Riverside and San Bernardino Counties as well as Cities of Coachella, Fontana, Upland, Riverside, Redlands, Rialto, Calimesa, Colton, El Monte, Moreno Valley and Corona. As a project manager, Mr. Renner has been responsible for field analysis of pavement deterioration, design production, supervising a staff of engineers and drafters, coordinating work between the production team and the client, and for submitting all deliverables in a timely manner. He has successfully delivered a wide variety of complex and challenging projects and is dedicated to ensuring that the plans produced by TKE continue to exceed industry standards.

DETAILED PROJECT EXPERIENCE

- **ATP Cycle 2 Safe Routes to School – Fontana Avenue and Arrow Boulevard Project, City of Fontana, CA-** Mr. Renner was the project manager for design of the Active Transportation Program, Cycle 2 project. This project consisted of the preparation of full Construction documents including plans, technical specifications, construction cost estimates (PS&E) and construction support services for the 5,900 linear foot ADA and pedestrian enhancement project. The project included the construction of curb, gutter, sidewalk, curb ramp, bike lane improvements, utility relocations, storm drain modifications, private improvement restoration and signing and striping. TKE successfully coordinated with Caltrans for completion of the PES, right-of-way certifications and obtaining the RFA for construction.
- **ATP Cycle 1 Safe Routes to Calimesa and Wildwood Elementary Schools Project, City of Yucaipa/Calimesa, CA-** Mr. Renner was the project manager for design of the Active Transportation Program, Cycle 1 project. This project consists of the preparation of full construction documents including environmental compliance documents, right-of-way acquisition, plans, technical specifications, construction cost estimates (PS&E) and construction support services for the design of the Bicycle lanes, curb and gutter, sidewalk, crosswalks, ADA curb ramps, signing and striping along Avenue 'H' from 3rd Street to Holmes Street and along County Line Road between 3rd Street and California Street.
- **Safe Route to Schools Cycle 10 (SR2S), City of Coachella, CA -** Mr. Renner was the project manager for design, surveying, environmental compliance services, utility coordination, right-of-engineering, and construction assistance management for the design and construction

EDUCATION

BS, Civil Engineering, California State Polytechnic University, Pomona

REGISTRATIONS

P.E. License Number 69984 (CA)
Qualified SWPPP Developer and Practitioner #24329

CERTIFICATIONS

Caltrans SWPPP Certified QSP/QSD Training

AFFILIATIONS

American Public Works Association
American Council of Engineering Companies of California



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Mission Springs Water District



of Class I and II Bicycle lanes, crosswalks, signs advanced stop/yield bars, ADA curb ramps, median islands, crossing islands and in-ground and overhead rapid flashing beacons across the City.

- **Thousand Palms Sidewalk Safety Improvements Project**, *Riverside County Transportation Department, Community of Thousand Palms, CA* - Mr. Renner served as the principal in charge responsible for providing design engineering services for the Active Transportation Program Safe Routes to Della S Lindley Elementary School project for the County of Riverside Transportation Department in the Community of Thousand Palms. This project consists of the preparation of full Construction documents including plans, technical specifications, construction cost estimates (PS&E) and construction support services for the design of the roadway pavement, curb and gutter, sidewalk, crosswalks, ADA curb ramps, signing and striping along La Canada Way from Via Ventana to San Miguelito Drive and El Centro Way from Via Ventana to San Miguelito Drive. Services included design, utility conflict coordination, and construction assistance.
- **3rd Place Sidewalk and Roadway Safety Improvements Project**, *Riverside County Transportation Department, City of Blythe, CA* - Mr. Renner served as the principal in charge responsible for providing design engineering services for the Active Transportation Program Safe Routes to Felix J. Appleby Elementary School project for the County of Riverside Transportation Department and the City of Blythe. This project consists of the preparation of full Construction documents including plans, technical specifications, construction cost estimates (PS&E) and construction support services for the design of the roadway pavement, curb and gutter, sidewalk, grading of drainage/irrigation ditch, crosswalks, ADA curb ramps, signing and striping along 3rd Place from East Vernon Avenue to East 14th Avenue. Services included design, utility conflict coordination, and construction assistance.



OCTAVIO PARADA

TKE Engineering, Inc.

EDUCATION

Bachelors of Science (B.S),
Autonomous University of Baja
California, Mexico (UABC)

CERTIFICATIONS

Certificate (1996),
Traffic Engineering for highways,
Secretary of Transport and
Communication (SCT-Mexico)

Certificate (2007),
CAD Pilot Boot Camp
for Civil 3D,
CVIS

Mr. Parada has over 24 years of progressive experience in civil engineering in the public works sector as well as the private sector. He is result-driven, proactive and detail-oriented with a proven track record of successfully handling and delivering a wide variety of complex and challenging projects. He is dedicated to ensure that projects exceed industry standards and consistently finishing under budget and schedule. Through his career, Octavio has accumulated extensive experience in planning, designing and project completion for more than 30 miles of roadways, street widening, medians, traffic calming, roundabouts, signing and striping modifications, bicycle lanes, pedestrian facilities for major corridors, arterials, collectors and residential streets, including water improvements, sewer improvements, drainage improvements, grading plans and computerized system modeling for drainage master plans. Finally, Octavio has worked in the private sector for commercial and industrial development as technical director managing projects from the conceptual stage, through planning, designing, bidding, construction, and project completion under project specifications and exceeding client expectations.

