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COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

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IN REPLY PLEASE

REFER TO FILE: **BRC-1**

November 14, 2019

REQUEST FOR PROPOSALS - ADDENDUM 1 ON-CALL LIGHT EMITTING DIODE STREETLIGHT CONVERSION AND MAINTENANCE SERVICES (BRC0000103)

Thank you for attending our mandatory Proposers' Conference for On-Call Light Emitting Diode Streetlight Conversions and Maintenance Services (BRC0000103) held on Thursday, October 24, 2019.

Please note that the deadline for Proposal submission has been extended to **Monday, November 25, 2019, by 5:30 p.m.**

- An updated Form PW-2.1 Schedule of Prices has been attached as Enclosure A. Please use Form PW-2.1 when submitting your proposal. (Proposals submitted with PW-2 may be rejected as nonresponsive.)
- An updated Form PW-20.1 Minimum Requirements Affirmation, has been attached as Enclosure B. Please use Form PW-20.1 when submitting your Proposal. (Proposals submitted with PW-20 may be rejected as nonresponsive.)

All addenda and informational updates will be posted at <http://pw.lacounty.gov/brcd/servicecontracts>. Please check the website frequently for any changes to this solicitation.

Please take note of the following revisions to the Request for Proposals (RFP). (Note that the changes that have been added are in **boldface** and deleted languages are ~~strikethrough~~.) Section A is the Addendum and Section B is the Questions and Answers.

A. Addendum

1. Any and all reference to Form PW-2, Schedule of Prices, referenced in the RFP has been deleted in its entirety and replaced with **Form PW-2.1**, Schedule of Prices (**Enclosure A**).

2. Any and all reference to Form PW-20, Minimum Requirements Affirmation, referenced in the RFP has been deleted in its entirety and replaced with **Form PW-20.1, Minimum Requirements Affirmation (Enclosure B)**.
3. The first paragraph of the Notice of RFP has been revised as follows:

PLEASE TAKE NOTICE that Public Works requests proposals for the On-Call Light Emitting Diode Streetlight Conversion and Maintenance Services (BRC0000103) contract. This contract has been designed to have a potential maximum contract term of 5 years, consisting of an initial 2-year term and potential additional three 1-year option renewals. ~~The total annual contract amount of this for the ongoing~~ **maintenance** service is estimated to be \$2 million. **An estimated amount for the turnkey services is not available.** The RFP with contract specifications, forms, and instructions for preparing and submitting proposals may be accessed at <http://pw.lacounty.gov/brcd/servicecontracts/> or may be requested from Mr. Dwayne Case at (626) 458-2575 or dcase@pw.lacounty.gov or Ms. Anna Leung at (626) 458-4072 or aleung@pw.lacounty.gov, Monday through Thursday, 7 a.m. to 5 p.m.

4. The Notice of RFP has been modified to include the following minimum mandatory requirement:
 6. **Proposer has selected a single LED fixture manufacturer for each roadway classification from Public Works' Qualified Product List (QPL) or proposer has identified an alternate manufacturer and/or catalog number for each roadway classification and included photometric performance results and product specifications that demonstrate the ability of the chosen fixture(s) to meet LA County street lighting guidelines on this Form PW-20.1, Minimum Requirements Affirmation. All documentation submitted by the Proposer for LED fixture qualification will be reviewed and verified by Public Works. Failure to meet LA County street lighting guidelines may result in proposer disqualification. For fixture types and wattages not listed in the QPL (i.e. 50W, 70W, MH, MV), the proposer shall use its own expertise and replace with a fixture of similar illumination/color temperature.**

5. Part I, Section 1.B., Minimum Mandatory Requirements has been modified to include the following:

6. **Proposer has selected a single LED fixture manufacturer for each roadway classification from Public Works' Qualified Product List (QPL) or proposer has identified an alternate manufacturer and/or catalog number for each roadway classification and included photometric performance results and product specifications that demonstrate the ability of the chosen fixture(s) to meet LA County street lighting guidelines on this Form PW-20.1, Minimum Requirements Affirmation. All documentation submitted by the proposer for LED fixture qualification will be reviewed and verified by Public Works. Failure to meet LA County street lighting guidelines may result in proposer disqualification. For fixture types and wattages not listed in the QPL (i.e. 50W, 70W, MH, MV), the proposer shall use its own expertise and replace with a fixture of similar illumination/color temperature.**

6. Part I, Section 4.D. Evaluation Criteria, 1. Proposed Price, has been revised as follows:

1. **Proposed Price - Turnkey Services (50 40 points)**

The proposed price should accurately reflect the proposer's cost of providing the required products and services and any profit expected during the Contract term. Prior to scoring, the proposed prices must be adjusted in accordance with the LSBE, DVBE, or SE Preference Programs, as applicable.

- LSBE, DVBE, or SE Preference Programs: To the extent permitted by State and Federal law, should one or more of the bidders qualify for the County's Preference Programs stated in Part I of Form PW-9.1, Request for County's Preference Programs Consideration and CBE Firm/Organization Information Form, the price component points will be adjusted prior to scoring as follows: 15 percent of the lowest price proposed will be calculated, which shall not exceed \$150,000, and that amount will be deducted from the prices submitted by all LSBE, DVBE, or SE bidders who requested and were

granted the LSBE, DVBE, or SE Preference Programs. The LSBE, DVBE, or SE Preference Programs will not reduce or change the proposer's payment, which is based on the Proposer's bid amount.

Subject to such adjustment(s), the lowest Total Adjusted Proposed Price **for Turnkey Services** quoted in the Schedule of Prices (Form ~~PW-2~~ **PW-2.1**) will receive the full weight of this evaluated item. Other proposals will receive a prorated score calculated as follows: divide the lowest Total Adjusted Proposed Price **for Turnkey Services** by each other proposer's Total Adjusted Proposed Price **for Turnkey Services** and multiply the result by the maximum possible points for this evaluation criterion. The proposal with the lowest Total Adjusted Proposed Price **for Turnkey Services** may not necessarily be awarded a contract.

2. Proposed Price - Ongoing Maintenance (10 points)

The proposed price should accurately reflect the proposer's cost of providing the required products and services and any profit expected during the contract term. Prior to scoring, the proposed prices must be adjusted in accordance with the LSBE, DVBE, or SE Preference Programs, as applicable.

- **LSBE, DVBE, or SE Preference Programs:**
To the extent permitted by State and Federal law, should one or more of the bidders qualify for the County's Preference Programs stated in Part I of Form PW-9.1, Request for County's Preference Programs Consideration and CBE Firm/Organization Information Form, the price component points will be adjusted prior to scoring as follows: 15 percent of the lowest price proposed will be calculated, which shall not exceed \$150,000, and that amount will be deducted from the prices submitted by all LSBE, DVBE, or SE bidders who requested and were granted the LSBE, DVBE, or SE Preference Programs. The LSBE, DVBE, or SE Preference Programs will not reduce or change the

proposer's payment, which is based on the proposer's bid amount.

Subject to such adjustment(s), the lowest Total Adjusted Proposed Annual Price for Ongoing Maintenance quoted in the Schedule of Prices (Form PW-2.1) will receive the full weight of this evaluated item. Other proposals will receive a prorated score calculated as follows: divide the lowest Total Adjusted Proposed Annual Price for Ongoing Maintenance by each other proposer's Total Adjusted Proposed Annual Price for Ongoing Maintenance and multiply the result by the maximum possible points for this evaluation criterion. The proposal with the lowest Total Adjusted Proposed Annual Price for Ongoing Maintenance may not necessarily be awarded a contract.

