#### PROFESSIONAL CONSULTANT SERVICES AGREEMENT

#### DESIGN SERVICES INC. DBA BENYA BURNETT CONSULTANCY

for City-wide Street Light LED Conversion Program

THIS PROFESSIONAL	CONSULTANT	SERVICES AGREEME	NT ("Agreement") is
made and entered into this	day of	, 20(	"Effective Date"), by
and between the CITY OF R	IVERSIDE ("Cit	ty"), a California charter	city and municipal
corporation and DESIGN SER	VICES, INC. DI	BA BENYA BURNETT	CONSULTANCY, a
Tennessee corporation authorize	ed to do business i	n California ("Consultant"	").

- 1. **Scope of Services**. City agrees to retain and does hereby retain Consultant and Consultant agrees to provide the services more particularly described in Exhibit "A," "Scope of Services" ("Services"), attached hereto and incorporated herein by reference, in conjunction with City-wide Street Light LED Conversion Program ("Project").
- 2. **Term**. This Agreement shall be effective on the date first written above and shall remain in effect for three years, unless otherwise terminated pursuant to the provisions herein.
- 3. **Compensation/Payment**. Consultant shall perform the Services under this Agreement for the total sum not to exceed Eight Hundred Fifty Five Thousand Two Hundred and Ninety Dollars (\$855,290.00) payable in accordance with the terms set forth in Exhibit "B." Said payment shall be made in accordance with City's usual accounting procedures upon receipt and approval of an itemized invoice setting forth the services performed. The invoices shall be delivered to City at the address set forth in Section 4 hereof.
- 4. **Notices**. Any notices required to be given, hereunder shall be in writing and shall be personally served or given by mail. Any notice given by mail shall be deemed given when deposited in the United States Mail, certified and postage prepaid, addressed to the party to be served as follows:

### To City

Riverside Public Utilities City of Riverside Attn: Public Utilities General Manager 3750 University Avenue, Third Floor Riverside, CA 92501-3335

### To Consultant

Design Services Inc. dba Benya Burnett Consultancy Attn: James Benya, PE, FIES, FIALD 501 Fillmore Court Davis, CA 95616-3034

- 5. **Prevailing Wage**. If applicable, Consultant and all subcontractors are required to pay the general prevailing wage rates of per diem wages and overtime and holiday wages determined by the Director of the Department of Industrial Relations under Section 1720 et seq. of the California Labor Code and implemented by Resolution No. 13346 of the City Council of the City of Riverside. The Director's determination is available on-line at <a href="https://www.dir.ca.gov/dlsr/DPreWageDetermination.htm">www.dir.ca.gov/dlsr/DPreWageDetermination.htm</a> and is referred to and made a part hereof; the wage rates therein ascertained, determined, and specified are referred to and made a part hereof as though fully set forth herein.
- 6. **Contract Administration**. A designee of the City will be appointed in writing by the City Manager or Department Director to administer this Agreement on behalf of City and shall be referred to herein as Contract Administrator.
- 7. **Standard of Performance**. While performing the Services, Consultant shall exercise the reasonable professional care and skill customarily exercised by reputable members of Consultant's profession practicing in the Metropolitan Southern California Area, and shall use reasonable diligence and best judgment while exercising its professional skill and expertise.
- 8. **Personnel**. Consultant shall furnish all personnel necessary to perform the Services and shall be responsible for their performance and compensation. Consultant recognizes that the qualifications and experience of the personnel to be used are vital to professional and timely completion of the Services. The key personnel listed in Exhibit "C" attached hereto and incorporated herein by this reference and assigned to perform portions of the Services shall remain assigned through completion of the Services, unless otherwise mutually agreed by the parties in writing, or caused by hardship or resignation in which case substitutes shall be subject to City approval.
- 9. Assignment and Subcontracting. Neither party shall assign any right, interest, or obligation in or under this Agreement to any other entity without prior written consent of the other party. In any event, no assignment shall be made unless the assignee expressly assumes the obligations of assignor under this Agreement, in a writing satisfactory to the parties. Consultant acknowledges that any assignment may, at the City's sole discretion, require City Manager and/or City Council approval. Consultant shall not subcontract any portion of the work required by this Agreement without prior written approval by the responsible City Contract Administrator. Subcontracts, if any, shall contain a provision making them subject to all provisions stipulated in this Agreement, including without limitation, the insurance obligations set forth in Section 12. The Consultant acknowledges and agrees that the City is an intended beneficiary of any work performed by any subcontractor for purposes of establishing a duty of care between any subcontractor and the City.
- 10. **Independent Contractor**. In the performance of this Agreement, Consultant, and Consultant's employees, subcontractors and agents, shall act in an independent capacity as independent contractors, and not as officers or employees of the City of Riverside. Consultant acknowledges and agrees that the City has no obligation to pay or withhold state or federal taxes or to provide workers' compensation or unemployment insurance to Consultant, or to Consultant's employees, subcontractors and agents. Consultant, as an independent contractor, shall be responsible for any and all taxes that apply to Consultant as an employer.

#### 11. Indemnification.

- 11.1 **Design Professional Defined**. For purposes of this Agreement, "Design Professional" includes the following:
  - A. An individual licensed as an architect pursuant to Chapter 3 (commencing with Section 5500) of Division 3 of the Business and Professions Code, and a business entity offering architectural services in accordance with that chapter.
  - B. An individual licensed as a landscape architect pursuant to Chapter 3.5 (commencing with Section 5615) of Division 3 of the Business and Professions Code, and a business entity offering landscape architectural services in accordance with that chapter.
  - C. An individual registered as a professional engineer pursuant to Chapter 7 (commencing with Section 6700) of Division 3 of the Business and Professions Code, and a business entity offering professional engineering services in accordance with that chapter.
  - D. An individual licensed as a professional land surveyor pursuant to Chapter 15 (commencing with Section 8700) of Division 3 of the Business and Professions Code, and a business entity offering professional land surveying services in accordance with that chapter.
- 11.2 **Defense Obligation For Design Professional Liability**. Consultant agrees, at its cost and expense, to promptly defend the City, and the City's employees, officers, managers, agents and council members (collectively the "Parties to be Defended") from and against any and all claims, allegations, lawsuits, arbitration proceedings, administrative proceedings, regulatory proceedings, or other legal proceedings to the extent the same arise out of, pertain to, or relate to the negligence, recklessness or willful misconduct of Consultant, or anyone employed by or working under the Consultant or for services rendered to the Consultant in the performance of the Agreement, notwithstanding that the City may have benefited from its work or services and whether or not caused in part by the negligence of an Indemnified Party. Consultant agrees to provide this defense immediately upon written notice from the City, and with well qualified, adequately insured and experienced legal counsel acceptable to City. This obligation to defend as set forth herein is binding on the successors, assigns and heirs of Consultant and shall survive the termination of Consultant's Services under this Agreement.
- 11.3 Indemnity For Design Professional Liability. When the law establishes a professional standard of care for Consultant's services, to the fullest extent permitted by law, Consultant shall indemnify, protect and hold harmless the City and the City's employees, officers, managers, agents, and Council Members ("Indemnified Parties") from and against any and all claim for damage, charge, lawsuit, action, judicial, administrative, regulatory or arbitration proceeding, damage, cost, expense (including counsel and expert fees), judgment, civil fines and penalties, liabilities or losses of any kind or nature whatsoever to the extent the same arise out of, pertain to, or relate to the negligence, recklessness or willful misconduct of Consultant, or anyone

employed by or working under the Consultant or for services rendered to the Consultant in the performance of the Agreement, notwithstanding that the City may have benefited from its work or services and whether or not caused in part by the negligence of an Indemnified Party.

- Defense Obligation For Other Than Design Professional Liability. Consultant agrees, at its cost and expense, to promptly defend the City, and the City's employees, officers, managers, agents and council members (collectively the "Parties to be Defended") from and against any and all claims, allegations, lawsuits, arbitration proceedings, administrative proceedings, regulatory proceedings, or other legal proceedings which arise out of, or relate to, or are in any way connected with: 1) the Services, work, activities, operations, or duties of the Consultant, or of anyone employed by or working under the Consultant, or 2) any breach of the Agreement by the Consultant. This duty to defend shall apply whether or not such claims, allegations, lawsuits or proceedings have merit or are meritless, or which involve claims or allegations that any or all of the Parties to be Defended were actively, passively, or concurrently negligent, or which otherwise assert that the Parties to be Defended are responsible, in whole or in part, for any loss, damage or injury. Consultant agrees to provide this defense immediately upon written notice from the City, and with well qualified, adequately insured and experienced legal counsel acceptable to City. This obligation to defend as set forth herein is binding on the successors, assigns and heirs of Consultant and shall survive the termination of Consultant's Services under this Agreement.
- the sole negligence or willful misconduct of the City, Consultant agrees to indemnify, protect and hold harmless the Indemnified Parties from and against any claim for damage, charge, lawsuit, action, judicial, administrative, regulatory or arbitration proceeding, damage, cost, expense (including counsel and expert fees), judgment, civil fine and penalties, liabilities or losses of any kind or nature whatsoever whether actual, threatened or alleged, which arise out of, pertain to, or relate to, or are a consequence of, or are attributable to, or are in any manner connected with the performance of the Services, work, activities, operations or duties of the Consultant, or anyone employed by or working under the Consultant or for services rendered to Consultant in the performance of this Agreement, notwithstanding that the City may have benefited from its work or services. This indemnification provision shall apply to any acts, omissions, negligence, recklessness, or willful misconduct, whether active or passive, on the part of the Consultant or anyone employed or working under the Consultant.

#### 12. Insurance.

- 12.1 **General Provisions**. Prior to the City's execution of this Agreement, Consultant shall provide satisfactory evidence of, and shall thereafter maintain during the term of this Agreement, such insurance policies and coverages in the types, limits, forms and ratings required herein. The rating and required insurance policies and coverages may be modified in writing by the City's Risk Manager or City Attorney, or a designee, unless such modification is prohibited by law.
- 12.1.1 **Limitations**. These minimum amounts of coverage shall not constitute any limitation or cap on Consultant's indemnification obligations under Section 11 hereof.