DETAILED PROJECT EXPERIENCE

- **Kern Drive-Peralta Place Sewer Rehabilitation Project.** *Rubidoux Community Service District* – Mr. Parada Assisted in the design and preparation of 550' of 12" cured in place pipe, including manholes, and appurtenances. The project also included 150' of vitrified clay pipeline extension for future connection to a regional sewer project.
- **Pacific Avenue Water Pipeline Improvements Project.** *Rubidoux Community Service District* – Mr. Parada Assisted in the design and preparation of 5400' linear feet of water mains ranging from 16" to 8" in diameter, utilizing ductile iron and Polyvinyl chloride pipe, pipeline appurtenances, fire hydrants, 60 linear feet of 24" bore and jack steel casing. The project also included coordination of future street and storm drain improvements with riverside county transportation department and flood control district.
- **Crestmore Road Waterline Replacement Project.** *Rubidoux Community Service District* – Mr. Parada Assisted in the design and preparation of 1500' linear feet of 24" CML&C transmission main improvements to increase flows from an existing well site
- **Tilton Avenue Sewer Replacement Project.** *Rubidoux Community Service District* – Mr. Parada Assisted in the design and preparation of 1500' of 12" vitrified clay pipeline including manholes, Service laterals and abandonments.
- **1158 Zone Recycled Water Program,** *City of Fontana, CA* – Mr. Parada Assisted in the design and preparation of approximately 50,000 linear feet of recycled water mains ranging from 6" to 24" in diameter. The project included San Bernardino County Flood Control District bridge crossings, DWR pipeline crossings and Southern California Edison easement crossings. The project included preparation of



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Capital and Development Projects

Mission Springs Water District



preliminary engineering report that identified potential users, projected use amounts alignment alternatives to provide service, environmental impacts and service retrofits. Assistance with a funding application and processing with the State of California State Water Resource Control Board.

- **San Bernardino Avenue Street Improvements, City of Fontana, CA** – Mr. Parada Assisted in the design and preparation of approximately 8,800 linear feet of street median, sidewalk and storm drain improvements along San Bernardino Avenue. The project which is located in the City of Fontana north of Interstate 10 Freeway and East of the Interstate 15 Freeway from Commerce Drive to Cherry Avenue. The proposed median and sidewalk improvements minimize turning movements providing for increased vehicular capacity, corridor beautification, and improved traffic and pedestrian safety. The project contemplated utility and railroad coordination for the relocation and adjustment of various utility improvements (i.e., power poles, meters, vaults, etc.) and the railroad crossing upgrade; Preparation of legal descriptions, right-of-way acquisition plats, temporary construction easement plats.
- **Fontana Campus Parking Improvements, City of Fontana, CA** - Mr. Parada Assisted in the design and preparation of grading, drainage, and street improvements for the design and reconstruction of three major parking areas across the 26-acre City Hall site to create additional parking space for City Staff, Police and visitors of the civic center area. The project included complete parking lot redevelopment, relocation of existing storm drain lines and catch basins, pedestrian and vehicular access to all buildings within the civic center area and themed landscaping and lighting scenarios. The project provided more than 200 additional parking spaces and increase parking lot efficiency.
- **Fontana Senior Center Parking Lot Expansion and Emergency Generator Improvements, City of Fontana, CA** - Mr. Parada Assisted in the design and preparation of grading, drainage, and street improvements for the design and expansion of the Fontana Senior Center west parking lot and the addition of a facility wide emergency generator. The project included demolition of an existing recharge basin, well, piping and electrical transformer and complete parking lot expansion, drainage facilities, pedestrian access to the senior center, relocation and expansion of themed landscaping, fencing and lighting scenarios and a facility wide emergency backup generation system. The project provided 125 additional parking spaces and increased parking lot efficiency. In addition, the parking lot can be utilized by emergency services personnel as a disaster preparedness location.
- **Foothill Boulevard Median and Traffic Signal Improvements, City of Fontana, CA** – Mr. Parada Assisted in the design and preparation of 1,300 linear feet of median, traffic signal modification, and street widening improvements. The project is between Sierra Avenue and Mango Avenue. Project components included construction of ultimate street widening, median, curb and gutter, sidewalk, traffic signal modification, median landscaping and lighting, striping, and onsite



private improvements. The project was a federally funded project (HSIP) which was administered through Caltrans Local Assistance.

- **Foothill Boulevard Median and Traffic Signal Improvements, City of Fontana, Phase II, CA** – Mr. Parada Assisted in the design and preparation of 1,900 linear feet of median, traffic signal installation, and street widening improvements. The project is between Oleander Avenue and Juniper Avenue. Project components included construction of ultimate street widening, median, curb and gutter, sidewalk, traffic signal installation, median landscaping and lighting, striping, and onsite private improvements. The project was a federally funded project (HSIP) which was administered through Caltrans Local Assistance.
- **Fontana Avenue and Arrow Boulevard Safe Routes to School, City of Fontana, CA** – Mr. Parada Assisted in the design and preparation of 5,900 linear feet of ADA and pedestrian enhancement project. The project includes construction of proposed curb, gutter, sidewalk, curb ramp, bike lane improvements, utility relocations, storm drain modifications, private improvement restoration and signing and striping.
- **Vulcan Basin Project, City of Fontana, CA** – The Vulcan Basin project is located in the City of Fontana near the corner of Arrow Route and Tokay Street. The project includes a 1700-acre foot basin, inlet and outlet facilities, storm conveyance facilities, and recycled water conveyance facilities. The project will effectively improve flood control, eliminating current flooding along the transportation corridor, enhance water conservation by recharge of an estimated 4000-acre feet of average rainfall year, storm water, and recycled water reducing the region's dependence on imported water supplies. Mr. Parada Assisted in the design and preparation of different grading basin configurations, perform earthwork calculations as well as tributary Hydrology and Hydraulic analysis.
- **Alesia Street and Lerma Road CDBG Street Improvements Project, City of South El Monte, CA** – Mr. Parada Assisted in the design and preparation of 3,500 linear feet of ADA and pedestrian enhancement project. The project includes construction of proposed curb, gutter, sidewalk, curb ramp, utility relocations, signing and striping.
- **Central Avenue Water Replacement Project, City of Upland, CA** – Mr. Parada Assisted in the design and preparation of 3500' linear feet of 12" CML&C pipe, pipeline appurtenances, service laterals and fire hydrants.
- **Mountain Avenue Pavement Rehabilitation and Water Improvement Project, City of Upland, CA** – Mr. Parada Assisted in the design and preparation of 9500' linear feet of watermains ranging from 12" to 6" in diameter CML&C pipe, pipeline appurtenances, service laterals and fire hydrants. Also 600,000 square feet of Pavement rehabilitation and restriping.
- **Pit 3 Sports Park Storm Drain Project, City of Upland, CA** – Mr. Parada Assisted in the preparation of Hydrology and Hydraulic analysis



for 1500 linear feet of 60" and 54" RCP pipe, Manholes, Headwalls and energy dissipation.