7. Part II, Exhibit A, Scope of Work, Section E. Work Description, has been revised as follows:

- Turnkey services for the approximately 42,000 sellable streetlights comprised of:
 - A streetlight audit (Audit)
 - A streetlight conversion to Light Emitting Diode (LED) and over-current protection (or Conversion)
 - Replacement of pole identifiers (Pole Tag Installation)
 - ~~Post Conversion administration~~

8. Part II, Exhibit A, Scope of Work, Section E. Work Description, 1. Audit, has been revised as follows:

1. Audit

The Contractor shall coordinate all efforts to conduct a pole by pole audit for the approximately 42,000 sellable streetlights and ensure applicable databases are updated with requested information. At minimum, the contractor shall:

- a. Perform an audit, limited in scope, that focuses on:
 - i. Underground or over-ground feed location
 - ii. Assessment of noticeable damage or corrosion to the ~~pole~~**pole**,
 - iii. ~~Foundation~~ **foundation**, or fasteners (i.e., anchor bolts), **etc.**
 - iviii. Identification of small cell sites
 - viv. Identification of streetlights under high voltage electricity lines
 - vi. ~~Photograph of each streetlight~~
9. Part II, Exhibit A, Scope of Work, Section E. Work Description, 2. Conversion, has been revised as follows:

2. Conversion

The Contractor will coordinate all efforts associated with the design of a complete project to convert existing streetlight fixtures as identified and estimated in Exhibit G, LA County Sellable Streetlight Inventory, to Public Works-approved LED streetlight fixtures and equipping **all** street lighting circuits **lights** with fused over-current protection. The conversion will not be considered complete until final project acceptance is given by Public Works. At a minimum, the contractor shall:

- a. Purchase County-approved and rebate qualifying LED fixtures with a minimum vendor's or manufacturer's warranty of 10 years from a vendor authorized by the fixture manufacturer. Contractor shall warrant all labor and replace defective fixtures and parts thereof for a period of 1 year from the date of project acceptance.
- b. Manage deliveries and staging of material to include any secured storage considerations.
- c. Test new LED fixtures to ensure that they are operable and identify locations where repair needs exist.

- d. Provide and affix HPS-equivalency labels, manufacturer labels, and wattage labels to underside of fixtures for identification purposes. Label information shall be legible and visible from the roadway.
- e. Provide traffic control plans as necessary to be reviewed and approved by Public Works and obtain all required no-fee encroachment permits. It is anticipated that most work zones will be established using standard lane closure treatments and not require individual traffic control plans. In situations where more complex traffic patterns exist, custom traffic control plans may be required.
- ~~f. Upon approval from the Contract Manager, support Public Works and/or the County's Public Information Officer in the development of community awareness and notification to ensure minimal neighborhood disturbance. This process may include providing notifications to affected properties, providing project schedules and updates, installation of demo fixtures, and assisting Public Works with addressing community concerns/feedback.~~
- gf. Install replacement fixtures. Provide all necessary fixtures, equipment, hardware, adapters, **photo cells**², and any other materials necessary for a quality installation. Ensure installation quality, compliance with project schedule, and proper disposal and/or recycling of old fixtures.
- hg. Provide quality assurance staff to inspect final work and correct any "punch list" items identified by Public Works staff. The quality assurance staff shall coordinate with Public Works staff to ensure that appropriate inspection procedures are followed, and all repair items are documented and forwarded to Public Works. Should it become evident that errors are being routinely made as part of the conversion,

the contractor shall notify Public Works of the issue and the contractor shall develop a plan for addressing such issues.

- ih. Ensure proper record keeping of conversion inventory to aid on SCE incentive applications.
- ji. Train Public Works personnel in required aspects of installation, routine operation, maintenance, and safety of the LED fixtures installed.
- kj. Coordinate and attend bi-weekly progress meetings with Public Works staff to review installations, schedules, work safety, public safety, and waste material handling procedures and requirements. This meeting may take place in person or via conference call.
- lk. Provide updated electronic post-conversion records for all converted streetlights that include, but not limited to, the date of installation, fixture type, model, wattage, serial numbers etc. ~~These records shall be stamped by a Professional Engineer employed by the Contractor and approved by Public Works.~~
- ml. Install a Public Works-approved over-current in-line fuse device on each individual streetlight³ circuit.
- nm. Update applicable databases with the conversion data and reconcile any discrepancies found.

² Contractor shall use Long Life Photocontrols conforming to the latest C136.10 standard.

³ All LED fixtures shall be manufactured with an over-current in-line fuse device installed. In addition, over-current in-line fuse devices shall be installed at the base of the pole at the hand hole cover of each underground fed streetlight. Contractor must ensure that the over-current in-line fuse device is installed on the County side of the point of demarcation.

Fuse specifications: 5A & 10A 250VAC/12VDC fast acting supplemental Fuse with fiber tube body and nickel-plated brass endcaps. Suitable for general purpose circuits, lighting circuit protection, meter circuits applications. Meets CE, UL listed, standard 248-14, 250VAC (3 to 15A) guide JDYX, file 19180, CSA certified, 250VAC (1/4 to 15A) class 1422-01, file 53787. Corresponding single pole holder shall also be included.

10. Part II, Exhibit A, Scope of Work, Section E. Work Description, 4. Post Conversion Administration, has been deleted in its entirety:

~~4. Post-Conversion Administration (Requires Approval)~~

~~Following Public Works' acceptance of the Conversion, the Contract Manager may request and approve the Contractor to perform any or all of the following service(s):~~

- ~~a. Prepare and submit incentive applications and support SCE's technical reviewers to ensure successful approval of energy rebates.~~
- ~~b. Administer all efforts required to submit and process tariff change from LS-1 to LS-2 and LS-2 to LED tariff and amend any billing records, if required.~~
- ~~c. Provide Public Works with a production ready GIS-based street lighting management solution and attribute database that is transferrable to Public Works' Maintenance Management System (MMS).~~

11. Part II, Exhibit A. Scope of Work, Section E. Work Description, 5. Ongoing Maintenance Services, has been revised as follows:

~~54. Ongoing Maintenance Services~~

~~Contract to maintain approximately 42,000 sellable streetlights, and additional streetlights acquired throughout the term of the contract (collectively known as the *County street lighting system*). At a minimum, the contractor shall provide the following services for the County street lighting system:~~

- ~~a. Provide and administer a 24-hour customer service center with a live attendant including, at a minimum, a toll-free phone number to allow Public Works and general public to report any streetlight issues (e.g., outages, knockdowns, etc.).~~
- ~~b. Provide the necessary equipment, qualified personnel, and materials to maintain the County street lighting system throughout the contract term.~~

- c. Have qualified and experienced personnel and equipment available to respond to non-emergency reports of streetlight outages and repair the malfunction within ~~two working~~ **five (5) calendar** days, unless the degree of repair dictates an alternative schedule to be coordinated and approved by Public Works on a case-by-case basis.
- ed. Provide qualified and experienced personnel and equipment for 24- hour on-call/stand-by personnel to respond to emergency conditions. Personnel must be able to respond on-site to all emergency call outs within **2** hours⁴. The contractor must provide a consistent and reliable means of contacting stand-by personnel from Public Works dispatch center. General circuit outages and individual streetlight burnouts generally would not constitute an emergency except under extenuating circumstances. Examples of typical emergency response items include:
 - i. Streetlight knockdowns (estimated 160 per year)
 - ii. Exposed or damaged wires that constitute a danger to the public as determined by responding emergency personnel (e.g., Sheriff)
 - iii. Equipment damage that may pose an immediate public danger (e.g., broken and hanging fixture/mast arm)
 - iv. Multiple lights out in the same area (determination at the discretion of Public Works)
- fe. Provide an online work order management system and website that allows the County and the general public to remotely check on the status of their service requests, download

historical maintenance reports, and view GIS data on a secure website portal. This system shall only be developed upon approval from the Contract Manager.

- gf. Continue updating and maintaining applicable databases throughout the term of the contract
- hg. Provide adequate storage areas for all necessary equipment and materials to be used for streetlight conversions and maintenance.
- ih. Assist Public Works in processing claims for damage caused by other parties (e.g., insurance claims and restitution) by providing an itemized list of all relevant information regarding damages and repair costs as needed to process claims. All claims shall be processed through Public Works.
- ji. Provide all administrative services for the warranty enforcement for all fixtures including photo cells on behalf of Public Works. Services shall include review of all malfunctions for warranty related problems, manufacturer contact, processing/rectifying warranty remedy, negotiate remedy with manufacturer (with Public Works input as needed), and maintaining appropriate records for components to preserve warranty terms for the duration of the contract.
- kj. Coordinate electrical service repairs/restoration with SCE.