- 12.1.2 **Ratings**. Any insurance policy or coverage provided by Consultant or subcontractors as required by this Agreement shall be deemed inadequate and a material breach of this Agreement, unless such policy or coverage is issued by insurance companies authorized to transact insurance business in the State of California with a policy holder's rating of A or higher and a Financial Class of VII or higher.
- 12.1.3 Cancellation. The policies shall not be canceled unless thirty (30) days prior written notification of intended cancellation has been given to City by certified or registered mail, postage prepaid.
- 12.1.4 Adequacy. The City, its officers, employees and agents make no representation that the types or limits of insurance specified to be carried by Consultant pursuant to this Agreement are adequate to protect Consultant. If Consultant believes that any required insurance coverage is inadequate, Consultant will obtain such additional insurance coverage as Consultant deems adequate, at Consultant's sole expense.
- Consultant certifies that Consultant is aware of and will comply with Section 3700 of the Labor Code of the State of California requiring every employer to be insured against liability for workers' compensation, or to undertake self-insurance before commencing any of the work. Consultant shall carry the insurance or provide for self-insurance required by California law to protect said Consultant from claims under the Workers' Compensation Act. Prior to City's execution of this Agreement, Consultant shall file with City either 1) a certificate of insurance showing that such insurance is in effect, or that Consultant is self-insured for such coverage, or 2) a certified statement that Consultant has no employees, and acknowledging that if Consultant does employ any person, the necessary certificate of insurance will immediately be filed with City. Any certificate filed with City shall provide that City will be given ten (10) days prior written notice before modification or cancellation thereof.
- City's execution of this Agreement, Consultant shall obtain, and shall thereafter maintain during the term of this Agreement, commercial general liability insurance and automobile liability insurance as required to insure Consultant against damages for personal injury, including accidental death, as well as from claims for property damage, which may arise from or which may concern operations by anyone directly or indirectly employed by, connected with, or acting for or on behalf of Consultant. The City, and its officers, employees and agents, shall be named as additional insureds under the Consultant's insurance policies.
- 12.3.1 Consultant's commercial general liability insurance policy shall cover both bodily injury (including death) and property damage (including, but not limited to, premises operations liability, products-completed operations liability, independent contractor's liability, personal injury liability, and contractual liability) in an amount not less than \$1,000,000 per occurrence and a general aggregate limit in the amount of not less than \$2,000,000.
- 12.3.2 Consultant's automobile liability policy shall cover both bodily injury and property damage in an amount not less than \$1,000,000 per occurrence and an aggregate

limit of not less than \$1,000,000. All of Consultant's automobile and/or commercial general liability insurance policies shall cover all vehicles used in connection with Consultant's performance of this Agreement, which vehicles shall include, but are not limited to, Consultant owned vehicles, Consultant leased vehicles, Consultant's employee vehicles, non-Consultant owned vehicles and hired vehicles.

12.3.3 Prior to City's execution of this Agreement, copies of insurance policies or original certificates along with additional insured endorsements acceptable to the City evidencing the coverage required by this Agreement, for both commercial general and automobile liability insurance, shall be filed with City and shall include the City and its officers, employees and agents, as additional insureds. Said policies shall be in the usual form of commercial general and automobile liability insurance policies, but shall include the following provisions:

It is agreed that the City of Riverside, and its officers, employees and agents, are added as additional insureds under this policy, solely for work done by and on behalf of the named insured for the City of Riverside.

12.3.4 The insurance policy or policies shall also comply with the following provisions:

- a. The policy shall be endorsed to waive any right of subrogation against the City and its sub-consultants, employees, officers and agents for services performed under this Agreement.
- b. If the policy is written on a claims made basis, the certificate should so specify and the policy must continue in force for one year after completion of the services. The retroactive date of coverage must also be listed.
- c. The policy shall specify that the insurance provided by Consultant will be considered primary and not contributory to any other insurance available to the City and Endorsement No. CG 20010413 shall be provided to the City.
- 12.4 Errors and Omissions Insurance. Prior to City's execution of this Agreement, Consultant shall obtain, and shall thereafter maintain during the term of this Agreement, errors and omissions professional liability insurance in the minimum amount of \$1,000,000 to protect the City from claims resulting from the Consultant's activities.
- 12.5 **Subcontractors' Insurance**. Consultant shall require all of its subcontractors to carry insurance, in an amount sufficient to cover the risk of injury, damage or loss that may be caused by the subcontractors' scope of work and activities provided in furtherance of this Agreement, including, but without limitation, the following coverages: Workers Compensation, Commercial General Liability, Errors and Omissions, and Automobile liability. Upon City's request, Consultant shall provide City with satisfactory evidence that Subcontractors have obtained insurance policies and coverages required by this section.

- 13. **Business Tax.** Consultant understands that the Services performed under this Agreement constitutes doing business in the City of Riverside, and Consultant agrees that Consultant will register for and pay a business tax pursuant to Chapter 5.04 of the Riverside Municipal Code and keep such tax certificate current during the term of this Agreement.
- 14. **Time of Essence**. Time is of the essence for each and every provision of this Agreement.
- 15. City's Right to Employ Other Consultants. City reserves the right to employ other Consultants in connection with the Project. If the City is required to employ another consultant to complete Consultant's work, due to the failure of the Consultant to perform, or due to the breach of any of the provisions of this Agreement, the City reserves the right to seek reimbursement from Consultant.
- 16. Accounting Records. Consultant shall maintain complete and accurate records with respect to costs incurred under this Agreement. All such records shall be clearly identifiable. Consultant shall allow a representative of City during normal business hours to examine, audit, and make transcripts or copies of such records and any other documents created pursuant to this Agreement. Consultant shall allow inspection of all work, data, documents, proceedings, and activities related to the Agreement for a period of three (3) years from the date of final payment under this Agreement.
- 17. Confidentiality. All ideas, memoranda, specifications, plans, procedures, drawings, descriptions, computer program data, input record data, written information, and other materials either created by or provided to Consultant in connection with the performance of this Agreement shall be held confidential by Consultant, except as otherwise directed by City's Contract Administrator. Nothing furnished to Consultant which is otherwise known to the Consultant or is generally known, or has become known, to the related industry shall be deemed confidential. Consultant shall not use City's name or insignia, photographs of the Project, or any publicity pertaining to the Services or the Project in any magazine, trade paper, newspaper, television or radio production, website, or other similar medium without the prior written consent of the City.
- 18. Ownership of Documents. All reports, maps, drawings and other contract deliverables prepared under this Agreement by Consultant shall be and remain the property of City. Consultant shall not release to others information furnished by City without prior express written approval of City.
- 19. Copyrights. Consultant agrees that any work prepared for City which is eligible for copyright protection in the United States or elsewhere shall be a work made for hire. If any such work is deemed for any reason not to be a work made for hire, Consultant assigns all right, title and interest in the copyright in such work, and all extensions and renewals thereof, to City, and agrees to provide all assistance reasonably requested by City in the establishment, preservation and enforcement of its copyright in such work, such assistance to be provided at City's expense but without any additional compensation to Consultant. Consultant agrees to waive all moral rights relating to the work developed or produced, including without limitation any and all rights

of identification of authorship and any and all rights of approval, restriction or limitation on use or subsequent modifications.

- 20. **Conflict of Interest.** Consultant, for itself and on behalf of the individuals listed in Exhibit "C", represents and warrants that by the execution of this Agreement, they have no interest, present or contemplated, in the Project affected by the above-described Services. Consultant further warrants that neither Consultant, nor the individuals listed in Exhibit "C" have any real property, business interests or income interests that will be affected by this project or, alternatively, that Consultant will file with the City an affidavit disclosing any such interest.
- 21. Solicitation. Consultant warrants that Consultant has not employed or retained any person or agency to solicit or secure this Agreement, nor has it entered into any agreement or understanding for a commission, percentage, brokerage, or contingent fee to be paid to secure this Agreement. For breach of this warranty, City shall have the right to terminate this Agreement without liability and pay Consultant only for the value of work Consultant has actually performed, or, in its sole discretion, to deduct from the Agreement price or otherwise recover from Consultant the full amount of such commission, percentage, brokerage or commission fee. The remedies specified in this section shall be in addition to and not in lieu of those remedies otherwise specified in this Agreement.
- 22. General Compliance With Laws. Consultant shall keep fully informed of federal, state and local laws and ordinances and regulations which in any manner affect those employed by Consultant, or in any way affect the performance of services by Consultant pursuant to this Agreement. Consultant shall at all times observe and comply with all such laws, ordinances and regulations, and shall be solely responsible for any failure to comply with all applicable laws, ordinances and regulations. Consultant represents and warrants that Consultant has obtained all necessary licenses to perform the Scope of Services and that such licenses are in good standing. Consultant further represents and warrants that the services provided herein shall conform to all ordinances, policies and practices of the City of Riverside.
- 23. Waiver. No action or failure to act by the City shall constitute a waiver of any right or duty afforded City under this Agreement, nor shall any such action or failure to act constitute approval of or acquiescence in any breach thereunder, except as may be specifically, provided in this Agreement or as may be otherwise agreed in writing.
- 24. **Amendments**. This Agreement may be modified or amended only by a written agreement and/or change order executed by the Consultant and City.
- 25. **Termination**. City, by notifying Consultant in writing, shall have the right to terminate any or all of Consultant's services and work covered by this Agreement at any time. In the event of such termination, Consultant may submit Consultant's final written statement of the amount of Consultant's services as of the date of such termination based upon the ratio that the work completed bears to the total work required to make the report complete, subject to the City's rights under Sections 15 and 26 hereof. In ascertaining the work actually rendered through the termination date, City shall consider completed work, work in progress and complete and incomplete reports and other documents only after delivered to City.