- **14th Street and 22nd Street Roadway Rehabilitation and Water Improvement Project.** *City of Upland, CA* – Mr. Parada Assisted in the design and preparation of 7000' linear feet of watermains ranging from 10" to 4" in diameter of CML&C pipe, pipeline appurtenances, service laterals and fire hydrants. Also 9,000 linear feet of road reconstruction including Pavement rehabilitation, curb, gutter, sidewalks, driveways, drainage structures, ADA accessible Ramps and Signing and striping.
- **8" Raw Water Main – Chino Basin Well Project.** *City of Upland, CA* – Mr. Parada Assisted in the design and preparation of 1500' linear feet of 8" CML&C pipe, pipeline appurtenances, existing and proposed utility easement definition.
- **Bellevue and Vine Streets, alley Water Main Replacement.** *City of San Bernardino, CA* – Mr. Parada Assisted in the design and preparation of 2500' linear feet of 8" CML ductile iron pipe, pipeline appurtenances, service laterals and fire hydrants.
- **I-210 Main Replacement.** *City of San Bernardino, CA* – Mr. Parada Assisted in the design and preparation of 5500' linear feet of watermains ranging from 12" to 4" in diameter of CML ductile iron pipe, pipeline appurtenances, service laterals and fire hydrants.
- **Intermediate Zone 12" Transmission Main – 16th Street, Crestview Avenue and Gilbert Street.** *City of San Bernardino, CA* – Mr. Parada Assisted in the design and preparation of 2000' linear feet of 12" CML ductile iron pipe, pipeline appurtenances and fire hydrants.
- **Meridian Avenue 16" Main Replacement.** *City of San Bernardino, CA* – Mr. Parada Assisted in the design and preparation of 3000' linear feet of 16" CML ductile iron pipe, pipeline appurtenances, service laterals and fire hydrants.
- **Tyler Street, Street Improvements,** *City of Riverside, CA* – The Tyler Street, street improvements project is located in the Southwest Riverside area between Wells Avenue and Hole Avenue. Proposed improvements will provide for corridor beautification and improved traffic and pedestrian safety. Mr. Parada Assisted in the design and preparation of approximately 6,200 linear feet of street widening, bike lane extension and median improvements. Preparation of legal descriptions, right-of-way acquisition plats, temporary construction easement plats and grant and easement deeds for 49 separate parcels.
- **Opal Basin,** *City of Redlands, CA* – Mr. Parada Assisted in the preparation of hydrology and hydraulic analysis, site development and grading design for the proposed Opal Basin which is located on the north east corner of Citrus Avenue and Opal Avenue, in an unincorporated area of the County of San Bernardino. Currently the site is used as a citrus grove and has been for many years. Under the proposed design, the site would be graded to hold 830-acre feet of storm and recharge waters and include a walking trail around the basin. The basin would retain much of the same appearance as

currently exists from the perimeter preserving at the property boundary.

- **Rosemead Boulevard at Telestar Avenue Intersection Improvements, City of El Monte, CA** – Mr. Parada Assisted in the design and preparation of the Rosemead Boulevard at Telestar Avenue Intersection Improvements. The Project is located in the City of El Monte immediately south of the Interstate 10 Freeway on Rosemead Boulevard (SR-19) between Whitmore Street and the Interstate 10 Freeway. Proposed street improvements included traffic signal modification, street widening, pavement rehabilitation, ADA improvements and striping improvements to accommodate truck traffic. The project was a federally funded project (HSIP) which was administered through Caltrans Local Assistance. Services included design, survey and permit acquisition through Caltrans Local Assistance.
- **Street Reconstruction Project CIP No. 812 - CDBG, City of El Monte, CA** – Mr. Parada Assisted in the design and preparation of 4000 linear feet of road reconstruction including Pavement rehabilitation, curb, gutter, sidewalks, driveways, drainage structures, ADA accessible Ramps and restriping.
- **Mead Valley Community Center, Riverside County, CA** – Mr. Parada Assisted in preparation of civil design services including hydraulics, hydrology, WQMP preparation, SWPPP preparation, grading, drainage, sewer, water, and street improvements for the Riverside County Economic Development Agency (Agency) owned Mead Valley Community (MVCC) Center, a 5.4-acre site located on Rider Street, approximately 0.1 mile east of the intersection of Clark Street and Rider Street. The site provides a significant amount of beneficial services to the Mead Valley community, including medical and dental services, child care and teaching services, as well as the more traditional recreational and community room services provided at community centers. The project included 4,000 linear feet of offsite sewer and 1,200 linear feet of offsite water improvements for Eastern Municipal Water District.
- **Dracaea Avenue Improvements, City of Moreno Valley, CA** – Mr. Parada Assisted in the design and preparation of 1500 linear feet of road widening project per city's ultimate development cross section. The project included construction of proposed curb, gutter, sidewalk, curb ramp, utility relocations, storm drain modifications, private improvement restoration and signing and striping.
- **Sunnymead MDP Storm Drain Line F and F-7 Drainage Study – Hemlock Avenue, Sunnymead Boulevard and North of Eucalyptus Avenue Drainage Tributary, City of Moreno Valley, CA** - The City proposed to conduct a study along the tributary area of Hemlock Avenue Between Pigeon pass road and Graham Street to identify the locations and required storm drain systems sizes and inlets to alleviate flooding around the intersections Hemlock Avenue and Graham Street. The proposed storm drain system is within RCFC & WCD Sunnymead area drainage plan. In addition to the proposed storm drain study, the city desired to study the downstream capacities of



existing storm drain infrastructure, particularly a portion of RCFC&WCD line F, to verify that adequate capacity is available to safely convey the additional flows. The study also provided recommendations for improvements to existing storm drains and eliminate flooding on Sunnymead boulevard. Mr. Parada Assisted in the preparation of hydrology and hydraulic analysis, as well as 1500 linear feet of road widening project per city's ultimate development cross section. The project included construction of proposed curb, gutter, sidewalk, curb ramp, utility relocations, storm drain modifications, private improvement restoration and signing and striping.