- ~~l.~~ Replace all damaged or missing pull box covers.
- mk. Replace missing pole handhole covers and repair damaged hand hole covers as needed.
- nl. Replace pole identification tags as needed.
- om. Submit request for house side shields to Public Works for review. Furnish and install shields as authorized by Public Works (assume 200 per year).
- pn. Complete all repairs/replacement of equipment as needed to restore streetlights in cases of a knockdown, excluding foundation work⁵². Contractor is expected to maintain an inventory of poles, fixtures and other appurtenances to complete repairs in a timely and expeditious manner (within timelines provided in Section N, "Responsibilities of the contractor" unless otherwise approved by Public Works).
- qo. Conduct annual night-time inspections of all streetlights to identify and repair outages.
- rp. Conduct annual inspections of steel, concrete, fiberglass, and wood poles. Requires approval from the Contract Manger before commencing.
- sq. Repair/**replace** overhead wiring as needed.
- tr. Provide excavation notices to DigAlert as needed.

⁴ Exceptions can be made for emergency callouts located in the further reaches of the County (i.e. Gorman), however, these exceptions will need to be evaluated on a case by case basis, not to exceed 5 hours.

⁵² Foundation work to include installation, removal, and replacement of foundation will be performed by a separate Construction contractor. Contact information for the contractor will be provided in order to coordinate pole restoration efforts.

12. Part II, Exhibit A. Scope of Work, Section I. Removal of Debris, has been revised to include the following:

Recycling and Reuse Plan application is attached as Exhibit J (Enclosure C).

13. Part II, Exhibit A. Scope of Work, Section L. Responsibilities of the contractor, has been revised as follows:

L. Responsibilities of the Contractor

1. The contractor shall maintain a valid and active California issued C-10 State Contractors License throughout the term of the contract, including extensions, if any.
2. The contractor's lead technician and/or subcontractor shall have minimum 5 years of experience performing streetlight retrofits or conversions.
3. The contractor shall have a minimum of 5 years of experience performing streetlight retrofits or conversions and/or on-call streetlight maintenance services as the prime contractor for one or more government agencies.
4. The contractor and/or subcontractor must have experience performing streetlight retrofits or conversions and/or on-call streetlight maintenance services for one or more government agencies must be more or equal to 10,000 streetlights. If such subcontractor's experience is used, contractor must keep the services of the said subcontractor throughout the term of Contract including option years, unless prior written approval from the Contract Manager.

5. The contractor shall be fully equipped to conduct repairs with no assistance from Public Works' personnel.
6. The contractor shall convert a minimum of 2,000 streetlights per month and **up to a maximum of 4,500 per month. Further, the contractor shall maintain** have the capacity to continue conversions at this rate for ~~20 consecutive months~~ or as long as necessary **to convert all streetlights.**
7. The contractor shall install an over-current in-line fuse device on each streetlight at a minimum rate of 2,000 streetlights per month and **up to a maximum rate of 4,500 per month. Further, the contractor shall maintain** have the capacity to continue ~~installments~~ **installations** at this rate for ~~20 consecutive months~~ or as long as necessary **to complete all streetlights.**
8. The contractor shall respond onsite to all emergency call outs within 2 hours⁶. Examples of typical emergency response items include:
 - i. Streetlight knockdowns (estimated 160 per year)
 - ii. Exposed or damaged wires that constitute a danger to the public as determined by responding emergency personnel (e.g., Sheriff)
 - iii. Equipment damage that may pose an immediate public danger (e.g., broken and hanging fixture/mast arm)
 - iv. Multiple lights out in the same area (determination at the discretion of Public Works)
9. The contractor shall respond to non-emergency reports of streetlight outages and repair the malfunction within ~~two~~ working **5 calendar** days, unless the degree of repair dictates an alternative schedule to be coordinated and approved by Public Works on a case-by-case basis.

⁶ Exceptions can be made for emergency callouts located in the further reaches of the County (i.e. Gorman), however, these exceptions will need to be evaluated on a case by case basis, not to exceed 5 hours.

14. Part II, Exhibit A. Scope of Work, Section M. Responsibilities of Public Works, 4., has been revised as follows:

4. Public Works will provide the Contractor with limited access to its existing web-based **Maintenance Management System** MMS (read-only), GIS databases, maps, and other pertinent information required to facilitate the creation and updating of records and completion of assignments.

B. Question and Answer to On-Call Light Emitting Diode Streetlight Conversion and Maintenance Services

The following answers are in response to the request for information and clarification and other questions submitted by proposers for the On-Call Light Emitting Diode Streetlight Conversion and Maintenance Services (BRC0000103). Questions presented in this addendum represent the questions asked by the proposers in the form and context submitted.

1. **Question:** I am inquiring to find out how I might discover the Prime bidders that we, as a lighting distributor, may make ourselves available to them to supply lighting.

Response: The sign-in sheet of all companies in attendance at the Proposer's Conference is posted online at: <http://pw.lacounty.gov/brcd/servicecontracts>.

2. **Question:** Is the county budget for this program constrained to \$2 Million/year for both the LED conversion and the maintenance or is the \$2 Million the anticipated budget for the maintenance services only?

Response: The cost estimate provided is for maintenance services only. Please see addendum item 3.

3. **Question:** Is the described "on-call" portion of this scope for the maintenance portion only or will the county be asking contractors to perform "on-call" LED conversion services as well?

Response: No. The "on-call" portion is for the maintenance only.

4. **Question:** There is quite a variance in price for the 70W HPS equivalent and the 400W equivalent but on the price sheet there is only a

single line item for LED conversion services, does the County expect the contractor to provide a blended rate for this bid item during the bid with an itemized schedule to be negotiated at a later date?

Response: No. Please review the revised Form PW-2.1, Schedule of Prices as indicated in addendum item 1.

5. **Question:** LED conversion scope mentions, "support Public Works and/or the County's Public Information Officer in the development of community awareness and notification to ensure minimal neighborhood disturbance. This process may include providing notifications to affected properties, providing project schedules and updates, installation of demo fixtures, and assisting Public Works with addressing community concerns/feedback.", as this scope is not clearly defined and can have significant associated costs How is the associated price of this service to be included?

Response: This requirement has been removed. Please refer to addendum item 9.

6. **Question:** Does the county have mobilization space available for the LED conversion portion of the scope?

Response: No. Please see Exhibit A, Scope of Work, Work Description, Section E. 2.b., which states: "Manage deliveries and staging of material to include any secured storage considerations".

7. **Question:** For bidding purposes, what percent of streetlight poles will need to have fuses installed?

Response: This has been addressed in the revised PW-2, Form PW-2.1 and addendum item 9. Please see footnote 3.

8. **Question:** On page A5 of the Scope of Work it states, "Provide updated electronic post-conversion records for all converted streetlights that include, but not limited to, the date of installation, fixture type, model, wattage, serial numbers etc. These records shall be stamped by a Professional Engineer employed by the Contractor and approved by Public Works.". The requirement for these records to be stamped by a Professional Engineer is unnecessary and not typical for this work. We request that this requirement be removed.

Response: This has been addressed in addendum item 9.

9. **Question:** Can the County provide an estimated amount of engineer stamped traffic control plans to be included for bidding purposes?

Response: We are unable to provide an estimate at this time.

10. **Question:** Will the county allow for an annual CPI adjustment to the contract?

Response: Yes, the Sample Agreement includes a Cost-of-Living Adjustment proposition. See Part II, Sample Agreement, Tenth paragraph.

11. **Question:** Can the City grant additional response time for the far reaches of the county, such as Gorman?

Response: Please refer to addendum item 11, footnote 4 and addendum item 13, footnote 6.

12. **Question:** Please clarify if there are liquidated damages assigned to the maintenance response times.

Response: Please refer to Part II, Exhibit A, Scope of Work, Section P.3, Liquidated Damages, which states: "For each time the contractor fails to meet the schedule for a streetlight conversion/repair, the contractor shall pay to Public Works, or have withheld from monies due it, a sum equal to 10 percent of the unit price or total estimated labor cost for conversion/repair work, whichever is more. Additionally, for each consecutive calendar day in excess of the time mutually agreed to for a streetlight conversion/repair, the contractor shall pay to Public Works, or have withheld from monies due it, a sum equal to one percent of the unit price or total estimated labor cost per day in excess, whichever is more".

13. **Question:** There is no mention of a photocell to be provided or installed- does the County intend for the contractor to provide the material and installation of these devices? If so please provide a specification.

Response: This has been addressed in addendum item 9. Please see footnote 2.