- 25.1 Other than as stated below, City shall give Consultant thirty (30) days prior written notice prior to termination.
- 25.2 City may terminate this Agreement upon fifteen (15) days written notice to Consultant, in the event:
- 25.2.1 Consultant substantially fails to perform or materially breaches the Agreement; or
  - 25.2.2 City decides to abandon or postpone the Project.
- Offsets. Consultant acknowledges and agrees that with respect to any business tax or penalties thereon, utility charges, invoiced fee or other debt which Consultant owes or may owe to the City, City reserves the right to withhold and offset said amounts from payments or refunds or reimbursements owed by City to Consultant. Notice of such withholding and offset, shall promptly be given to Consultant by City in writing. In the event of a dispute as to the amount owed or whether such amount is owed to the City, City will hold such disputed amount until either the appropriate appeal process has been completed or until the dispute has been resolved.
- 27. Successors and Assigns. This Agreement shall be binding upon City and its successors and assigns, and upon Consultant and its permitted successors and assigns, and shall not be assigned by Consultant, either in whole or in part, except as otherwise provided in paragraph 9 of this Agreement.
- 28. Venue. Any action at law or in equity brought by either of the parties hereto for the purpose of enforcing a right or rights provided for by this Agreement shall be tried in a court of competent jurisdiction in the County of Riverside, State of California, and the parties hereby waive all provisions of law providing for a change of venue in such proceedings to any other county. In the event either party hereto shall bring suit to enforce any term of this Agreement or to recover any damages for and on account of the breach of any term or condition of this Agreement, it is mutually agreed that each party will bear their own attorney's fees and costs.
- 29. **Nondiscrimination**. During Consultant's performance of this Agreement, Consultant shall not discriminate on the grounds of race, religious creed, color, national origin, ancestry, age, physical disability, mental disability, medical condition, including the medical condition of Acquired Immune Deficiency Syndrome (AIDS) or any condition related thereto, marital status, sex, genetic information, gender, gender identity, gender expression, or sexual orientation, in the selection and retention of employees and subcontractors and the procurement of materials and equipment, except as provided in Section 12940 of the California Government Code. Further, Consultant agrees to conform to the requirements of the Americans with Disabilities Act in the performance of this Agreement.
- 30. Severability. Each provision, term, condition, covenant and/or restriction, in whole and in part, of this Agreement shall be considered severable. In the event any provision, term, condition, covenant and/or restriction, in whole and/or in part, of this Agreement is declared invalid, unconstitutional, or void for any reason, such provision or part thereof shall be severed from this Agreement and shall not affect any other provision, term, condition, covenant and/or

restriction of this Agreement, and the remainder of the Agreement shall continue in full force and effect.

- 31. **Authority**. The individuals executing this Agreement and the instruments referenced herein on behalf of Consultant each represent and warrant that they have the legal power, right and actual authority to bind Consultant to the terms and conditions hereof and thereof.
- 32. **Entire Agreement**. This Agreement constitutes the final, complete, and exclusive statement of the terms of the agreement between the parties pertaining to the subject matter of this Agreement, and supersedes all prior and contemporaneous understandings or agreements of the parties. Neither party has been induced to enter into this Agreement by and neither party is relying on, any representation or warranty outside those expressly set forth in this Agreement.
- 33. **Interpretation**. City and Consultant acknowledge and agree that this Agreement is the product of mutual arms-length negotiations and accordingly, the rule of construction, which provides that the ambiguities in a document shall be construed against the drafter of that document, shall have no application to the interpretation and enforcement of this Agreement.
- 33.1 Titles and captions are for convenience of reference only and do not define, describe or limit the scope or the intent of the Agreement or any of its terms. Reference to section numbers, are to sections in the Agreement unless expressly stated otherwise.
- 33.2 This Agreement shall be governed by and construed in accordance with the laws of the State of California in effect at the time of the execution of this Agreement.
- 33.3 In the event of a conflict between the body of this Agreement and Exhibit "A" Scope of Services hereto, the terms contained in Exhibit "A" shall be controlling.
- 34. **Exhibits**. The following exhibits attached hereto are incorporated herein to this Agreement by this reference:

Exhibit "A" - Scope of Services

Exhibit "B" - Compensation

Exhibit "C" - Key Personnel

IN WITNESS WHEREOF, City and Consultant have caused this Agreement to be duly executed the day and year first above written.

CITY OF RIVERSIDE, a California charter city and municipal corporation	DESIGN SERVICES, INC. DBA BENYA BURNETT CONSULTANCY
a California corporation	a Tennessee corporation authorized to do business
Devi	in Caifornia
By:City Manager	Ву:
	DEBORAH PARNETT
Attest:	[Printed Name],
City Clerk	[Title]
	By: James Benya  [Bristed News]
	James Benya
Approved as to Form:	[Printed Name]
By: Susan welso	Secretary [Title]
Assistant City Attorney	

# EXHIBIT "A" SCOPE OF SERVICES

### Introduction

This proposal is offered in response to City of Riverside RFP 1569 for the City-Wide Street Lighting Conversion Program. This update includes the results of a meeting with RPU and other key personnel in Riverside on April 19, exchanges between us and RPU team leaders involving scope of project, and our revised schedule and services portions of this document based on those meetings and clarifications.

The City of Riverside (The City) is pursuing an ambitious program to upgrade its streetlights to the new LED technology, paving the way for its Smart City plans. Design Services, Inc. (DSI) has carefully reviewed the City's RFP and developed this proposal to address all key requirements. We are currently providing the master lighting design for sixteen (16) jurisdictions within the Western Riverside Council of Government, which The City is an active member. As a result we are rapidly becoming familiar with existing lighting standards created to mitigate light pollution adversely impacting the Mt. Palomar Observatory. As professional lighting engineers, we welcome the opportunity to assist The City achieve its goals, while assuring its lighting design harmonizes with WRCOG regional lighting design, helping build a stronger region led by The City of Riverside.

## Significant Project Issues

Our work plan is built around the following potentially significant issues. We have made reasonable allocations for the necessary time to work out these issues with City staff and other concerned parties.

- 1. The City's current Lighting Standards are not consistent with the new IES RP-8-14. We assume the need for completely new Standards for the City.
- 2. Some of the existing lighting may not meet either the City's current standards or IES RP-8-14 and this cannot be easily resolved by changing the luminaires to LED. We assume a completely new Design Manual for most of the lighting and we will have to resolve the problems this will likely raise.
- 3. The City's Standards and Manual should also address IES Publication DG-21-15, Design Guide for Residential Street Lighting.
- 4. The impact of Cultural and Heritage concerns is significant. We expect to encounter both technical and cultural/historic design challenges that may complicate conversions to LED lighting and the addition of control networking devices, especially sensors.
- 5. Most cities expect a cost effective solution that permits the energy savings and low cost of the LED lighting stem to rapidly amortize the investment, turning the project into a net revenue opportunity. This is true with conventional cobrahead street lights, but decorative lighting used in cultural or heritage applications may not experience similar results.

#### Work Plan

#### Team

The DSI Team will be led by DSI serving as Prime Consultant, Project Manager and Project Engineer. DSI will be supported by seven (7) subconsultants, each of whom have worked recently together on similar projects, including the WRCOG progra. Team members have been chosen based on subject matter expertise, experience, capabilities and prior working together. The Team Members, their Principals, and their Roles are shown in Table 1.

#### Roles

The Project Manager, James Benya, PE will oversee the work, manage intertask schedules and coordination, and serve as the single point of contact for administrative aspects of the Project. He will also serve as the Task Leader for Tasks 1 and 4.

There will be a Task Leader, in some cases a co-Task Leader, Significant Contributors, and Consultants for each of the five Tasks. From a planning and management perspective, Task Leaders will be fully responsible for the work of their Task including day to day scheduling, activities, deliverables, and related duties. See **Table 2**. The Task Leader has been chosen because of his/her position as a subject matter expert (SME) for a significant aspect(s) of the Task. If there is a co-Task Leader, he/she is an SME in an area of relevance and will share management duties with the Leader. Significant Contributors and Consultants are also SME's and are expected to contribute an aspect of expertise necessary to meet the Task requirements, with greater effort and input from Significant Contributors.

According to our estimates, about half of the project involves studies, reports and public process, and half involves designing lighting and controls projects and seeing them through to completion. We expect that about 45% of the project's work will occur in 2016, 50% in 2017, and the balance in 2018. The following pages contain our response to the RFP's requirements. We have budgeted the necessary time to resolve these issues with City staff and other concerned parties.

We will engage a team member solely responsible for creating a project schedule in MS Project and maintaining it throughout the course of our work, including the implementation phase. We will provide monthly reports on project progress.

## **Project Schedule**

## **Summary of Activities**

For reasons that will be described in detail below, the project will be dividied into two significant phases:

- 1) During the first twelve months, the majority of the professional work will be completed, including most of Tasks 1, 3, 4 and 5. In addition, the planning portion of Task 2 and the first bid package will be completed.
- 2) For the remainder of the Project, the work will consist almost exclusively of Tasks 2 and 5. Task 2, which will consist of four lighting bid packages and the Smart network bid package. This will continue until January 2019, with the issuing of bid packages, bid evaluations and construction phase work. Task 5 will continue through all bid packages and fixture installations until January 2019 as well.

## **Critical Scheduling Considerations**

This project has two overarching issues that our team is prepared to address.

- The Program first and foremost requires changes to City Lighting Standards and to the Public Utilities rate structure. Our experience indicates that public process can often take months or even years. It is imperative that the appropriate City Council adoptions take place in 2016 or very early 2017, to assure that the implementation phases are not delayed.
- 2. Most LED replacement projects amortize the cost with energy savings. This requires a project to produce significant energy savings with a modest investment. For this reason, most LED projects do not undertake to do any of the following:
  - a. Move any light poles
  - b. Add any light-poles
  - c. Improve lighting performance, particularly to meet IES RP-8-14, AASHTO GL-6 or other recommended practices.

We have been and are currently involved in aiding communities develop lighting regulations of various kinds and in helping them develop and assess modern City standards relative to the practical realities of street lighting economics. We expect to tackle these issues as soon as we begin work, to ensure that unforeseen conflicts don't prevent the project from proceeding on schedule or adding any unnecessary project costs.

## **Schedule Planning**

See **Figure 1** in **Appendix A**. This graphic represents our proposed preliminary schedule to meet the preferred completion dates requested in the RFP.