- **A-04 Drainage Corridor Project, City of Hesperia, CA** - The A-04 Drainage Corridor project is located in the southwesterly portions of the City of Hesperia. The A-04 drainage corridor is the City's largest drainage tributary containing more than 4,380 acres and conveys flows in excess 5,000cfs. The project includes construction of three proposed flood control basins totaling over 1,000 ac-feet of storage and more than 17,000 linear feet of various size storm drain pipe and box culverts, together with inlet and outlet facilities. During moderate and larger storm events, flooding and sediment accumulation occurs along the entire drainage corridor downstream of the proposed project; in particular, on Main Street, one of the highest volume streets in the city. The project will enhance quality, reduce the region's dependence on imported water supplies, and simulate economic development. Mr. Parada Assisted in the preparation of hydrology and hydraulic analysis, as well as Exhibit and data tables for permitting and administration purposes.
- **Calimesa Creek Storm Drainage Improvements, City of Calimesa, CA** - Mr. Parada is currently assisting in the design and preparation of different grading basin configurations, perform earthwork calculations as well as tributary Hydrology and Hydraulic analysis. The Project is located in the City of Calimesa along County Line Road between the Interstate 10 Freeway and 5th Street. The proposed project is planned to provide bank stabilization and storm water management improvements along a 0.6-mile portion of the Calimesa Creek to mitigate erosion and flooding of the earthen channel with undersized street culvert crossings and severely eroded side slopes with near vertical walls. The project will provide 100-year storm protection upstream of the project site and downstream it will reduce peak flow by incorporating a 53 acre-feet detention basin located west of 3rd street and north of the existing Calimesa channel Stage I. Other important benefits including groundwater recharge of storm water, environmental restoration and enhancement, recreational trails and increased protection to existing developments. The project will include environmental assessment and processing, preliminary engineering and project scoping, design, right-of-way acquisition, EPA funding coordination and management and additional drainage system improvements.



JUSTIN P. SCHLAEFLI, P.E., T.E., PTOE

P.E. License Number 74670 (CA)

T.E. License Number 2564 (CA)

Education

Bachelor of Science, Civil Engineering,
San Diego State University 2005

Master Of Civil Engineering, Norwich
University 2007

Certifications

Professional Engineer Traffic Operations

IMSA Level II Signal Technician — Field

Certified Fiber Optic Technician

Affiliations

Former Second Vice President, San
Diego Highway Development
Association

Member National Academy of
Sciences, Transportation Research
Board

Member, Institute of Transportation

Justin has 20 years of experience in the transportation field. He is responsible for managing projects on a day-to-day basis as well as interfacing with other project team members and decision makers/government staff and Contractors. He specializes in Intelligent Transportation Systems, Transportation Planning, Construction, Signal Maintenance, Traffic Engineering and Traffic Operations. He has experience working on both public sector projects as well as private sector development. His experience ranges from construction management and inspection to operations and maintenance. He also has experience conducting traffic studies, specialized access analysis, parking studies, trip generation studies, traffic micro-simulation, signal operations, signal timing, traffic control and design/build of ITS solutions. In addition, Justin has served as a subject matter expert in court, for the State of California and for vendors in the transportation industry. He is also a proud alumnus of San Diego State University where he has served as a guest lecturer and adjunct faculty teaching Transportation Engineering and helping to mentor the next generation in his field.

Through his career, Justin Schlaefli has accumulated truly unique experience in Traffic Engineering. For example, Justin has served as an expert for the State Board of Professional Engineers with respect to creation of the Traffic Engineer license exam. In addition, Justin has served as a qualified expert witness for the US Attorney's office in cases involving traffic accidents and traffic signal timing. In addition, Justin has completed hundreds of traffic and safety studies throughout his career including substantial CEQA/NEPA work. Finally, Justin has overseen design/build projects for signal modification and ITS improvements including projects in Caltrans jurisdiction and involving multi-agency coordination

DETAILED PROJECT EXPERIENCE

- **Mission Bay Drive Adaptive Signal Project**, San Diego, CA - 2016 – Present – Project Engineer and Construction Manager. Currently in its closing phases, Justin has served as trusted advisor, designer and construction manager responsible for introducing the latest technology to the City of San Diego. Work started in the advanced planning phases investigating field conditions and working with City staff to explore technological options for improving seven existing and one future signal on Mission Bay Drive. Justin provided assistance to the City of San Diego in exploring technology vendors and developing system requirements necessary to provide a new Adaptive Traffic Control system for the City. After selecting technology vendors, Justin oversaw the design/build effort to convert seven existing signals and construct one future signal as an Adaptive Traffic Control system using Trafficware's SynchroGreen system. This effort started with project planning, budget review, constructability review, permit application and contractor coordination. Work included communications design, installation, testing and quality assurance,



Engineers

Vice President of Professional Development, San Diego State University Alumni Board of Advisors

Adjunct Faculty, San Diego State University

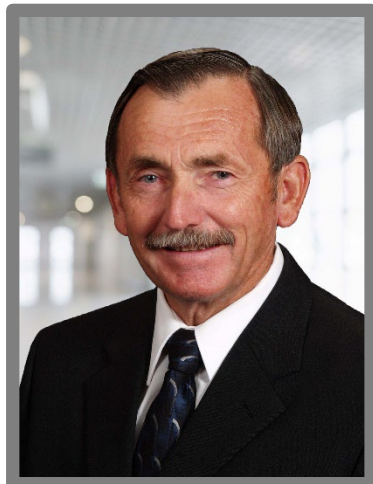
controller replacements, TMC upgrades, ATMS install and configuration (ATMS.now), CCTV installation and configuration and Bluetooth monitoring system installation and configuration. Communications mediums include fiber, twisted pair copper, wireless radios and 4G LTE. The project is currently in it's completion phases.