14. **Question:** There are a number of scope references in the price sheet that are not aligned, as listed below, please clarify:

- a. D.2 Ongoing Maintenance (Per Exhibit A, Scope of Work, Section E.5, d., e., & f.) but in the scope of work document the numbering does not include a E.5 d, please confirm the correct items to include in this line item.
- b. D.8 Pole Knockdown Repair (Per Exhibit A, Scope of Work, Section E.5, q.) but in the scope of work document the numbering does not align.
- c. D.10 Pole Inspection (Per Exhibit A, Scope of Work, Section F.5, s.) in the scope of work document the numbering does not align.
- d. D.11 Overhead Wiring Maintenance (Per Exhibit A, Scope of Work, Section E.5, t.) in the scope of work document the numbering does not align.

Response: This has been addressed in revised PW-2, Form PW-2.1 and addendum item 9.

15. **Question:** How are the USA DigAlerts to be priced out? There is no reference to this work in the price sheet. Also, the price for the service varies depends on site conditions and requirements.

Response: This has been addressed in the revised PW-2, Form PW-2.1.

16. **Question:** Please provide more description for scope item D.11. There is very limited information in the scope of work and overhead wire repair is specific to each occurrence. Are contractors to assume the quantity is for 18000 linear feet replaced per year?

Response: This has been addressed in the revised PW-2, Form PW-2.1.

17. **Question:** Scope items E.5 l, m and n can vary widely. For bidding purposes, can the County provide a specific number of hand holes, pull boxes and pole tags to be replaced annually?

Response: This has been addressed in the revised PW-2, Form PW-2.1.

18. **Question:** Given the complexity and size of this project, as well as the significant response requirements, can the County please consider extending the proposal submission due date by at least two weeks to provide Proposers with sufficient time to prepare thorough responses?

Response: Please refer to page 1 of this addendum for information on the new proposal due date.

19. **Question:** Please confirm which (if any) bonds will be required for this project. Given that there is a substantial planning/audit phase before any fixtures are installed, if bonds are required, can the County require that they be provided within ten days of Notice to Proceed with construction (as that is when they are necessary) instead of at contract execution?

Response: No bonds are required for this solicitation.

20. **Question:** Page 1 of the Notice indicates that the annual contract amount is estimated to be \$2 million. Why is the County opting to spread the construction portion over multiple years and capping the annual amount? In Southern California, many municipalities have acquired thousands of their streetlight fixtures from Southern California Edison (SCE) in one year (some even more than 10,000 in one year). If the opportunity arose to install more than \$2 million fixtures per year, is the County open to installing more?

Response: This \$2 million estimate applies only to the ongoing service portion of the contract. Please see addendum item 3.

21. **Question:** How is the County funding this? Is it open to financing assistance?

Response: The County has identified funding and is not open to financing assistance.

22. **Question:** If any of the required forms are irrelevant, do Proposers still need to submit them but mark N/A on them?

Response: Please refer to Part I, Section 2.A.12 Forms List: "Complete and submit the following forms, which are included in the RFP package".

23. **Question:** Page 1 of the Notice, as well as Page 1.10 of the RFP, note different websites for which vendors must register to receive updates on this bid. Do Proposers need to register on both sites or just one (and if just one, which one)?

Response: The link on page 1 of the Notice is to receive updates to the RFP. The link on page 1.10 is the County's web-based vendor registration system. Proposers must register online with the County's web-based vendor registration system. The registration link on page 1 is optional.

24. **Question:** Page 1.5, Section L discusses the County's Preference Programs. Then Page 1.13, Section Y discusses the County's Community Business Enterprise Participation. Are these two programs the same or different? Are there any specific requirements for this project? The County mentions on Page 1.13, Section Y that it has an "aspirational goal that 25 percent of all County contract dollars go to certified CBEs." Are Proposers required to meet this goal for this bid or is this just a preference? What if there are no qualified relevant CBE's available for this project?

Response: These programs are different. The County Preference Programs provide a preference in the price category to certified businesses (please review Part I, Section 1.L. County's Preference Programs). The Community Business Enterprise Participation Program was established by the County in an effort to do more business with CBEs as stated in Part I, Section 1.Y. Community Business Enterprise Participation, "The County strongly encourages participation by CBEs; however, the final selection will be made without regard to race, color, creed, or gender. The final selection will be based on the proposer's ability to provide the best service and value to the County".

25. **Question:** Page 1.15, Section A.4.a. requires Proposers to submit a copy of their "Certificate of Good Standing" with the State of California. Are there any date requirements for this certificate or can Proposers use a recent cert from 2019?

Response: Please provide your company's most recent "Certificate of Good Standing".

26. **Question:** Page 1.16, Section 5, fourth bullet asks for information about staff assigned to this project. Section 6, first paragraph, second sentence also describes a similar requirement. How are these two requirements different? If they are not necessarily different, are Proposers allowed to answer in just one section and not both (and if so, which section)?

Response: Part I, Section 2.A.5., Experience, relates specifically to the proposer's experience and Section 2.A.6., Work Plan, relates to how the proposer will perform the services required by Exhibit A, Scope of Work. proposers must respond to both sections as stated at the beginning of Section 2.A.5., Experience, "Failure to prepare and include an experience section may result in disqualification of the proposal", and Section 2.A.6., Work Plan, "Failure to prepare and include a work plan may result in disqualification of the proposal".

27. **Question:** Page 1.22 and Page 1.32 Section D.6 mention limitations on exceptions, changes, and provisions to the RFP inserted by the Proposer. Are Proposers allowed to state any exceptions and/or include any additional optional adders in their proposal responses?

Response: No. As stated on page 1.22, Section 3.B., Altering Solicitation Document, "The wording of the solicitation document shall not be changed. Any additions, conditions, limitations, or provisions inserted by the Proposer will render their Proposal irregular and may cause its rejection as nonresponsive".

28. **Question:** Page 1.25, Section H.1, last sentence - indicates instructions for Proposers submitting any confidential information. Are Proposers allowed to mark any required forms as confidential (e.g. litigation history)?

Response: Proposer may mark information they believe is confidential, however, please note on page 1.25, Section H.2., "The County shall not, in any way, be liable or responsible for the disclosure of any such record or any parts thereof, if disclosure is required or permitted under the California Public Records Act or otherwise by law. A blanket statement of confidentiality or the marking of each page of the proposal as confidential shall not be deemed sufficient notice of exception".

29. **Question:** Page 1.28, Section O, last sentence states: "Alternate Subcontractors shall not be listed for the same work." A similar statement also appears on Form PW-8. Are Proposers allowed to list multiple primary (not alternative) subcontractors for the same scope of work? Given the size and geographic expanse of this project, the County would be significantly limiting the competition and efficiency of the project by having this requirement. Further, this requirement is not industry standard in the region or nationally for similar public works projects.

Our concern is that if the responders cannot include multiple subcontractors for the same scope of work, it may severely limit the number of proposals the County receives and potentially exclude highly qualified teams from responding, which in both cases reduces the competitive nature of the RFP itself. Given the large geographic size of the County and the scope of the project, the ability to partner with multiple entities to divide similarly-scoped work and effectively respond within the required timeframes is vital for project success.

Response: Considering the nature of this contract, multiple subcontractors are acceptable.

30. **Question:** Form PW-2 - The County did not include any specifications for photocells. Does it have any (such as length of warranty)? Also, does the County want Proposers to include the pricing of photocells in their turn-key unit prices?

Response: This has been addressed in addendum item 9. Please see footnote 2.

31. **Question:** Exhibit G provides an inventory of the County's streetlight system. However, Items B-1 through B-4 on Form PW-2 do not list wattages. Is the County looking for an average price or a total price based on the inventory specifics (in Exhibit G) divided by estimated quantities for the pricing in Items B-1 through B-4? Other similar projects for public agencies in the region (e.g. Cities of Santa Clarita, CA, Rancho Cucamonga, CA, etc.) typically use a line by line cost proposal sheet that includes a unit cost by wattage. Especially given that cost is 50% of the evaluation for this bid, it seems all the more important for the County to obtain granular-level cost details. Thus, can Proposers provide a supplemental cost sheet with unit pricing by wattage to provide a clearer

understanding of the project based on the specifics of the inventory in Exhibit G?

Response: This has been addressed in the revised PW-2, Form PW -2.1.