PROFESSIONAL SERVICES FOR CITY-WIDE STREET LIGHT LED CONVERSION PROGRAM DEVELOPMENT

#### Task 1

Task 1 is a research and development project that consists of work on the City Street Lighting Standards, the creation of a new Design Manual, and a survey of the special districts. Between the changes brought on by LED's and the changes contained in IES RP-8-14, we assume that the Standards and Manual will be rewritten, and the survey will required detailed GIS definition by photograph, light source and watts. <u>Deliverables</u> include three major reports which will guide the City's adoption of essentially new lighting standards for the future.

Figure 1 underscores the importance of Task One's research, meetings and major decisions being completed and ready for public process by summer 2016. We expect significant interaction with RPU, the City Engineer and other City Staff as the conversion of City Standards to meet IES RP-8-14 is a significant undertaking, requiring a lot of meetings and compromises as well as technical work. We expect the Public Process including review and approval by RPU, City Engineer and ultimately, City Council adoption will, along with ongoing research and updates, comprise the latter half of the year.

### Task 2

Task 2 is an engineering project consists of developing the master lighting retrofit plan, developing budgets, recommending specific lighting applications and then, developing a series of bid packages throughout 2017 and into 2018, in order to complete all work by 2019. <a href="Deliverables">Deliverables</a> incluide two significant reports and four bid-build sets of drawings and specifications that will primarily involve lighting retrofits but will also include civil engineering construction. Work includes construction administration activities throughout the actual construction. The overall design Plan, budgeting and system review (Tasks 2a, 2b and 2c) must also be fairly complete by mid-summer 2016 for the actual engineering to proceed in the fall of 2016.

The most critical schedule planning interaction is with Task 1. Engineering cannot proceed too fast until Task 1 is significantly complete and approved. The ensuing public process in Task 2 must be relatively short in order to permit time to develop the plans and specifications for the first bid package.

Our team includes the services of a Civil Engineer for the purposes of developing projectspecific traffic planning specifications. We have assumed that there will be no pole relocations or similar changes requiring civil engineering plans.

PROFESSIONAL SERVICES FOR CITY-WIDE STREET LIGHT LED CONVERSION PROGRAM DEVELOPMENT

#### Task 3

Task 3 is a research report that involves work on the Public Utility's rates and financing aspects of the project, including proposing revisions to the Municipal Code, Rules and Rates, and studying and recommending financing options. Deliverables will include eight (8) significant reports.

Under Tasks 3a through 3g, inclusive, the Work must move forward and become reasonably sure of the outcome by late summer such that the first LED lighting project can be started in early 2017. We are presently unsure of the urgency of Task 3h, the study of financing alternatives, but we have conservatively assumed that the City will want the report on financing options by mid-summer 2016. For this reason, in Task 2 we will generate budget information as quickly as possible. This also places pressure on Task 1 because unlike cobrahead street lights, decorative street lights on numerous varieties require more detailed information early in the project in order to estimate correctly.

Task 3h will consider all possible ways by which the city can finance the project, including the extent to which grants, rebates and other incentives can reduce the design costs and first costs. In addition to the ordinary financial models and sources, we intend to look into every energy efficiency incentive available to the City.

#### Task 4

Task 4 is a complex task concerning "Smart" street lighting control and energy management systems. In the research phase, the team will research and evaluate marketplace options, present them with recommendations, and hold a workshop to enable City staff to quickly grasp the breadth and magnitude of the technology and potential it offers to the City. The team will then help the City decide how to proceed. Deliverables include educational materials and a critical report to RPU, City Engineer, City Council, City Staff, and the community, including the cost and benefits of each candidate system. Because of the rapid changes in this technology, it is best to begin the research work as late as possible and finish it as fast as possible; however, a decision by City Council on whether to employ a particular system or technology will be needed at least several weeks before the final owner's review of the first bid package, to prevent adding the technology as a change order. It may be prudent to delay the first bid package until a decision is reached.

#### Task 5

Once a choice is made in Task 4, the team is responsible for developing engineering bid documents for the selected system, helping bid the work, and providing construction administration throughout the course of the installation. This task involves specifying a design-build Smart street lighting control and energy management system, plus other network features such as audible alerts, cameras, etc. that are chosen from options presented under Task 4. Once procured the system will be implemented on a schedule that offers the city the

#### PAGE 8

#### REVISED BENYA BURNETT TEAM PROPOSAL CITY OF RIVERSIDE RFP 1569

PROFESSIONAL SERVICES FOR CITY-WIDE STREET LIGHT LED CONVERSION PROGRAM DEVELOPMENT

greatest advantages for its needs. We expect to consider when the system is actually procured to take advantage of the best possible technology; as a minimum, provisions for it can be made with every LED conversion bid package such that a late-as-practical installation may occur. Due to the paradox of wanting to obtain a system that is as state of the art as possible while planning for it months or years in advance, we expect to maintain vigilance on the evolution of this technology and advise the City at the best possible time to take action. That said, it is likely that the RFP, which we will prepare, will be issued about the same time as the first LED conversion contract, enabling all converions to be controlled and their features realized as the lighting systems come on line.

Because we anticipate a large number of different luminaire and pole types, we have included compatability studies and evaluations as part of specifying luminaires or luminaire conversion kits as part of Task 2.

#### Task 6

We added Task 6 to address the specific jobs of project setup, monthly data entry, and monthly reporting using MS Project. It includes purchasing 2 MS Project 2013 seats specifically for this purpose.

## **Special Notes on Smart Lighting**

The City has a potentially bright future beyond simply converting to LEDs. With the advent of commercially available adaptive controlled lighting, cities have a new tool to control the adverse impact of night sky light trespass while saving energy and extending the life of lighting systems and reducing their maintenance. In addition, it is likely that a system will be selected that forms the network for a number of "smart" activities, ranging from traffic management to video surveillance, big data collection and might even serve as a revenue source if leased to telecom companies. The latest systems not only remotely monitor and dim streetlights, but also, provide a platform of metered, distributed power and 2-way communications, bringing the mobile Internet of Things (IoT) to the City atop streetlights. Opportunities for cities include integration of AMI water meters, traffic signaling, Wi-Fi, Li-Fi and revenue generating 4G LTE small cells.

In **Task 4**, we will investigate this option for the City, helping determine economic as well as technical viability. We will present an up-to-the-minute evaluation of options in a workshop format so that all interested parties will have the same database. Should this study indicate overall feasibility and desirability, we will take direction and develop plans to adopt the selected system in **Task 5**.

Our qualifications through team member Southern Contracting are exceptionally strong. The benefit to Riverside is Southern's deep domain knowledge, including current projects working with major lighting controls companies, including GE and Acuity, to develop the next generation platforms. They have been a national market leader in the development of streetlight networks as a core smart city asset through the deployment of adaptive controls. Recently completed projects include four streetlight networks for the cities of San Diego, Oceanside, Chula Vista and Carlsbad, involving more than 11,000 lights. Southern has also been a strong policy advocate as well, assisting SDG&E and the San Diego cities to perform the research that has led to the first utility-grade metered streetlight rate which is now slated to go into effect in 2016.

# REVISED BENYA BURNETT TEAM PROPOSAL CITY OF RIVERSIDE RFP 1569 PROFESSIONAL SERVICES FOR CITY-WIDE STREET LIGHT LED CONVERSION PROGRAM DEVELOPMENT

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Appendix A - Project Schedules

CONCEPTUAL PROJECT WORK PLAN Conceptual Project Work BENYA BURNETT TEAM PROPOSAL Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec Figure 1 Plan Deliverable completion, public process, review and delivery Research, meetings and preliminary public process CONVERSION PROGRAM DEVELOPMENT Engineering, production 2017 Bid Evaluation and CA No Specific Activity 0 Bidding 0 Award first Street Light LED Conversion Services Contract and Notice to Proceed -5/2017 Apr May June July Aug Sept Oct Nov Dec 00000 Exper Award Professional Services Contract and Notice to Proceed - 8/2016 Education Sessions for SMART Street Light Control Systems — 5/2017 Issue first RFP for Street Light LED Conversion Services – 3/2017 New Rates for LED Street Lights go into effect - 1/2017 Done Issue RFP 1569 for Professional Services - 12/2015 Bid evaluation and CA phase Light Patrol and Maintenance New Street Lighting Standard Review recommend changes Review Draft Engineer Report Special district survey report Plans Specs for Each Project Bid evaluation and CA phase Plan for City Wide Program **Budget for selected System** Review street light system Light Patrol and Maintenance Option communications PW Intersection Safety RFP for selected System Descriptions of options PW Intersection Safety New Design Manual Option assessments Review Appendix A Research Financing Review Mun.Code **Budget estimate Expected Due Dates** Review Rule 15 Menu of options Description Review LS-1 Review LS-2 4e Workshops Review OL 19 <del>일</del> 2 P 2 8 분 학 **4**P 4 Sa 4 25 25 26 25 56 25

PROFESSIONAL SERVICES FOR CITY-WIDE STREET LIGHT LED

CITY OF RIVERSIDE PURCHASING RFP NO. 1569

FOR REVISED RFP SUBMITTAL

## **Appendix B - Database Quality**

We assume that the City's database is sufficiently accurate for the needs of the project. However, the spatial and tabular accuracy is unknown. We have previously encountered similar data which seemed comprehensive and accurate, but flaws became apparent upon detailed field audit.

The design team is interested in leveraging this data in the most effective way possible. As an indicator of the overall accuracy of the data, we have included a detailed survey of approximately 50 poles and luminaires in each of the 24 "Special districts" in which a total of about 1200 lights will be audited. Should we find significant and/or consistent errors in the City database, the City/RPU will have the option of fixing the database before the project proceeds further.

# EXHIBIT "B" COMPENSATION

Estimated \$ 58.850.00

#### REVISED BENYA BURNETT TEAM PROPOSAL CITY OF RIVERSIDE RFP 1569

PROFESSIONAL SERVICES FOR CITY-WIDE STREET LIGHT LED CONVERSION PROGRAM DEVELOPMENT

## Price

Based on the work plan by phase and by personnel shown in detail in Appendix B, we offer to provide the services required by RFP 1569 for the following Contract Amounts.