- **Main Street Synchronization Phase 1 and 2**, Hesperia, CA - 2016 – Present – Project Engineer and Construction Manager. Working with City of Hesperia staff and consultants, Justin served as the primary project manager for the upgrade of sixteen traffic signals on the Main Street Corridor. This project has been completed in two phases with phase 1 completed and operational since 2018 and phase 2 just completed and in it's commissioning phase. Phase 2 involved substantial coordination across two Agencies, Caltrans and the City of Hesperia with the first synchronization/adaptive configuration across Caltrans freeway interchange ramp signals utilizing the technology selected. The project involved signal upgrades, installation of battery backup systems, CCTV cameras, ATMS cloud configuration, communications upgrades, controller replacements, signal timing, traffic control and more. The main technology vendors were Rhythm Engineering's InSync system and Trafficware. Additional quality assurance surveys and full project documentation were also provided along with technology training and maintenance planning. Justin has also provided As-Needed ITS services to the City since 2016 with regular maintenance and upgrade oversight of existing systems.
- **Lusk Boulevard Adaptive Installation and Signal Upgrade**, City of San Diego, CA - 2014 – Project Manager and Construction Management. Justin served as a project manager for this challenging design/build project with the City of San Diego. The project was conceived as a technology trial involving the upgrade of four intersections on Lusk Boulevard in San Diego. Required work involved technology evaluation and discussion, pre-construction planning, design, permitting, review of field conditions and definition of project requirements, installation oversight, coordination with Agency staff, quality assurance, inspection, approval of change orders, project reporting, configuration, training and system commissioning activities. Justin served as overall project manager throughout the process and was responsible for accelerating the project schedule to meet funding requirements. Justin also completed before and after studies and system monitoring for over one year. The project involved controller upgrades, communications upgrade and testing, camera installation, adaptive equipment installation in cabinets, traffic control and reporting. Technology involved McCain 170 controllers, Quicnet and Rhythm Engineering's InSync system.
- **Plan Check for Signal Synchronization System**, Coachella, CA - 2016 – 2010 – Project Manager. Justin served as the project manager providing plan check services for the City of Coachella's Signal Synchronization System project. This work involved field constructability review, plan check and comment and wireless signal testing. Working with City staff and consultant designer, potential issues were discussed including filled and potentially broken conduit, conduit not meeting fiber standards, wireless backhaul testing, location and design of TMC and more. This led to suggested changes as the project moved forward.
- **CV Sync Traffic Signal Synchronization**, Palm Desert, CA- 2020- present- Resident Engineer. Justin serves as the Resident Engineer assisting in



oversight of all construction management aspects for Phase 1 of the CV Sync project (Formerly CVAG TSSPP). This work involves plan review, management and approval of construction scheduling, budget, field work, local agency procedures and more. As the Local Agency Resident Engineer, Justin ensures adherence with applicable State and Federal requirements requiring familiarity with the CAMUTCD, Caltrans Standard Plans, Caltrans Construction Manual, Local Agency Procedures Manual and other applicable standards and documents. This project involves coordination and support across twelve agencies in the Coachella Valley





**RON
MUSSER,
P.L.S.**

TKE Engineering, Inc.

REGISTRATIONS

P.L.S. License Number (CA): 4230

Mr. Musser has over 52 years of experience in performing field and office surveying services for public and private projects including roadway and highway projects. Prior to joining TKE Engineering, Inc., Mr. Musser worked as a Partner in an engineering and surveying firm and supervised the mapping department providing mapping and calculations support for the firm's projects. He has performed design topographic surveying and construction staking on all of TKE's respective design and construction management projects over the past 10 years. In addition, he has prepared records of survey, parcel maps and tract maps in San Bernardino County, Riverside County, San Diego County, Orange County and Los Angeles County. He has performed boundary, topographic, ALTA, and precise level surveys as well as Global Positioning Surveys.

Project Experience

Municipal Experience

- **City of Calimesa, CA** – On-Call Survey and Map Checking Services
- **City of Hesperia, CA** – On-Call Survey and Map Checking Services
- **City of Upland, CA** – On-Call Survey and Map Checking Services
- **City of Wildomar, CA** – On-Call Survey and Map Checking Services

Detailed Project Experience

- **Arrow Highway Pavement Rehabilitation, City of Upland, CA** – Ron is providing survey support for this project, which provides for pavement rehabilitation, water and sewer line installation along Arrow Highway between San Antonio Avenue and 8th Avenue.
- **Arrow Route Improvements, City of Upland, CA** – Mr. Musser is Project Surveyor for this mile long widening of Arrow Route between Monte Vista Avenue and Central Avenue. This project involves coordination with US Army Corps of Engineers, San Bernardino County Flood Control, and compliance with requirements of a wide variety of permit requirements.
- **Fontana Campus Parking Improvements, City of Fontana, CA** – Mr. Musser provided topographic design survey, easement document preparation and construction staking services for the design and reconstruction of three major parking areas across the 26 acre City Hall site to create additional parking space for City Staff, Police and visitors of the civic center area. The project included complete parking lot redevelopment, relocation of existing storm drain lines and catch basins, pedestrian and vehicular access to all buildings within the civic center area and themed landscaping and lighting scenarios. The project provided more than 200 additional parking spaces and increase parking lot efficiency.
- **Foothill Boulevard Median and Traffic Signal Improvements, City of Fontana, CA** – Mr. Musser was the Project Surveyor for this 1,300 linear feet of median, traffic signal modification, and street widening improvements. Mr. Musser provided all topographic design surveying

and construction staking for construction of the project between Sierra Avenue and Mango Avenue. Project components included construction of ultimate street widening, median, curb and gutter, sidewalk, traffic signals, striping, and onsite private improvements.