32. **Question:** Form PW- 2 - is sales tax required to be integrated into the pricing? If so, please confirm the County's sales tax rate.

Response: Yes. The County of Los Angeles sales tax rate is currently 9.5%, which can be found at this link: <https://www.cdtfa.ca.gov/formspubs/cdtfa95.pdf>. However, as stated in Form PW-2, "The proposer rates (hourly, monthly, etc.) shall include all administrative costs, labor, supervision, materials, transportation, taxes, equipment, and supplies unless stated otherwise in the RFP". Regarding the County's sales tax rate, Part I, Section 3.S., Wages, Materials, and Other Costs, "It is the responsibility of the proposer to calculate the proposal price to take into consideration a possible escalation of wages, materials, and other costs during the Contract period. The Board, County, Public Works, District(s), or Director make no representations regarding future costs or the rate of wages that may become necessary to pay employees of the contractor for the work performed during the contract period".

33. **Question:** Form PW-2 - How should Proposers deal with future tariffs on materials in their proposed pricing?

Response: As stated in Part I, Section 3.S. Wages, Materials, and Other Costs, "It is the responsibility of the proposer to calculate the proposal price to take into consideration a possible escalation of wages, materials, and other costs during the contract period. The Board, County, Public Works, District(s), or Director make no representations regarding future costs or the rate of wages that may become necessary to pay employees of the contractor for the work performed during the contract period".

34. **Question:** Form PW-2 - Most public works streetlight maintenance contracts in the region include hourly rates in the pricing because it is industry standard. Can Proposers include hourly rates on Form PW-2 to be used for any maintenance items that fall outside of the ones listed on Form PW-2?

We were curious to know if form PW-2 could be used for other quotes hourly rates and pricing schedules for both the turnkey conversion and maintenance.

Response: No. As stated in Part II, Exhibit A, Scope of Work, N. Additional Work, 1., "Upon request by the Contract Manager, the contractor shall provide a written quotation for any additional work, based on the rates quoted in Form PW-2, Schedule of Prices, the type of work that most closely corresponds to the additional work, if applicable".

35. **Question:** Form PW-2 - can Proposers provide additional cost sheets with optional adders?

Response: No, please see response to question 27.

36. **Question:** Form PW-2, Item D.6.m, as well as Page A.7, Section 5.m note that the County wants to include replacing missing pole handhole covers in this project. The industry standard in Southern California is that handholes on the poles themselves are repairable but handholes in the ground are not to be repaired because they are maintained by SCE. Please confirm that the County understands this and the scope of work and required pricing is only for repair of handholes on the poles.

Response: This has been addressed in the revised PW-2, Form PW-2.1 and addendum item 11.

37. **Question:** Form PW-2 - Items A.1 through A.4 - The County noted in Exhibit A, Section E that it has 60,000 streetlights but that it is only purchasing 42,000. Can Form PW-2 be updated to include an additional line item for the audit of the additional ~18,000 streetlight fixtures in the County that the County is not purchasing at this time? Industry standard in the region for public works streetlight acquisitions from SCE is to audit all streetlights in the location - this is because it is significantly valuable to the public agency to confirm that it is acquiring every single purchasable fixture that it should. This has resulted in many public agencies in the region purchasing additional streetlight assets that SCE did not initially include as eligible (because the records weren't accurate).

Response: No. Thank you for your suggestion. The Form PW-2.1 stays unchanged.

38. **Question:** Form PW-2 - Item D.11 - Please confirm what the 18,000 quantity is supposed to represent if the scope of work in Exhibit A, Section E.5.t is supposed to be on an as-needed basis. Further, are both labor and material pricing supposed to be included in this line item?

Response: This has been addressed in the revised PW-2, Form PW-2.1.

39. **Question:** Form PW-2 - Can Proposers submit multiple copies of this form for pricing for multiple manufacturer brands or are Proposers required to only submit pricing for one manufacturer brand?

Response: No. Please review the revised Form PW-2.1, Schedule of Prices as indicated in addendum item 1.

40. **Question:** Form PW-6 - Can Proposers add subcontractors' reference information onto this form as well?

Response: Subcontractor reference information is not required at the time of proposal submission. However, we reserve the right to ask for such references in the future or reject any proposed subcontract, per Public Works' sole discretion.

41. **Question:** Part III Sample Agreement, Page 2, Tenth Section - indicates that pricing can only be increased at the time of renewal based on the current Consumer Price Index. But what about increases to material costs and prevailing wages? How will these be handled?

Response: Please see response to question 33.

42. **Question:** Exhibit A - Scope of Work - Does the County have an Excel spreadsheet with all 60,000 streetlight fixtures with GPS (lat/long) coordinates? These were provided by SCE to all public agencies that entered into SCE's acquisition program. This data is essential for Proposers to properly organize their work plans. If the County has this information, can it please share with Proposers?

Response: A file with the inventory of sellable streetlights containing latitude and longitude coordinates has been uploaded and is available at the following link: <http://pw.lacounty.gov/brcd/servicecontracts>.

43. **Question:** Exhibit A - Scope of Work, Page A.3, 1.a.vi - Can the County delete the requirement to include a photograph of each streetlight in the audit? This tends to be unnecessary with other granular information about the fixture obtained during the audit, and slows the pace of the audit. Further, the data storage required for this is excessive and can bog down Proposers' and the County's servers.

Response: Please refer to addendum item 8.

44. **Question:** Exhibit A - Scope of Work - Give that the County has already listed LED wattages by street type, is the County looking for assistance with photometric design for this project? Photometric design is the industry standard in the region and is necessary for the long-term acceptance of the project by the public (because, unlike a watt-for-watt design, a thorough photometric design considers the various nuances of the County's streets to determine specific distribution types for various locations). If the County does want Proposers to conduct a photometric design, please add it to the Form PW-2 cost sheets as a line item and provide requirements for it in Exhibit A - Scope of Work.

Response: No. Thank you for your suggestion. The Form PW-2.1 stays unchanged.

45. **Question:** Exhibit A - Scope of Work, Page A.4.f - mentions: "installation of demo fixtures". Is there an expected pilot phase for this project? If so, please elaborate on the requirements and indicate where/how Proposers should provide pricing for a pilot phase on the Form PW-2 cost sheets.

Response: Please refer to addendum item 9.

46. **Question:** Exhibit A - Scope of Work, Page A.5.k, second paragraph states: "These records shall be stamped by a Professional Engineer employed by the Contractor and approved by Public Works." Can the County eliminate this requirement? This is not industry standard in any similar public works project in the region or nationally because no engineer is relevant/qualified to stamp post-conversion electronic GIS data records.

Response: Please refer to addendum item 9.

47. **Question:** Exhibit A - Scope of Work, Page A.5.4.a - states: "Following Public Works' acceptance of the Conversion, the Contract Manager may request and approve the Contractor to perform any or all of the following services..." Should Proposers include the services listed in this section in their pricing and approach, even though the wording indicates that this may or may not be required?

Response: This has been addressed in the revised PW-2, Form PW-2.1 and addendum items 7 and 10.

48. **Question:** Exhibit A - Scope of Work, Page A.6.4.c states: "Provide Public Works with a production ready GIS-based street lighting management solution..." Please define the term "production ready".

Response: Please refer to addendum item 10.

49. **Question:** Exhibit A - Scope of Work, Page A.6.4.c indicates repair of non-emergency maintenance needs "within two working days". Industry standard in the region for public agency streetlight maintenance contracts is 5 - 7 working days. The reason is that it allows a batching of outages so the installers can combine multiple remedies with each dispatch, which is more cost effective. Can the County change this requirement to 5 - 7 working days?

Response: Please refer to addendum items 11 and 13.

50. **Question:** Exhibit A - Scope of Work, Page A.8.5.p - states: "...excluding foundation work..." Please confirm that the County will contract separately (or handle in-house) any foundation work.

Response: As stated in the footnote on page A.8, "Foundation work to include installation, removal, and replacement of foundation will be performed by a separate construction contractor. Contact information for the contractor will be provided in order to coordinate pole restoration efforts".

51. **Question:** Exhibit A - Scope of Work, Page A.9.5.I states: "A recycling and reuse plan is required for projects within the unincorporated areas of the County including County Capital Projects that requires a grading, construction, and or demolition permit." Please confirm that this project is not subject to the reuse plan requirement.