We are pleased to offer our services on an hourly fee basis with a guaranteed not-to-exceed price for our services throughout the course of the project. We reserve the right to adjust fees among Tasks and among team members with the understanding that the NOT TO EXCEED FEE cannot be exceeded unless changed by a mutually agreed-upon Change Order.

Professional Fees		
Task 1	Based on 740 hours	Estimated fee \$137,850.00
Task 2	Based on 1384 hours	Estimated fee \$236,520.00
Task 3	Based on 656 hours	Estimated fee \$133,360.00
Task 4	Based on 554 hours	Estimated fee \$108,200.00
Task 5	Based on 400 hours	Estimated fee \$ 79,350.00
Task 6	Based on 280 hours	Estimated fee \$ 51,160.00
TOTAL	NOT .	TO EXCEED FEE \$746,440.00
Expense Reimbursements		

65 person trips

Costs and Expenses

CUSES	alla Expelises	oo herson mbs	Estimated \$ 56,650.00
Option	ns		
1d	Public Works Street Lighting	Conversion study	Estimated fee \$19,400 plus \$5,400 in expenses
<del>1da</del>	Demonstration Street Lightin	ng Project for review	Estimated fee \$24,000 plus \$3,600 in expenses
<del>2ca</del>	Demonstration projects not	in special districts	Estimated fee \$22,000 plus \$3,600 in expenses
<del>2cb</del>	Festival of Lights Master Plan	nning	Estimated fee \$23,100 plus \$5,400 in expenses
2d	Public Works Street Light Con	nversion plans	Estimated fee \$21,950 plus \$3,600 in expenses
<del>4e1</del>	Written Report of Task 4		Estimated fee \$8,000

## **Conditions, Assumptions and Exemptions**

## **Assumptions**

- a) No poles removed, relocated or repaired and requiring civil engineering plans.
- b) For the majority of the project, specifications will consist of a tabular listing of GIS coordinates and specifications for the change-out at each coordinate. When plans are required for field installation, they will be indicated on City-supplied plans in AutoCAD. City/RPU is responsible for printing, printing costs, and print distribution.
- c) Structural engineering not included.
- d) Repairs, renovations or modifications to lighting power sources not included. We will specify new wiring in existing poles from the handhole on to the luminaire.
- e) Public process is limited to appearance at a maximum of (6) City Council work sessions and (12) Council meetings for readings and/or adoption.
- f) Except for construction phase duties, a maximum of fifty (50) man-trips to Riverside.
- g) For construction phase duties for LED replacement lighting, five construction contracts occurring between January 2017 and January 2019 with a total of fifteen (15) man trips to Riverside.
- h) Civil Engineer will not provide observation of the work.
- i) Electrical engineer will provide 2 observations of the work per bid package including a rough-in level review and a punchlist review of the completed project.
- j) Determination of scope, type of survelliance and other non-lighting control functions, and engineering is not included. Task 5 bid documents are for a design-build consultant.
- k) Reports required under Section 4.5.2 are understood to be of professional engineering quality, with a minimum of background information and making clear recommendations suitable for Staff and City Council discussion. Reports are not expected to exceed 5000 words in length.
- Although we recommend mockups and demonstration projects, they are not part of the RFP. We have therefore not included the costs of organizing, designing or administering mockups and demonstations.
- m) The City will export its Oracle database for use by Evari, whose GIS database has been modified to address controllability functions to match the requirements of Task 5.
- n) We have included a one time expense for AriGIS to audit the location and photograph approximately 50 luminaires in each of 24 districts. Otherwise, we will not accept responsibility for database accuracy unless we are retained to perform a systemwide audit. See Appendix A for a further explanation.

#### **Conditions**

1. Fee estimates are by subtask and represent the scope of services. Month-by month hours are estimates only. Actual time by month may vary.

PROFESSIONAL SERVICES FOR CITY-WIDE STREET LIGHT LED CONVERSION PROGRAM DEVELOPMENT

- 2. We reserve the right to reallocate hours among tasks and subtasks as long as the estimated maximum fee is not exceeded.
- 3. Cost of mailing, printing, reproduction, and similar expenses for plans and specifications, handouts at conferences, etc. will be paid by the City directly.
- 4. It is understood that our schedule will be significantly affected by City decisions and the adoption of several key documents. We will advise the impact of any such impacts as they occur and expect reasonable schedule adjustments.

## **Exceptions**

• See individual tasks in the Master Plan (Appendix C). In general, our exceptions are limited to clarifications on key issues that have mostly been addressed in correspondence or discussion with RPU team leaders.

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Limitations																Up to 10 separate	groups of Special	Districts having		Wood Streets not in project. When	administrative administrative review applications will be submitted for up to 24 individual Districts
Assumptions		This effort does NOT include the coerial	districts undertaken	in 1c. below. except	to include the results	of the task and	decisions of the	Special Districts and RPU.	This effort does NOT	include the special			to include the results		decisions of the Special Districts and RPU.		Survey to include	approx. 50 luminaires	in each of 24 Special Districts and will	include confirming	or stocation; pure and stranged water freedable from exterior, visual assessment of pole and luminaire, and photo.
Exceptions									Will include IES	DG-21-15 and	when necessary,	AASHTO GL-6 and		There are no	other estabilshed industry best practices.				Relevant aspects	of tasks 1a and	Special Districts Special Districts will be addressed in this scope
Deliverables			New and revised	street lighting	standard and	specification	documents					Design Manual		for LE					Survey report showing street light	styles and types	conservation area.  District or Neighborhood Conservation area.
Scope		Review existing RPU street lighting standards and	specifications to identify	revisions needed to	substitute LED lamps,	luminaires and related	accessories for existing	non-LEDstyles and obsolete LED styles.		Develop a Design Manual	section for LED Street Light	Design based on ANSI/IES	Nr-00-14, existing nro	street light design practice	practices.			Survey each of the street	light standards and fixtures Survey report currently deployed in each showing street light	of the 25 Historical	Historical Districts, Neighborhood Conservation Areas and Potential Neighborhood Conservation Areas.
Sub task	TASK 1				1a							7	3								J.

May 22, 2016

Riverside RPU 1569

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TASKA OPTIONS  OPTION: Review existing Public Works Intersection Safety Lighting standards and specifications to identify revisions needed to substitute EED lamps, luminaires and related accessories for existing non-LED styles and obsolete EED styles at approximately 330 intersections comprising some 1,320 luminaires. OPTION: Design demonstration test projects for each recommended intersection lighting type, for installation by Public Works. Field review and lighting measurements.	Deliverables				evaluate. Includes	software-	isocandle plots of up to 20	intersections.	OPTION: Plans and snerification for	Intersection	Lighting	Field report	indicating light	levels before and	l after.
Sub trask 17ASK 11d	Scope	OPTIONS	Or HON: Review existing Public Works Intersection Safety Lighting standards	and specifications to identify revisions needed to substitute LED lamps,	luminaires and related	accessories for existing	obsolete LED styles at approximately 330	intersections comprising some 1,320 luminaires.	OPTION: Design	projects for each	recommended	for installation by Public	Works. Field review and	lighting measurements.	
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					Assumes (1) webinar to interested parties	(1) presentation to	presentation to City Council			
					The program will provide a complete	program including	Establishes project schedule			
	All activities concurrent. All estimates are	"budgetary class	only" and they	shall not be	expected to be unreasonably		All planning will assume January	2019 completion unless otherwise	directed by RPU at start of	project.
		City Wide Street			Program including	MS Project schedule, estimated	costs, stages and districts/ neighborhoods, and	related information.		
	Develop a City-Wide Street Light LED Conversion	Program, including cost	estimates, scheduling and	stages needed to complete	the conversion within two vears.		Review the RPU Street	recommend stages or	by area, neighborhood, or	القاندية والمجار
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Riverside RPU 1569

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	Billing Rate	\$200	\$200	\$175	\$200	\$200	\$200	\$100	\$175	\$175	\$200	\$200	\$200	\$175	\$175	\$200
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	Public Process		None					Assumes (4) prebid	meetings and support	for bidders requests	for information.	None				
	Limitations	MS Project file deliverable for schedule and MS Excel deliverable	for costs; written	report not to	exceed 1000 words in MS Word.	Four contracts. City/RPU to provide all non-technical	documents and	sections.	City/RPU will	manage the	bidding process. Rick provides specificatons for traffic management only.	No projects extend beyond January 1 2019; traffic	management not	Sul in parioddns	construction	
	Assumptions	Microsoft Project will be updated monthly to include consulting team cost projections, actual		expenses and	project timelines, project cost projections, and actual project costs	Data on pole locations and type of	retrofit will be	ă.	specifications	competitive hidding	among manufacturers. Bid documents will be GIS based.	2 observations of the work per contract and written report: field work by		by Civil Engineer		
	Exceptions	All activities concurrent. All estimates are "budgetany class	only" and they	shall not be	expected to be unreasonably accurate.		:	No civil	engineering work	reviews traffic	planning only	Schedule and costs updated	under Task 6			
	Deliverables	Monthly budgetary	cost estimates and	progress reports		Plans and	specifications for	each construction	contract. Note bid	evaluation and	technical support has been included in Task 2e.	3 - # - €	objections to	payment requests	(in any)	
	Scope	Provide a budgetary class cost estimate for the project on an annual basis,	including consulting,	material and construction	costs based on the approved project schedule.				Specifications for each LED	conversion stage or phase.	•	pue	construction phase	projects.		
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					-		Person Meetings in	Firm	Class	Staff 1	Billing	Fee	Major	Precursors Successors	Successors	FEE	TRIPS	TRAVEL
- 1	Scope	Deliverables	Exceptions	Assumptions	Limitations	Public Process	Riverside						energy war					<u>§</u>
# # # # # # # # # # # # # # # # # # #	Recommend how to integrate ongoing street light partol and maintenance activities into the City-wide Street Light LED Conversion Program	Report recommending incorporation of street light patrol and maintenance activities into the Chrouide Street		Written report up to 2500 words.	Based solely on data provided by the City/RPU.	None	<b>v-</b> t	B8C	<u>α</u> .	16	\$200	\$3,200		2a, 2b, 2c	None	\$7,000	H	006\$
	to improve cost	Light LED						MEI	a.	9	\$200	\$1,200			<u>-</u> -			
	effectiveness.	Conversion project.		•				Evari	a	80	\$175	\$1,400						
								Southern	s	9	\$200	\$1,200						
e	TASK 2 OPTIONS															he do integrá concedid de ANO		
	OPTION: Design									- 8	Sinor					150/758  -	97 - -	<b>512</b> ,600  -
	demonstration test	Plans and		Assumes up to 10 different luminaires				BBC	۵.	6	1014	10000	7					
	projects for each	specifications for test installations in			Procurement and installation hy	None	_	}		:	Ĭ N	Not selected	ed					
噩	lighting replacement that	Public Works		demonstration.	Public Works	2	t		۵	9								
. <u>v</u>	is not in a Special District or intersection	format		Works Format.	•			ME	⊢	09								
le= =	OPTION: Develop a master plan for the Festival of Lights, including integration of exhibits, lighting control system requirements to	Master plan for lighting of the Festival in the	Scope not well defined - proposed hours are to get the work underway	Work starts fall of 2016 for implementation in	Hourly not to exceed fee; we will establish a fixed fee once the	Assumes (1) webinar to interested parties (1) presentation to RPU Board and (1)	2	88C	۵	09								
-	coordinate public and private lighting, and expansion plans for coming years	downtown area	the extent of the proposed master plan.	2017.	scope is determined.	presentation to City Council		Poster	۵	09								
١ō	OPTION: Develop an LED									T	T							
ပဥ္က	Conversion Program for Public Works Intersection	Ontion: Public		Deliverable drawings in design-build format similar to City	Evtra charge for			BBC	α.	12	\$200	\$2,400						
ē,		Works Intersection	<u></u>		felivering plans in	None	7	Œ	۵.	36	\$200	\$7,200	To be	1d, 1 dA	н	\$21,950	4	\$3,600
		Conversion Program	Conversion	traffic engineering;	format				⊢	36	\$100	\$3,600	Date: Income					
ű	approval by the City Engineer or designated			no construction phase activities				Evari	۵	10	\$175	\$1,750						
	staff.							Rick	S	40	\$175	\$7,000						