- **Foothill Boulevard Street Improvements, City of Fontana, CA** – Mr. Musser was the Project Surveyor for this 11,800 linear feet of street widening, sewer and storm drain improvements, bike lane extension and median improvements. The project was separated into two phases from East Avenue to Cherry Avenue and from Cherry Avenue to Hemlock Avenue. Mr. Musser provided all topographic design surveying and construction staking for the construction of ultimate street widening, median, curb and gutter, sidewalk, traffic signals, striping, and onsite private improvements. In addition, Mr. Musser prepared legals, plats and grant deeds for more than twenty right-of-way acquisitions.
- **San Bernardino Avenue Street Improvements, County of San Bernardino, CA** – Mr. Musser was the Project Surveyor for this 8,800 Linear feet of street median, sidewalk, and storm drain improvements. Mr. Musser provided all topographic design surveying and construction staking for construction of ultimate street widening improvements including median, curb and gutter, sidewalk, landscaping, traffic signal modification, striping, storm drain and sewer crossings and private onsite improvements. In addition, Mr. Musser prepared legals, plats and grant deeds for right-of-way acquisition on eight parcels.





KRISTINE MACALMA, E.I.T

TKE Engineering, Inc.

Education

B.S, CIVIL ENGINEERING,
CALIFORNIA STATE POLYTECHNIC
UNIVERSITY, POMONA

Affiliations

INLAND EMPIRE, WOMEN IN
TRANSPORTATION (WTS)

RIVERSIDE-SAN BERNARDINO
COUNTIES BRANCH, AMERICAN
SOCIETY OF CIVIL ENGINEERS
(ASCE)

Ms. Macalma is a Project Manager at TKE and has over 6 years of experience in assisting in engineering drafting and design. Her experience includes transportation improvements, street improvements, utility research, grading plans, construction management assistance, grant preparation, preliminary and final design drawings, specifications and engineer's cost estimates, and water and wastewater facilities including pipelines and water storage reservoirs. Ms. Macalma has been an integral part of projects successfully completed for the City of Calimesa, City of Highland, City of Yucaipa, City of Hesperia, City of Adelanto, City of Fontana, City of Upland, and City of Wildomar.

DETAILED PROJECT EXPERIENCE

- **On-Call Engineering Services** *City of Calimesa*, - Ms. Macalma provides on-call civil engineering and City Engineer services to the City. She is assisting the City in managing more than \$10 million in public improvements. Ms. Macalma has been involved in engineering design of street improvement projects, review of submittals throughout construction, and helping prepare the grant application for County Line Road. She has also worked with other City consultants to prepare the Base Drawings for County Line Road.
- **On-Call Engineering Services**, *City of Highland* – Ms. Macalma provides on-call civil engineering services to the City of Highland for capital improvement project coordination, planning and implementation. She is assisting the City Engineer with more than \$7 million in capital improvements projects for the current fiscal year. Ms. Macalma has been involved in engineering design of street improvement projects, updating City Standard Drawings and helping to prepare material for grant applications.
- **On-Call Engineering Services**, *City of Hesperia* – Ms. Macalma provides on-call civil engineering services to the City, including City Engineer. She managed more than \$20 million in public improvement projects. Ms. Macalma has been involved in engineering design of street improvement projects, helping to prepare material for grant applications, preliminary cost estimates, and hydrology studies. She was also involved in the City Wastewater Treatment Plant Investigation.
- **Article III Sidewalk Improvements Project**, *City of Highland, CA* – Ms. Macalma provided assistant construction management services for the Article III sidewalk improvements project is located throughout the City of Highland. The project includes street widening, sidewalk grinding, drainage improvements, construction of pavement rehabilitation, median and trail construction, removal and reconstruction of concrete sidewalks, curbs and gutters, cross-gutters, bus stop improvements, ADA ramps, bus pads and driveway approaches, construction of catch basins and storm drains, relocation of miscellaneous utilities, and signing and striping at more than 100



individual locations. Services include utility relocation and coordination, construction management, inspection, construction management, and field survey.

- **Construction Management Hillview Neighborhood Improvement Project, City of Highland, CA** – Ms. Macalma provided assistant construction management services for the City of Highland for street and storm drain improvements project on Hillview Street and Cunningham Street between 9th Street and Base Line in the City of Highland. The project included construction of approximately one mile of pavement rehabilitation; construction of concrete sidewalks, curbs and gutters, cross-gutters, ADA ramps, and driveway approaches; construction of catch basins and storm drains; relocation of 25 power poles and miscellaneous utilities; raising of various utility manholes/valves and installation of traffic signing and striping. Services included CalRecycle Grant coordination, value engineering, right-of-entry acquisition, utility relocation and coordination, construction management, inspection, and coordination with property owners.
- **14th Street Pavement Rehabilitation and Water Improvements City of Upland, CA**– Ms. Macalma performed assistant construction management services for the 14th Street Pavement Rehabilitation and Water Main Replacement Project located in the City of Upland. The project included approximately 3,100 Linear Feet of 8" Water Main Replacement and Pavement Rehabilitation. The project consisted of street pavement rehabilitation and/or reconstruction; removal and replacement of displaced curb and gutter, sidewalk, driveway approaches, and ADA curb ramps; installation of potable water mains with associated appurtenances on 14th Street from Euclid Avenue to Campus Avenue. Services included topographic surveying, design, utility coordination, cost estimating, traffic control preparation, and construction staking.
- **Sterling Avenue and Water Street Sidewalk and Bike Lane Improvements and Base Line, Central Avenue, and Sterling Avenue ADA and Bus Stop Access Improvements Project, City of Highland, CA** – Ms. Macalma provided assistant construction management services for the City of Highland for the street, ADA, and bus stop access improvements on Sterling Avenue between 9th Street and Base Line, on Water Street between Church Street and Weaver Street, and at various locations along Base Line, Central Avenue, and Sterling Avenue in the City of Highland. The project included construction of approximately 850 linear feet of pavement rehabilitation; construction of concrete sidewalks, curbs and gutters, ADA ramps, and driveway approaches; and installation of traffic signing and striping. Services included value engineering, right-of-entry acquisition, construction management, inspection, and coordination with property owners.