Response: This provision is required. Please refer to addendum item 12 for more information.

52. **Question:** Exhibit A - Scope of Work, Page A.11.5.L.7 - requires an over-current in-line fuse device to be installed on each streetlight. Can the County please clarify why the fuse device is being required, given that SCE's standard already has the fusing standard and no other public agency has required this in similar projects? If the County is unwilling to remove this requirement, what are the fusing specifications and where should these costs be inserted by Proposers into the Form PW-2 cost sheets? Our recommendation is that fusing can be done on an as-needed basis and included as an adder line item on Form PW-2, given that this hasn't been required in the region before.

Response: The fuses SCE use are insufficient for our standards. We need a disconnect for each streetlight. Please refer to addendum item 9. Please see footnote 3 for specifications.

53. **Question:** Exhibit A - Scope of Work, Page A.11.5.L.7 - how does the required minimum rate of 2,000 streetlights installed per month for 20 consecutive months or as long as necessary sync with the 2-year contract term @ \$2 million/annually from Page 2 of the Notice?

Response: The estimate provided is for the ongoing maintenance service only. Please see addendum item 3.

54. **Question:** Exhibit A - Scope of Work, Page A.11.5.L.8 requires emergency call outs within 2 hours of notice. Given the breadth of geographic region (and traffic impacts within the region), the required 2-hour response time for emergency maintenance seems unreasonable. Can the County change this to 3 - 5 hours?

Response: Please refer to addendum item 11, footnote 4 and addendum item 13, footnote 6.

55. **Question:** Exhibit B, Page B.4 - section A.3 - states: "...the aggregate of all such extensions during the life of this Contract shall not exceed 180 days." Is this 180 day limit unrelated to any project factors outside the selected Proposer's control (such as SCE delays, County delays, material procurement delays, etc.)? Also, how does this section sync with the first

paragraph of Page 1 of the Notice, indicating that this contract may be extended for several years?

Response: Part II, Exhibit B., Section 2.A.3., is not related to project factors but is regarding the term of the contract. The extension of time is in addition to the initial 2-year term, three 1-year optional renewals, and 6 month-to-month extensions and will be exercised per Public Works' sole discretion.

56. **Question:** Exhibit I - Can the County add maintenance services to the schedule? We assumed a schedule for maintenance would also be released but given its on call dynamic we will assume it is done once each phase of lights is acquired.

Response: As stated in Section E of the Scope of Work, page A.3, "The ongoing operation and maintenance services will commence immediately following the first phased transfer of streetlights to the County".

57. **Question:** How many sample unit would you need for product evaluation?

Response: Per RFP, proposers are responsible for selecting fixture manufacturer for LED conversion. Please see addendum item 4 and revised Form PW-20.1, Minimum Requirements Affirmation (Enclosure B).

58. **Question:** Application for QPL?

Response: Please see response to question 57.

59. **Question:** Process/procedure QPL?

Response: Please see response to question 57.

60. **Question:** Schedule/timeline QPL?

Response: Please see response to question 57.

61. **Question:** Form PW-2, line item D.6 lists "Maintenance Part replacements" annually for 42,000 lights. The items listed in the scope of work to be covered by this are often ordered or conducted on an as

needed basis through time and materials. As a result, how should respondents try to predict the quantity needed on an annual basis given the high variance in the regions covered by the County? Can the County consider removing this line item? Without specific data this may be difficult to estimate.

Response: This has been addressed in the revised PW-2, Form PW-2.1.

62. **Question:** On page 21 of the RFP there is a reference to the Community Business Enterprise Participation. If the contractor provides all necessary services related to the scope does this requirement apply?

Response: Yes. This requirement applies throughout the term of the contract.

63. **Question:** Does the contractor need to have a business license for this program?

Response: As stated in Part II, Exhibit B, Section 4.J. Permits/Licenses, "contractor shall be fully responsible for possessing or obtaining all permits/licenses, except as might be specifically outlined in other sections, from the appropriate Federal, State, or local authorities relating to work to be performed under this contract". In addition, a valid and active State of California C-10, Electrical Contractor's License is required for this service.

64. **Question:** On page A.11 part (7) the RFP states that an "over-current in-line fuse device" be install on each streetlight at a rate of 2000k per month. On page A.5 part (M) the RFP states that an over-current in-line fuse device be install on each individual streetlight. Typically, over-current in-line fuse device are installed at the base of the pole at the hand hole. Question, in cases where this is not feasible to install the over-current in-line fuse device at the base of the pole, is it an acceptable practice to install the over-current in-line fuse device inside the fixture housing or have the fixture manufactured with the changeable over-current in-line fuse device installed?

Response: This has been addressed in the revised PW-2, Form PW -2.1. and addendum item 9. Please see footnote 3.

65. **Question:** If a PW form isn't applicable do we include and write NA or omit?

Response: Please refer to question 22.

66. **Question:** Do you have requirements for the photo cell/photo control?

Response: Please refer to addendum item 9. Please see footnote 2.

67. **Question:** What are the requirements for a new minority LSBE?

Response: As stated in Part I, Section 1.L. County's Preference Programs, 1.b., "To apply for certification as an LSBE, businesses should contact the DCBA at <http://dcba.lacounty.gov>". For more information on Minority Business Enterprise, proposer may use the services and assistance of the Small Business Administration and Minority Business Development Agency of the Department of Commerce, the County of Los Angeles Department of Consumer and Business Affairs (dcba.lacounty.gov or [323] 881-3964), and other outreach agencies.

68. **Question:** Who gets LSBE preference?

Response: As stated in Part I, Section 1.L.a., "To the extent permitted by State and Federal law and when the price category is scored, the County will give Local Small Business Enterprise (LSBE) preference during the solicitation process to businesses that meet the definition of an LSBE, consistent with Chapter 2.204.030C.1 of the Los Angeles County Code. An LSBE is defined as a business: 1) certified by the State of California as a small business and has had its principal place of business located in Los Angeles County for at least 1 year; or 2) certified as a small business enterprise with other certifying agencies pursuant to the Department of Consumer and Business Affairs (DCBA) inclusion policy that: a) has its principal place of business located in Los Angeles County, and b) has revenues and employee sizes that meet the State's Department of General Services requirements. The business must be certified by the DCBA as meeting the requirements set forth above prior to requesting the LSBE Preference in a solicitation". In addition, in order to be considered as a LSBE, DVBE, or SE, you must be certified at the time of proposal submission.

69. **Question:** Is the \$2,000,000 approval for maintenance?

Response: The \$2,000,000 is an estimate for ongoing maintenance service only.

70. **Question:** Does the merger rule apply to subcontractors?

Response: Part I, Section 1.M. Notification to County of Pending Acquisitions/Mergers by Proposing/Bidding Company, applies to the Proposer.

71. **Question:** In the title, is "On-Call" only for emergencies?

Response: No. "On-Call" refers to the unscheduled Ongoing Maintenance Services which includes emergency response services as specified in Part II, Exhibit A. Scope of Work, Item E. Work Description, Item 4.d. In addition, please be aware of the following provision in the Scope of Work, Item C. Request of Work from contractor: "The contractor will provide the contracted service on an on-call and continuous basis. Public Works reserves the right to determine if any work is or will be needed and/or requested under this contract at Public Works' sole and absolute discretion. The contractor waives all claims against Public Works for damages or loss of any nature resulting from Public Works' failure to use the contractor's services including, but not limited to, lost profit."

72. **Question:** On page 1.28, O., are multiple subs allowed?

Response: Yes. Considering the nature of this contract, multiple subcontractors are acceptable.

73. **Question:** Exhibit G and PW-2 have no wattage. Are you looking for average price?

Response: This has been addressed in the revised PW-2, Form PW-2.1.

74. **Question:** Pages A.1-A.4 and PW-2, will there be updates for additional fixtures?

Response: Please review the revised Form PW-2.1, Schedule of Prices as indicated in addendum item 1 and revised Form PW-20.1, Minimum Requirements Affirmation as indicated in addendum item 2.

75. **Question:** Exhibit A, paragraph 2 – can this standard be eliminated?

Response: No.

76. **Question:** What is the PW-11 process?

Response: Please refer to Part I, Section 5.C. Solicitation Requirements Review.

77. **Question:** Do women owned companies receive an advantage?