May 22, 2016

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	100000										
TRAVEL	\$14,400		\$1,800		\$1,800						
TRIPS	16		2	7							
FEE	\$133,360		\$12,080		\$23,280						
Successors			May be	required for City bid (external) after 2d							
Precursors Successors			Notice to Proceed		Notice to Proceed						
Major Expenses											
Fee	\$133,360	\$3,200	\$8,880	\$14,400	\$8,880						
Billing Rate		\$200	\$185	\$200	\$185						
Staff Hours	959	16	48	72	48						
Class		۵.	<u>a</u>	۵	۵.						
Firm		BBC	NCW	BBC							
Person Meetings in Riverside				7							
Public Process		Assumes (1) draft review by RPU and City, and Final Report with specific revisions Assumes (1) webinar to interested parties (1) presentation to RPU Board and (1) Includes (1) draft presentation to City review by RPU and City, and inal Report with specific revisions in each 2017, 2018 and 2019									
Limitations		Assumes (1) draft revisions, draft	review by RPU and City, and Final Report with specific revisions	Includes (1) draft revisions, draft review by RPU	and City, and Final Report with specific revisions in each 2017, 2018 and 2019						
Assumptions	_	Assumes all activites are undertaken concurrently and project related meetings and deliverables are combined									
Exceptions											
Deliverables	i i	Recommended revisions to the Riverside Municipal	Code, if necessary, to implement the City-wide Street Light LED Conversion Project.	ugn Assessment District No. 1, if necessary to implement the City-wide Street Light LED Conversion Project.							
Scope	6	Review the Riverside Municipal Code sections applicable to street light	systems and recommend Code, if necessary, revisions, if necessary, for implement the implementation of the City-wide Street City-Wide Street Light LED Light LED Conversion Project.	Review the annual draft Engineer's Report for Street Light Assessment District No. 1 and provide	recommended revisions to incorporate the results of the City-Wide Street Light LED Conversion Project completed during the Report Period.						
Sub task	TASK3		3a		8						

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TRAVEL		0064		\$300		\$900	2900			\$1,800					
TRIPS	-	4		el .		Н	-	ſ		2					
FEE	¢12.000	717,000		\$12,080		\$11,680	\$11,680			\$11,680					
Precursors Successors					May be required for City bid (external) after 2d \$51										
Precursors	Notice to	Proceed	Notice to	Proceed	Notice to	Proceed	Notice to	Proceed		Notice to Proceed					
Major Expenses				<b>,</b>											
Fee	\$3,200	\$8,880	\$3,200	\$8,880	\$2,800	\$8,880	\$2,800	\$8,880	\$2,800	\$8,880					
Billing Rate	\$200	\$185	\$200	\$185	\$200	\$185	\$200	\$185	\$200	\$185					
Staff Hours	16	84	16	48	14	48	14	48	14	. 8					
Class	۵.	۵.	۵	۵.	۵.	۵	۵	۵.	۵	a.					
Firm	BBC	NCM	BBC	UCM	. BBC	UCM	BBC	MCM	BBC	NCM					
Person Meetings in Riverside	4														
Public Process				Assumes (1) webinar to interested parties (1) presentation to RPU Board and (1) presentation to City Council											
Limitations				-	Includes (1) draft report, draft review by RPU and City, final draft report, draft review by RPU and City, and Final Report with specific revisions										
Assumptions		77(4)			Assumes all activites are undertaken concurrently and project related meetings and deliverables are combined										
Exceptions			'	· · · · · · · · · · · · · · · · · · ·											
Deliverables	Recommended revision to Electric Rule 15, if	implementation of the Project.	Recommended revisions to Appendix A to the	necessary, for implementation of the Project	Recommended revisions to Schedule LS-1, STREET LIGHTING SERVICE,	DEPARTMENT FINANCED, If necessary, for implementation of the Project	revisions to Schedule LS-2, STREET LIGHTING SERVICE, CLISTOMER	FINANCED, if necessary, for implementation of	Recommended revisions to Schedule OL, OUTDOOR	LIGHTING, if necessary, for implementation of the City-wide Street Light LED Conversion Project					
Scope	Review Electric Rule 15 and recommend revisions, if necessary, for implementation of the	City-wide Street Light LED Conversion Project.	Review Appendix A to the Electric Rules and recommend revisions, if	implementation of the City-wide Street Light LED Conversion Program.	Review Electric Rate Schedule LS-1 STREET LIGHTING SERVICE, DEPARTIMENT FINANCED and recommend revisions, if necessary, for implementation of the City-wide Street Light LED Conversion Project Conversion Project Review Electric Rate Schedule LS-2 STREET LIGHTING SERVICE, CUSTOMER FINANCED, and recommend revisions, if necessary, for implementation of the City-wide Street Light LED Conversion Project. Schedule OL OUTDOOR LIGHTING, and recommend revisions, if necessary for implementation of the City-wide Street Light LED Conversion Project. CONVERSION FOR CONVERSION IN CONVERSION FOR CONVERSION FOR CONVERSION FOR CITY-WIGH STREET LIGHT LED CONVERSION Project.										
Sub task	35		39		ć	y A	₹		8°						

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	TRAVEL		\$5,400											
	TRIPS	vo												
	FEE	\$38,800												
	Successors	None												
	Precursors Successors		Notice to Proceed											
	Major Expenses													
	Fee	\$2,800	\$36,000											
	Billing Rate	\$200	\$250											
	Staff Hours	14	144											
	Class	۵	۵											
	Firm	BBC	MFE											
rerson	Meetings in Riverside		4											
	Public Process	Assumes (1) webinar	to interested parties (1) presentation to RPU Board and (1) presentation to City Council											
	Limitations	i (1) draft t, draft by RPU	and City, final draft report, draft review by RPU and City, and Final Report with specific revisions											
	Assumptions	Contacts will be made to possible Includes funding sources by repor phone, but the work review	will be limited to and City, final determining whether draft report, draft the project is eligible review by RPU and the likely and City, and benefits. Will not Final Report with include negotiations specific revisions or applications.											
	Exceptions													
	Deliverables		Written report of up to 5000 words with references											
_	Scope	Research availability and recommend innovative financing options for	consideration by RPU, including energy grants, bonds, third party attachment fees or other methods for reducing the overall project cost.											
	Sub task		£											

TRAVEL	\$7,200	0065					006\$												
TRIPS	0 11								1					п					
FEE	\$108,200	\$26,600	20,034			\$20,600					\$23,600						\$16,300		
Successors					•					4e			•						
Precursors		Notice to	Proceed						4a								ę4		
Major Expenses	08																*		
Fee	\$11,200	\$7,200	\$4,200	\$4,000	\$7,200	\$5,200	\$4,200	\$4,000	009'6\$	\$7,200	\$2,800	\$4,000	\$9,600	000	000,14	53 500	200100		\$1,600
Billing Rate	\$200	\$200	\$175	\$200	\$200	\$200	\$175	\$200	\$200	\$200	\$175	\$200	\$200	200	007¢	\$175			\$200
Staff Hours	56	36	24	20	36	26	24	20	48	36	16	20	48	۰	٥	20	3		<b>&amp;</b>
Class	۵.	۵.	۵	v	۵.	۵	_	S	۵.	ο.	م	s	۵	٥		۵	-		s
Firm	BBC	MEI Evari Southern MEI Evari Southern							BBC MEI Evari Southern			BBC	i v	ivici	Evari			Southern	
Person Meetings in Riverside	σ																		
Public Process					None														
Limitations		Limited to street lighting energy management and control, maintenance reporting, and street light												Includes non	street lighting options that are	practical, on the	market now, or reasonably able	to be developed by calendar end	
Assumptions				Assumes all activites are undertaken concurrently and project related meetings and deliverables are combined. Report not to exceed 10,000 words.															
Exceptions	v.																		
Deliverables					Smart street lighting control, energy management, and attachment options report														
Scope		options for consideration by Stakeholders, the Board	of Public Utilities and City Council for possible	inclusion in the City-Wide Street Light LED Conversion Program.	Provide a chort description	of each option.			Smart Street Lighting Control and Energy	- 4	fellowing, as a minimum of	specific lignting energy, maintenance and operational functions.	Street Light Attachment	options should include the following as a minimum:-	various attachment	options including but not limited to, third party uses,	electronic meter reading,	distributed automation, audible monitoring, video monitoring, smart signals,	and environmental monitoring.
Sub task		4a				4p					4c					7	\$		