SECTION E | FIRM RESOURCE

1. RESOURCES

TKE has strived to develop techniques that reach outside the box and develop well rounded individuals committed to providing high quality, efficient services to meet all of our clients' needs. TKE trains our staff on every facet of engineering design and construction to provide a level of knowledge that can identify problems in every phase of a design project, prior to errors being identified during construction. It is this commitment to service and diverse array of offerings that makes us unique and drives our long-standing relationships with our client base. Understanding that all aspects of design are important and time sensitive to ensure MSWD's interests are protected, our team brings TKE management level professionals to projects ensuring that every aspect receives full, timely and comprehensive consideration. It is this personal touch and contact that define our 'local service' approach. We consider ourselves community builders and take ownership of services requested from TKE, ensuring that our personnel will be allocated on an as needed basis in order to complete all services on schedule and within specified budget. TKE is committed to responding to our clients' needs as they arise.

TKE is aware of MSWD's need to complete this street improvement project on schedule. We are committed to providing design services as requested in the RFP to ensure all projects elements are completed on schedule. TKE's proactive project management approach ensures we rarely experience 'crisis' project delivery needs. When requested by a client, TKE will add resources, commit extended work hours, develop an efficient implementation plan and other efforts as needed.

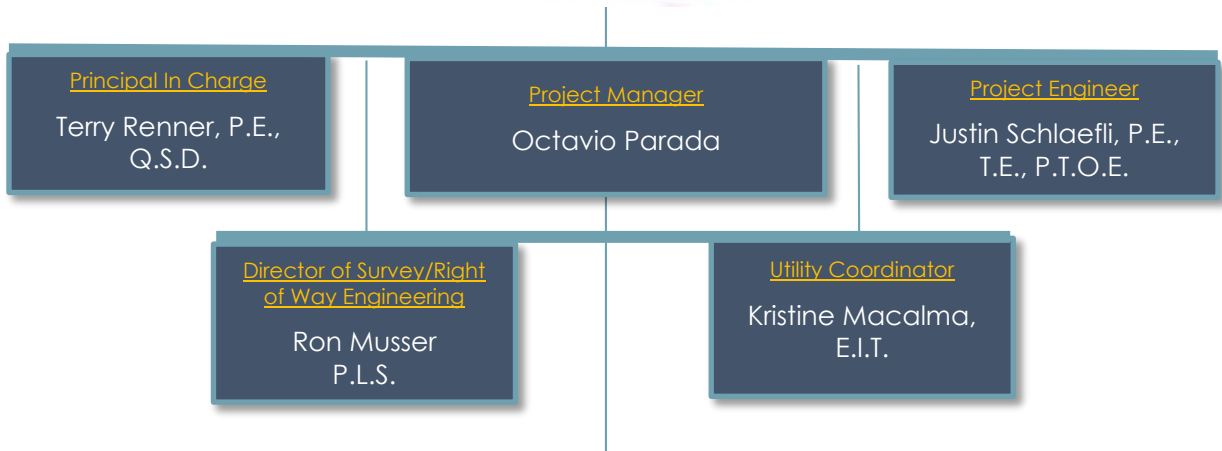
2. AVAILABILITY TO PERFORM WORK

TKE is committed to completing all of the services required to meet MSWD's schedule. TKE will always find MSWD as a priority client. As such, resources needed to complete the required tasks will be provided.

TKE has extensive experience with the project area and an excellent reputation in the provision of project management services for street improvement projects for municipal agencies. Throughout our history, we have provided design engineering services for more than one hundred miles of street improvement projects. We have successfully completed complex and challenging projects for more than 40 municipal agencies who have continued to request that we partner with them in delivering value to their communities.



3. ORGANIZATIONAL CHART

SUPPORT TEAM
(40+ Members)