Response: No. Please review Part I, Section 1.Y. Community Business Enterprise Participation. In addition, please see addendum item 6.

78. **Question:** Is product considered in evaluation criteria?

Response: No.

79. **Question:** Is there partial funding from SCE rebates?

Response: No.

80. **Question:** In pre-bid meeting it was understood that the county intends to standardize on a luminaire manufacturer. Could the county please confirm that bidders must submit the same luminaire manufacturer for all roadway configurations on the QPL?

Response: Correct. Please see addendum item 4 for more information.

81. **Question:** Is the County certain that energy savings isn't going to be part of the selection criteria?

Response: Yes. Products on the Public Works QPL already meet certain energy savings requirements and any alternate manufacturers identified by the proposer shall meet same energy savings requirements.

82. **Question:** Will the County consider alternate products from the approved manufacturers, given that products evolve and improve over time?

Response: Yes. Please review the revised Form PW-2.1, Schedule of Prices as indicated in addendum item 1 and revised Form PW-20.1, Minimum Requirements Affirmation as indicated in addendum item 2.

83. **Question:** Will written performance criteria be provided, in order to confirm that approved manufacturers meet the most current County lighting criteria?

Response: Yes. This has been addressed in revised PW-20, Form 20.1, Minimum Requirements Affirmation.

84. **Question:** The quantity of decorative fixtures is not clearly defined in the RFP, can the County please provide an estimated quantity of decorative fixtures?

Response: There are no decorative fixtures as part of the work. Please see addendum item 2 and revised PW-20.1, Minimum Requirements Affirmation (Enclosure B).

85. **Question:** There is no reference to bond requirements in the RFP- does the County have any bond requirements, such as bid bond, payment bond or performance bonds? If so, can the County please provide template forms?

Response: No bonds are required for this solicitation.

86. **Question:** Should contractors assume that the emergency response/make safe to a pole knockdown should be included in the knockdown replacement D.8?

Response: This has been addressed in the revised PW-2, Form PW-2.1.

87. **Question:** As we are assuming that each phase transfer is occurring at a midpoint in a given year can the County modify the bid schedule be modified to express a price per month rate not per year?

Response: No.

88. **Question:** We have noted that the lumen output and wattage of the approved LED luminaires on the Qualified Product List varies significantly. Would the County consider providing bidders with the performance criteria used to qualify these products to aid the bidders in selecting the best value products in terms of their ability to meet or exceed those criteria while at the same time minimizing their associated ongoing utility cost under the SCE LS-2 schedule?

Response: Yes. Please see response to question 83.

89. **Question:** The current RFP evaluation criteria does not include anything related to minimizing future utility costs, however it appears that the annual costs differential based on the SCE LS-2 schedule could be as much as \$150,000 per year depending on which luminaires are proposed. Is the County considering including minimization of annual utility costs in the evaluation criteria?

Response: No. Products on the Public Works QPL already meet certain energy savings requirements and any alternate manufacturers identified by the proposer shall meet same energy savings requirements.

90. **Question:** Section D on page A.4 of the RFP states "Provide and affix HPS-equivalency labels, manufacturer labels, and wattage labels to underside of fixtures for identification purposes. Label information shall be legible and visible from the roadway." We normally provide luminaires with the standard LED wattage label on the bottom of the fixture that is legible from the roadway. Please provide additional information the

requirements for the HPS-equivalency and manufacturer labels that are required.

Response: Similar to LED wattage label except it includes information on the manufacturer and HPS equivalent. These labels may need to be custom made if not standard. Refer to QPL for HPS-equivalency figures.

91. **Question:** Has LA County considered purchasing the LED luminaires from the approved factories on a Direct basis? This would probably save the County at least 20% to 25%. Then, you would only bid out the labor, installation and maintenance. This will guarantee you the best possibly prices on materials and installation.

Response: The County will not purchase the LED luminaires.

92. **Question:** By purchasing the LED cobra heads directly, this actually creates a more fair and level playing field for the manufacturers too. The thinking behind this is simple; if I quote a contractor a cost for ___X___ cobra head brand and that contractor adds too much profit to my quote or bids it incorrectly or bids too high, I'm out, along with him.

Unfortunately the fact is, some of the larger contractors bidding this project only work with specific LED cobra head manufacturers that are on your approved list. These specific contractors receive volume purchase incentive, \$\$ and use these companies only and not the best performing or most efficient fixtures.

Response: Thank you for your concern. However, beside the changes in this addendum, no further changes will be made to this solicitation at this time.

93. **Question:** If buying on a direct basis is not possible, I stronger recommend you ask all Bidders to have a separate line item for Materials only. (LED cobra heads) This way you can actually compare material prices from each company side-by-side. You will also be able to compare installation quotes too.

Response: Thank you for your concern. However, beside the changes in this addendum, no further changes will be made to this solicitation at this time.

94. **Question:** Regarding possible "future" lighting controls, I would suggest you require all the cobra head manufacturers to supply a 7-Pin receptacle on each luminaire. Unless, everything is controlled by a remote time clock, then there's no need for a receptacle.

Response: Thank you for your concern. However, beside the changes in this addendum, no further changes will be made to this solicitation at this time.

95. **Question:** For the decorative pedestrian lighting conversion: the call-out on your plan is a product by Truly Green Solutions, will you offer any additional credits for a WBE company? (woman owned company) Seems there are several additional credits offered for Small Business, etc and I would think a WBE would qualify as well.

Response: There are no decorative fixtures as part of the work. Please see addendum item 2 and revised PW-20.1, Minimum Requirements Affirmation (Enclosure B). Regarding Small Business Enterprise and WBE, please refer to question 24.

96. **Question:** Regarding the LED cobra head fixtures and the Truly Green Ped lamps, will you allow other companies to submit an "or equal" or have you completed your review and evaluations over the last couple of years and what's on the bid is final?

Response: There are no Ped lamps as part of the work. Please see addendum item 2 and revised PW-20.1, Minimum Requirements Affirmation (Enclosure B).

97. **Question:** Regarding the Pedestrian LED lamps for your existing Post Top poles, have you considered a new "Acorn Globe", to replace the old, brown/yellowing globes? To me, this makes sense when installing a new light source since the old globe can reduce the light output by as much as 50%. Something to consider. I would also change out the socket too.

Response: There are no post top poles as part of the work. Please see addendum item 2 and revised PW-20.1, Minimum Requirements Affirmation (Enclosure B).

98. **Question:** There are no quantities mentioned for the decorative replacements. Can you specify the existing fixture wattage, and their

respective quantities so that we may provide the ideal solution and bulk discounts?

Response: There are no decorative fixtures as part of the work. Please see addendum item 2 and revised PW-20.1, Minimum Requirements Affirmation (Enclosure B).

99. **Question:** We also manufacture a highly competitive cobra head fixture. Will you consider cobra head fixtures in addition the four manufacturers who have already been specified?

Response: Yes. Please review the revised Form PW-2.1, Schedule of Prices as indicated in addendum item 1 and revised Form PW-20.1, Minimum Requirements Affirmation as indicated in addendum item 2.

100. **Question:** It was mentioned in the meeting that the sign-in sheet (essentially the provider list) will be sent out to attendees. Is it still planned to send that out to the attendees?

Response: The sign-in sheets are uploaded and available at the following link: <http://pw.lacounty.gov/brcd/servicecontracts>.

101. **Question:** Can the County please estimate the number of lights listed in each zone (numbered 1-5) on the map listed in Exhibit H? This is critical information for effective planning of resources.

Response: A file with the inventory of sellable streetlights containing latitude and longitude coordinates has been uploaded and is available at the following link: <http://pw.lacounty.gov/brcd/servicecontracts>.

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If you have any questions concerning the above information, please contact Mr. Case at (626) 458-2575 or Ms. Leung at (626) 458-4072, Monday through Thursday, 7 a.m. to 5 p.m.

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Very truly yours,

MARK PESTRELLA
Director of Public Works



for JOSE QUEVEDO
Assistant Deputy Director
Business Relations and Contracts Division

DC

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Enc.

SCHEDULE OF PRICES

FOR

LED STREETLIGHT CONVERSION AND ON-CALL MAINTENANCE SERVICES (BRC0000103)

The undersigned Proposer offers to perform the work described in the Request for Proposals (RFP) for the following price(s). The Proposer rates (hourly, monthly, etc.) shall include all administrative costs, labor, supervision, materials, transportation, taxes, equipment, and supplies unless stated otherwise in the RFP. It is understood and agreed that where quantities, if any, are set forth in the Schedule of Prices, they are only estimates, and the unit prices quoted, if any, will apply to the actual quantities, whatever they may be.