May 22, 2016

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teducational Assumptions Limitations Public Process Riverside Legistric Legistric Rate Lighting Street Lighting Presentation System Features by City/RPU. The Contents and Presentation and Prese		1													
Available Smart Street Lighting Contents approved by City/RPU. representation of manufacturers presentation and Presentation or products.	TRAVEL		;	\$3,600											
Available Smart Street Lighting Costs will be workshop Recentation Presentation of manufacturers Board and Presentation and Presentation or products. Board and (1) City Street Lighting System Representation or products. Board and (1) City Street Lighting Street Lighting System Reatures by City/RPU. Tepresentation or products. Board and (1) City Street Lighting System Representation or products. Board and (1) City Street Lighting System Representation or products. Board and (1) City Street Lighting System Representation or products. Board and (1) City Street Lighting Southern S System Representation or products. Board and (1) City Street Lighting Southern S System Representation or products. Board and (1) City Street Lighting	TRIPS	4													
Available Smart Street Lighting Contents approved and/or representation or products.  Exceptions Assumptions Limitations Limitations Deblic Process Riverside Street Lighting Contents approved and/or site set up to retrieve By City/RPU. Representation of manufacturers preferences. It is presentation or products. Board and (1) RPU Southern South	FEE	\$21,100													
Available Smart Street Lighting Contents approved and/or representation or products.  Exceptions Assumptions Limitations Limitations Deblic Process Riverside Street Lighting Contents approved and/or site set up to retrieve By City/RPU. Representation of manufacturers preferences. It is presentation or products. Board and (1) RPU Southern South	Successors	4e1, 5a													
Available Smart Street Lighting Costs will be workshop Returnes by City/RPU. representation of manufacturers preferences. (1) RPU Street Lighting System Returnes by City/RPU. representation of manufacturers preferences. (1) RPU Street Lighting System Returnes and Presentation or products. Council presentation or products. Council presentation or products.	Precursors		4a, 4b, 4c, 4d and	direction of City/RPU											
Available Smart Street Lighting Control and Energy Nanagement System Features By City/RPU. The Street Lighting System Features By City/RPU. The Street Lighting The The Stre	Major Expenses														
Available Smart Street Lighting Control and Energy Management Control and Energy System Peasentation By City/RPU. Tepresentation and Presentation and Presentat	Fee	\$9,600	\$6,400	\$3,500	\$1,600										
Available Smart Street Lighting Control and Energy Management Control and Energy System Peasentation By City/RPU. Tepresentation and Presentation and Presentat	Billing Rate	\$200	\$200	\$175	\$200										
Available Smart Assumptions Limitations Public Process Riverside Firm Class  Available Smart Street Lighting Control and Energy Management Control and Energy System Features Educational Workshop Report and Presentation or products.  Below Management Comments approved and/or site set up to retrieve by City/RPU. representations comments, input and Educational of manufacturers preferences. (1) RPU Evail Process Riverside Firm Class Riverside Firm Cl	Staff Hours	48	32	20	80										
Available Smart Street Lighting Contents approved Workshop Report System Features Educational Workshop Report and Presentation and Presentation or presentation or presentation or presentation or presentation or products. Board and (1) Council presentation or products. Board and (1) Council presentation or products. Board and (1) City Southern Southern Council presentation or products. Board and (1) City Southern Southern Council presentation or products.	Class	٩	Ь	۵											
Available Smart Street Lighting Costs will be workshop and (1.) based on Webina to remain Presentation Analgement System Features Educational Workshop Report and Presentation of manufacturers preferences. (1) RPU or products. Council presentation and Presentation of manufacturers preferences. (1) RPU or products. Council presentation Connectional Or products.	Firm	88C	MEI	Evarí	Southern										
Available Smart Streeptions Assumptions Limitations Street Lighting Control and Energy Management Control and Energy System Educational Workshop Report and Presentation or more presentations and Presentation or more productivers and Presentation or products.	Person Meetings in Riverside		ŗ	v											
Available Smart Streeptions Assumptions Limitations Street Lighting Control and Energy Management Control and Energy System Educational Workshop Report and Presentation or more presentations and Presentation or more productivers and Presentation or products.	Public Process	One in-person public workshop and (1)	webinar to remain available on line. Poll	comments, input and preferences. (1) RPU	Board and (1) City Council presentation										
Deliverables Exceptions Available Smart Steet Lighting Control and Energy Management System Features Educational Workshop Report and Presentation	Limitations	Costs will be		representations of manufacturers	or products.										
Deliverables Available Smart Street Lighting Control and Energy System Features Educational Workshop Report and Presentation	Assumptions		Presentation	by City/RPU.											
	Exceptions														
icope Italianal	Deliverables	Available Smart Street Lighting Control and Energy Management System Features Educational Workshop Report and Presentation													
S Conduct Work: Stakeholde Smart St Control Manage feature benefit presentatio of Public L City Counci	Scope	Conduct Educational Workshops with Stakeholders on Available Smart Street Lighting	Control and Energy Management System features, costs and	benefits. Facilitate presentations to the Board	of Public Utilities and/or City Council to determine which options should be implemented.										
Sub tosk															

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	Report does not Assumes (1) webinar provide in depth to interested parties presentation or (1) presentation to discussion of RPU Board and (1) technologies or presentation to City	Council
	Report does not provide in depth presentation or discussion of technologies or	products
	Report does not   Assumes (1) webinar   provide in depth   to interested parties   Written report up to   presentation or   (1) presentation to   discussion of   RPU Board and (1)   technologies or   presentation to City	
4.OPTIONS	Report summarizing workshop input	
TASK	4e1	

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	7				
TRAVEL					\$58,500
TRIPS	0				65 - 10 - TRIPS
FEE	\$51,160			\$51,160	\$746,440 65 \$58,500 \$41,350 - 10 - \$9,000 FEE TRIPS COST
Successors				end of project	18,500 Some Some Some Some Some Some Some Some
Precursors Successors				notice to proceed	ited 0
Major Expenses	\$250	\$250	\$250		\$18,500 \$0 Major Expenses
Fee	\$35,860	\$13,600	\$15,300	\$22,260	99 96 15
Billing Rate		\$200	\$75	\$105	
Staff Hours	280	89	204	212	3978 706 Staff Hours
Class		۵	U	-	
Firm		BBC		Neils	
Person Meetings in Riverside				0	
Public Process					
Limitations			MS2013 file	update deliverable	
Assumptions			We will use MS	Project 2013	
Exceptions					
Deliverables		Monthly invoicing		Monthly budgetary cost estimates and progress reports	
Scope		Project Administration		Monthly budgetary Scheduling and Reporting cost estimates and progress reports	GRAND TOTALS BASE GRAND TOTALS OPTIONS
Sub task	TASK 6	ę9		99	GRAND

## EXHIBIT "C" KEY PERSONNEL

PROFESSIONAL SERVICES FOR CITY-WIDE STREET LIGHT LED CONVERSION PROGRAM DEVELOPMENT

## **Team and Key Personnel**

## Benya Burnett Consultancy (39.1% of Project Work)

Benya Burnett is a professional lighting design and illuminating engineering firm based in Davis, CA. The firm is internationally known for expertise in lighting with significant emphasis on energy efficiency, the environment, and dark sky protection. It is also the only firm in the world to have won the two Edison Awards and two Edison Awards of Excellence for Exterior Lighting of Historic Structures and four Edison Awards for Environmental Design.

About 20-23% of the total Work on this project involves research, technical writing, technical certification, public process, and educational support. Of particular benefit to the Riverside Program, Benya Burnett offers over 40 years of expert work in the development of codes, standards and standards of practice for government agencies, industry standards, and for private Clients. They provide *pro bono* service to the California Coastal Commission and the International Dark Sky Association. In addition, Benya Burnett is among the most prolific and capable educators and public speakers in lighting, having provided over 500 speaking engagements lecturer throughout the US and Europe. They will present 3 programs at LightFair International in San Diego, 2016.

## Key Personnel

James R Benya, PE, FIES, FIALD

Role: Project Manager and Project Engineer; Task Leader for Tasks 1 and 4

Benya is among the most seasoned and skilled lighting designers and illuminating engineers. He is the winner of over 200 national and international lighting design awards, and was honored as a Fellow of the Illuminating Engineering Society, as a Fellow of the International Association of Lighting Designers, and has served as an adjunct professor at 5 universities, lecturer at 31 universities and colleges, and public speaker throughout North America and Europe. He has written 3 books, been the author of over 50 handbooks and design guides, was the developer of the federal FEMP LIGHTS program, and remains popular as a lighting expert, public speaker, writer and consultant.

Benya has the unique background of also having served as a Project Manager for the Smith Group for major projects including Atlanta Airport, and as having been the CEO and Principal for three lighting firms over 25 years. Because of the significant involvement in all facets of the project, Benya will also serve as co-Project Manager

PROFESSIONAL SERVICES FOR CITY-WIDE STREET LIGHT LED CONVERSION PROGRAM DEVELOPMENT

**Deborah Burnett, ASID** 

**Role: Project Administrator** 

Burnett is also an accomplished lighting expert, pre-eminent in the field of light and health. Burnett founded Design Services, Inc. (DSI) in 1985 and acquired Benya Lighting Design in 2013. As CEO and President of DSI, she will handle project administration including invoicing and insurance.

## Monrad Engineering, Inc. (30.3% of Project Work)

Monrad Engineering, Inc. was founded 1983 and is located in Tucson AZ. The firm has provided professional engineering services for over 3,000 projects of a diverse and challenging nature including street lighting, traffic signalization, pathway lighting, landscape lighting, recreational, water works, and municipal buildings. Monrad Engineering, Inc. holds ADOT and Tucson DBE/SBE status.