Michael P. Thornton P.E., P.L.S. | *President*

Steven Ledbetter, P.E. | *Vice President*

Michelle Arellano, P.E. | *Senior Plan Check Engineer*

Brett Enscoe | *Survey Party Chief*

Mycal Balta | *Survey*

Steve Dukett | *Managing Director Development Services*

Kathleen Robles | *Development Project Manager*

Monae Pugh | *Traffic Engineering Specialist*

Patrick Palafox | *Senior Public Works Inspector*

Brad Enscoe | *Senior Public Works Inspector*

Stephen Biscotti | *Senior Public Works Inspector*

Tyler Ault | *Senior Public Works Inspector*

Jeff Lantosh | *Senior Public Works Inspector*

Brian McDuffie | *Senior Public Works Inspector*

Nelson Blackwell | *Senior Public Works Inspector*

Michael Counce | *Senior Public Works Inspector*

Aly Janiskee | *Marketing Manager*

Cynthia Sotelo | *Proposal Coordinator*

Michelle Sells | *Accounting/Office Manager*

Tracey McLoughlin | *Clerical*

Bob Doss, P.E. | *Project Manager*

Jennifer Cioffi, P.E. | *Project Manager*

Steve Nix, P.E., P.L.S. | *Senior Engineer*

Brian Wolfe, P.E. | *Senior Engineer*

Marvin Lara, EIT | *Associate Engineer*

Travis Bradshaw | *Assistant Engineer*

Shelby Kelley, EIT | *Associate Engineer*

Jose Martinez | *Associate Engineer*

Alex Estepa | *Associate Engineer*

Jose Hernandez | *Associate Engineer*

Metehan Gumustekin E.I.T. | *Associate Engineer*

Chance Renner | *Associate Engineer*

Jayden Renner | *Engineering Technician*

Nyasha Burnatte | *Engineering Technician*

Emmanuel Perez | *Engineering Technician*

Daniel Melero | *Engineering Technician*

Deana Vilches | *Clerical*

Brian Chu | *Engineering Technician*

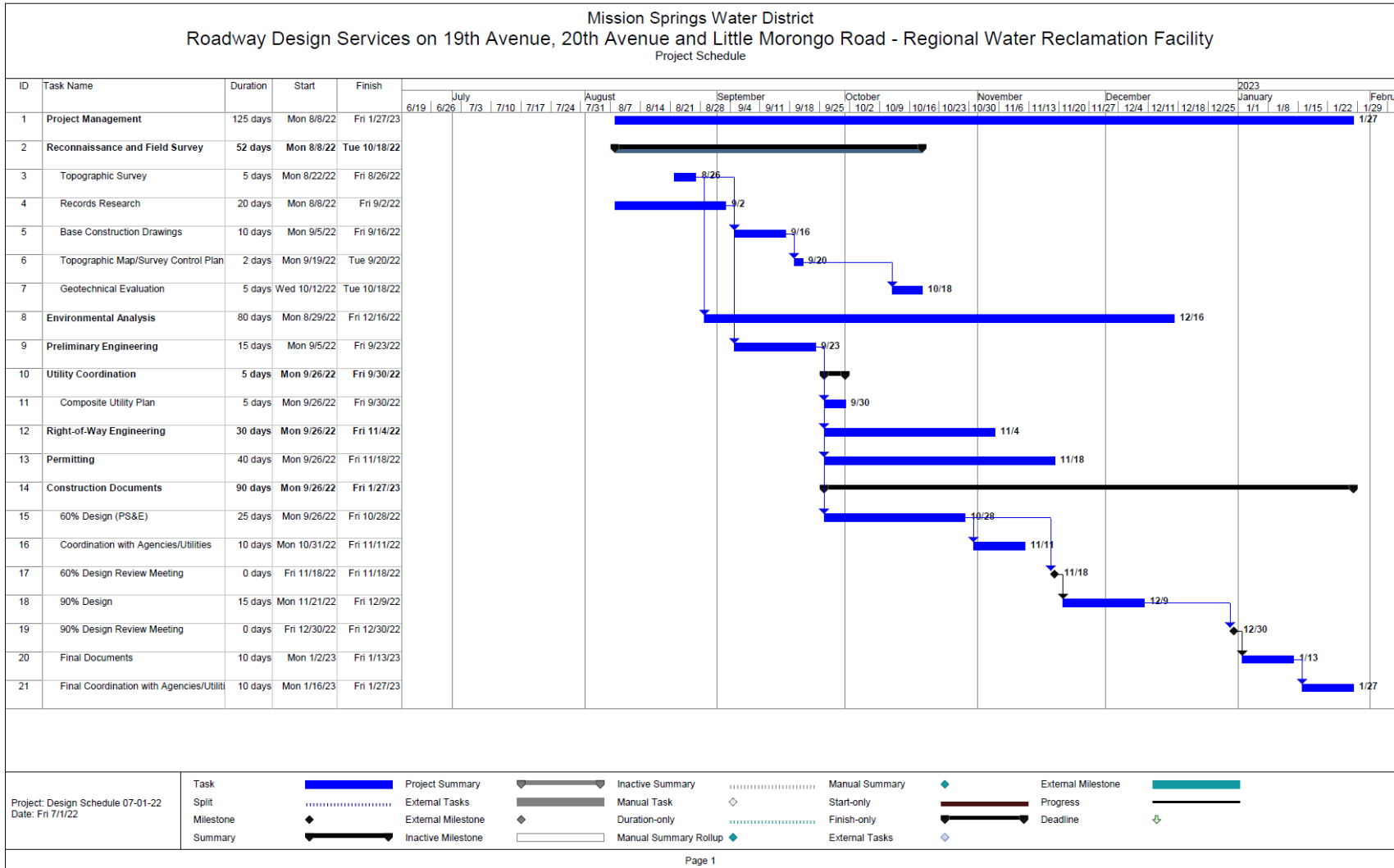
Jeannette Barlow | *Administrative Assistant*



On-Call Professional Services for Construction Management and Inspection of Capital and Development Projects

Mission Springs Water District







Prepared by:



TKE Engineering, Inc.
2305 Chicago Ave.
Riverside, CA, 92507

w w w . T K E e n g i n e e r i n g . c o m

EXHIBIT B

Term, Early Termination & Notice

Civil Engineering and Roadway Design Services on Avenue 19, Avenue 20, and Little Morongo Road

A. Term of Agreement

This professional services agreement shall be effective upon approval by the parties thereof and shall expire upon (18) eighteen months from the effective Agreement DATE therein. This contract also terminates and replaces any previous agreements between the Mission Springs Water District and TKE Engineering, Inc., for Civil Engineering and Roadway Design Services on Avenue 19, Avenue 20, and Little Morongo Road in force prior to the effective date of this agreement.

B. Early Termination of Agreement

This agreement may be terminated at any time upon a thirty (30) day written notice from either party, and without fault or claim for damages by either party.

C. Notice

All correspondence and Notices will be sent to the following addresses as noted below for Mission Springs Water District and TKE Engineering, Inc.

OWNER

Attn: Eric Weck
Mission Springs Water District
66575 Second Street
Desert Hot Springs, CA 92240

CONSULTANT

Attn: Steve Ledbetter
TKE Engineering, Inc.
2305 Chicago Avenue
Riverside, CA 92507