Key Personnel

Christian K. Monrad, PE

Role: Co-Project Engineer and Task Leader, Task 2

Chris Monrad is an electrical and illuminating engineer with over 32 years of experience in design and construction for a variety of transportation and aviation lighting related projects. His expertise includes master planning, concept and design phase coordination of project specific requirements. Clientele includes the University of Arizona, Pima Community College, Marana Airport, Tucson Airport Authority, City of Tucson, Pima County, and numerous other cities. He is involved with several technical and professional societies, including 20 years of service on the Board of Directors of the International Dark Sky Association (IDA). At the August 2015 International Astronomical Union triennial conference he presented a paper titled Advanced Strategies for Outdoor LED Lighting Applications and Technologies to Curtail Regional Light Pollution Effects. Monrad was recently retained as subject matter expert (SME) for the City of Tucson Roadway LED relighting project, and the City of Flagstaff Lighting Modernization.

## **Southern Contracting (9.9% of Project Work)**

Southern Contracting is a leading electrical / energy design-build consultant serving California. Headquartered in San Marcos, Southern was founded in 1963. Southern is a subchapter-S corporation, maintaining bonding capacity in excess of \$50 million. Southern has built its reputation as a municipal and utility consultant serving the Southern California and Arizona markets. Key features and benefits Southern brings to the table include:

• A preferred consultant with San Diego gas and Electric for over 20 years, building substations, converting 5kV lighting circuits to 120V service, while maintaining SDG&E's existing LS-1 streetlights for the past ten years.

PROFESSIONAL SERVICES FOR CITY-WIDE STREET LIGHT LED CONVERSION PROGRAM DEVELOPMENT

- Maintain a full utility underground division, owning our own yellow iron (and bucket trucks), unique among electrical consultants.
- Southern possesses General A and Electrical C-10 license.
- Experience using the true-GIS-based mapping / management tool employed by Evari.

Southern has been involved with local municipalities converted to HPS, then LPS streetlights for over 30 years. In 2009, Southern were awarded one of the first city-wide energy efficient LED streetlight conversion projects for the City of Chula Vista in the United States. Originally the city wanted to convert to the then streetlight state-of-technology induction luminaires. However, due to the emergence and promise of the new LED streetlights, the City elected to convert to LEDs. The benefit of this early experience, and subsequent track record of auditing, designing and installing LED streetlights, will provide the team with the depth of experience necessary to understand, design and implement our proposed comprehensive program.

#### Key Personnel

Mr. James Filanc, LEED AP

Role: Subject Matter Expert, Emphasis on Tasks 4 and 5

Mr. Filanc has more than 30 years of design-build experience, working on energy projects around the world. Mr. Filanc is the chief architect of Southern's streetlight market segment, and is a nationally recognize Subject Matter Expert on LED streetlight design and conversion as well as adaptive controls technologies. He designed and implemented Southern's auditing process. He successfully led the development and execution of all of Southern's relevant streetlight design-build projects, including the Oceanside Citywide LED Streetlight Replacement. Mr. Filanc also organized the Adaptive Controls Test Bed between San Diego, Chula Vista, San Diego Gas and Electric, and the California Lighting Technology Center.

Jim also serves as Southern's specialist for advanced technologies, and he will serve as SME for research project under Task 4.

## **Evari GIS Consulting (8.5% of Project Work)**

Evari has developed a unique real-time GIS/GPS workflow system supporting the execution of the phase streetlighting projects and now provides services throughout the nation. Their proprietary system allows for rapid recording and auditing of street lighting inventories, and has been updated to including linking enabling GIS based controls for the latest lighting control and management systems.

PROFESSIONAL SERVICES FOR CITY-WIDE STREET LIGHT LED CONVERSION PROGRAM DEVELOPMENT

Key Personnel
Mr. Ari Isaak

Role: GIS Administrator

Mr. Isaack has more than 13 years of experience as a GIS / GPS coordinator, including work for the Port of San Diego where he pioneered the implementation of GIS systems. He is trained and certified in the use of the ESRI technology platform, the same platform utilized by the regional SanGIS mapping system. He is the founder and principal at Evari GIS and was the GIS coordinator on Southern's Citywide Streetlight Replacement Project for the City of San Diego, replacing more than 34,000 HPS and LPS lights. His innovative design and deployment of the ESRI platform is now standard operating practice for Southern Contracting and received rave reviews from the City of San Diego. He has set up the ESRI platform for San Diego, Oceanside and San Marcos, as well as numerous other cities throughout the United States.

## Rick Engineering (5.4% of Project Work)

Rick Engineering Company was founded in 1955 in San Diego, California. Today, it serves the Southwestern United States through San Diego, Riverside, Orange, Sacramento, San Luis Obispo, and Bakersfield offices in California, and our Phoenix and Tucson offices in Arizona. They provide full scope of planning, design, and engineering services support millions of dollars of public and private sector projects performed for hundreds of clients each year. The strength of the company is based upon a large, comprehensive, trained staff capable of producing superior complex work product in a timely fashion. In nearly six decades of service throughout the West, they have forged strong relationships with public and private clients, regulators, and owners who have come to value their expertise, seasoned professional judgment, and innovation, led by principals actively engaged in project development.

Key Personnel
Paul lezzi, PE
Project Civil Engineer

Paul lezzi is currently President and Principal Engineer of the Tucson office of Rick EngineeringCompany. He directs all administrative matters of the firm in Tucson and manages public and private sector projects. Mr. lezzi's varied engineering background includes engineering design and plan preparation and processing forlarge-scale residential, mixed-use and commercial and industrial projects. His significant public works endeavors include state and federal highways and regional infrastructure improvements. Mr. lezzi has overseen completed projects in Arizona, California, Nevada and New Mexico.

PROFESSIONAL SERVICES FOR CITY-WIDE STREET LIGHT LED CONVERSION PROGRAM DEVELOPMENT

## **Utility Cost Management LLC (2.8% of Project Work)**

**Utility Cost Management LLC** primary business is representing utility customers. They professionally reduce clients' electricity, gas, water, sewer and solid waste expenses by identifying and implementing cost-effective savings solutions. Since 1991, UCM has used this approach to reduce utility costs for approximately 1,800 business, government and institutional clients by more than \$140 million.

However, in the process they have developed expertise in analyzing, applying and critiquing utility rates. This expertise is relatively unique outside of the major utilities and their legal representatives. UCM will help RPU establish reasonable and understandable rates for the benefit of RPU and customers alike.

Key Personnel
Michael Kerkorian
Role: Task 3 Leader

In 1991, Michael Kerkorian founded Utility Cost Management LLC (UCM). Today, Michael serves as UCM's Managing Member and is responsible for the firm's efforts to reduce clients' costs through the informed application of utility rates and regulations. While he has continued to work in all facets of UCM's business, he has developed a special expertise in electricity rate and tariff issues.

Michael has analyzed utility charges for thousands of facilities across the United States. He has successfully argued numerous rate and tariff issues on behalf of clients, and has directly supervised the payment of more than \$50 million dollars in utility refunds. He has been responsible for initiating rate changes to utility accounts that have reduced clients' ongoing costs by more than \$150 million.

Michael has testified before the California Public Utilities Commission (CPUC) in more than fifteen proceedings, and has also testified on utility-related issues in California Superior Court. He has represented various parties in the CPUC's "General Rate Case" process, requiring him to analyze utility company costs to evaluate requested utility rate increases. Michael also led a team that was selected by the CPUC to investigate, and report on, the billing practices of an electric service provider with more than 100,000 customers.

Michael has initiated and been involved in many CPUC proceedings that have resulted in important changes to rates, rules, and policies affecting California's agricultural, multifamily, low-income, governmental, and commercial customers. Michael's involvement has included working with utility personnel to draft new tariff language that clearly articulates the revised regulations. These changes frequently have had far-reaching impacts benefitting thousands of utility customers.

PROFESSIONAL SERVICES FOR CITY-WIDE STREET LIGHT LED CONVERSION PROGRAM DEVELOPMENT

## Poster Frost Mirto (2.3% of Project Work)

Poster Frost Mirto is an architectural firm in Tucson with which Mr. Benya and Mr, Monrad have both worked. For the potentially significant issues regarding historic and cultural lighting, Mr. Corky Poster has been added to the team.

#### Key Personnel

Corky Poster, AIA, AICP

Role: Architectural historian and Subject Matter Expert

Corky Poster is a Registered Architect in the State of Arizona since 1976, and a Certified Planner (AICP) since 1990. Mr. Poster's education includes a Bachelor of Arts degree in Architectural Sciences (Magna cum laude) from Harvard College (1969) and a Master of Architecture degree from the Harvard University Graduate School of Design (1973). He has practiced architecture, planning, and urban design in Tucson since 1973. He is one of three principals at Poster Frost Mirto. After 28 years at The University of Arizona, Mr. Poster is now a Distinguished Professor Emeritus at the College of Architecture, Planning, and Landscape Architecture (CAPLA) and the former Director of the Drachman Institute. He was Acting Dean of CAPLA in 2002 and 2003.

## Muni-Fed Consulting (1.7% of Project Work)

Among many energy services, Muni-Fed offers expertise in the financing of long-term infrastructure, industrial projects and public services based upon a non-recourse or limited recourse financial structure where project debt and equity used to finance the project are paid back from the cashflow generated by the project. For most LED projects, project financing is a loan structure that relies primarily on the project's cash flow for repayment, with the project's assets, rights, and interests held as secondary security or collateral. Project finance is especially attractive to the private sector because they can fund major projects off balance sheet.

Muni-Fed Energy utilizes a broad variety of finance partners like Property Assessed Clean Energy (PACE). They are an integral part of the current WRCOG LED project team that includes Southern, Benya Burnett, and Monrad.

## **Key Personnel**

**Phil Bowman** 

Role: Subtask 3h Subject Matter Expert

Mr. Bowman is co-founder of Muni-Fed Energy, Inc. He is responsible for the strategic, legal, financial and operational direction of the company. Mr. Bowman led the development of a financial modeling tool for use in determining the acquisition pricing structure in the WRCOG program and has already developed a preliminary financial pro-forma for each WRCOG city.