TURNKEY SERVICES				
ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE	PROPOSED TOTAL PRICE (Estimated Quantity x Unit Price)
A.1	Streetlight Audit (Per Exhibit A, Scope of Work, Section E.1)	42,000	\$ EACH	\$
B.1	50W HPSV Streetlight Conversion* (Per Exhibit A, Scope of Work, Section E.2)	2	\$ EACH	\$
B.2	70W HPSV Streetlight Conversion* (Per Exhibit A, Scope of Work, Section E.2)	367	\$ EACH	\$
B.3	100W HPSV Streetlight Conversion* (Per Exhibit A, Scope of Work, Section E.2)	28,255	\$ EACH	\$
B.4	150W HPSV Streetlight Conversion* (Per Exhibit A, Scope of Work, Section E.2)	4,923	\$ EACH	\$
B.5	200W HPSV Streetlight Conversion* (Per Exhibit A, Scope of Work, Section E.2)	6,433	\$ EACH	\$
B.6	250W HPSV Streetlight Conversion* (Per Exhibit A, Scope of Work, Section E.2)	1,831	\$ EACH	\$
B.7	400W HPSV Streetlight Conversion* (Per Exhibit A, Scope of Work, Section E.2)	20	\$ EACH	\$
B.8	Other Uncommon Fixture Types/Wattages (MV, MH, LPS, etc.) Streetlight Conversion* (Per Exhibit A, Scope of Work, Section E.2)	17	\$ EACH	\$
C.1	Streetlight Over-Current Device Installation** (Per Exhibit A, Scope of Work, Section E.2)	22,000	\$ EACH	\$
D.1	Streetlight Pole Tagging (Per Exhibit A, Scope of Work, Section E.3)	42,000	\$ EACH	\$
A. TOTAL PROPOSED PRICE FOR TURNKEY SERVICES				\$

ENCLOSURE A (FORM PW-2.1)

ONGOING MAINTENANCE SERVICES				
ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE	PROPOSED TOTAL PRICE (Estimated Quantity x Unit Price)
E.2	Ongoing Maintenance (Per Exhibit A, Scope of Work, Section E.4, b.& c.)	1,000/Year	\$ EACH	\$
E.3	Emergency Response (Pole Knockdown Repair) (Per Exhibit A, Scope of Work, Section E.4, d.i.)	160/Year	\$ EACH	\$
E.4	Emergency Response (Exposed or Damaged wiring) *** (Per Exhibit A, Scope of Work, Section E.4, d.ii & q.)	200/Year	\$ EACH	\$
E.5	Emergency Response (Equipment Damage) (Per Exhibit A, Scope of Work, Section E.4, d.iii.)	100/Year	\$ EACH	\$
E.6	Emergency Response (Multiple Streetlights Out) (Per Exhibit A, Scope of Work, Section E.4, d.iv.)	200/Year	\$ EACH	\$
E.7	Maintenance Updates (Per Exhibit A, Scope of Work, Section E.4, e. & f.)	1/Annual	\$ EACH	\$
E.8	Administrative Services (Claims Processing) (Per Exhibit A, Scope of Work, Section E.4, h.)	500/Year	\$ EACH	\$
E.9	Administrative Services (Warranty Processing) (Per Exhibit A, Scope of Work, Section E.4, i.)	500/Year	\$ EACH	\$
E.10	Maintenance Coordination (Per Exhibit A, Scope of Work, Section E.4, j.)	200/Year	\$ EACH	\$
E.11	Maintenance Part Replacements (Hand Hole Covers) (Per Exhibit A, Scope of Work, Section E.4, k.)	2,000/Year	\$ EACH	\$
E.12	Maintenance Part Replacements (Pole Tags) (Per Exhibit A, Scope of Work, Section E.4, l.)	2,000/Year	\$ EACH	\$
E.13	House Side Shield Installation (Per Exhibit A, Scope of Work, Section E.4, m.)	200/Year	\$ EACH	\$
E.14	Streetlight Operation Inspection (Per Exhibit A, Scope of Work, Section E.4, o.)	42,000/Year	\$ EACH	\$
E.15	Pole Inspection (Per Exhibit A, Scope of Work, Section E.4, p.)	42,000/Year	\$ EACH	\$
E.16	Dig Alert response (Per Exhibit A, Scope of Work, Section E.4.r)	1,500/Year	\$ EACH	\$
B. TOTAL PROPOSED PRICE FOR ONGOING MAINTENANCE SERVICES				\$

ENCLOSURE A (FORM PW-2.1)

*Cost includes material, labor, equipment, and services listed in Exhibit A, Scope of Work, Section E.2. Proposer shall select a single LED fixture manufacturer for each roadway classification. If the selected fixture(s) is not listed on Public Works' Qualified Product List (QPL), Proposer must identify an alternate manufacturer and/or catalog number and include photometric performance results and product specifications that demonstrate the ability of the chosen fixture(s) to meet LA County street lighting guidelines as shown on Form PW-20.1, Minimum Requirements Affirmation. All documentation submitted by the Proposer for LED fixture qualification will be reviewed and verified by Public Works. Failure to meet LA County street lighting guidelines may result in Proposer disqualification. For fixture types and wattages not listed in the QPL (i.e. 50W, 70W, MH, MV), the Proposer shall use its own expertise and replace with a fixture of similar illumination/color temperature.

**The quantity provided represents the installation of over-current in-line fuse devices installed at the hand hole cover of all underground fed streetlights only. All LED fixtures shall also be manufactured with an over-current in-line fuse device installed.

***Includes overhead wiring replacement/repair. Length between streetlight poles averages approximately 100'.

LEGAL NAME OF PROPOSER		
SIGNATURE OF PERSON AUTHORIZED TO SUBMIT PROPOSAL		
TITLE OF AUTHORIZED PERSON		
DATE	STATE CONTRACTOR'S LICENSE NUMBER	LICENSE TYPE
PROPOSER'S ADDRESS:		
E-MAIL		
PHONE	MOBILE	FACSIMILE

PROPOSER'S COMPLIANCE WITH THE MINIMUM REQUIREMENTS

ON-CALL LIGHT EMITTING DIODE STREETLIGHT CONVERSION AND MAINTENANCE SERVICES (BRC0000103)

PROPOSER MUST CHECK A BOX IN EVERY SECTION

Important Note: The information on this form is subject to verification and may not be used for scoring purposes.

Completing this form by itself without including detailed narrative(s) in your proposal to support the minimum mandatory requirement(s) of this RFP, any inconsistencies or inaccuracy in the information provided on this form, and/or your Proposal, may subject your Proposal to disqualification or other actions, at the sole discretion of the County.

At the time of proposal submission, Proposer must meet the following minimum requirements:

- The Proposing entity must have a minimum of 5 years of experience performing streetlight retrofits or conversions and/or on-call streetlight maintenance services as the prime contractor for one or more government agencies **(Subcontracting is not allowed for this minimum requirement)**.

Proposer's Name	Dates of Experience (Mo./Yrs. to Mo./Yrs.)	Description of Services/Experience	Page Number*

*List the page number in the proposal containing the Proposer's resume/experience. (Please attach additional pages if needed.)

- ☐ Yes. Proposer does meet the experience requirement stated above. (In addition to responding on this form, as specified in Part I, Section 2.A.5, Experience, please provide a detailed narrative in your proposal to validate this minimum mandatory requirement.)
- ☐ No. Proposer does not meet the experience requirement stated above. **If you check this box, your proposal will be immediately disqualified as nonresponsive.**

2. The proposing entity's experience performing streetlight retrofits or conversions and/or on-call streetlight maintenance services for one or more government agencies must be more than or equal to 10,000 streetlights; however, proposer may use a subcontractor's experience to collectively meet the 10,000 streetlights requirement. If subcontractor's experience is used for this purpose, contractor must keep the services of the said subcontractor throughout the term of contract including any option years, unless prior written approval is obtained from the Contract Manager.

Proposer's Name	Description of Services/Experience	Number of Streetlights	Type of Experience (Check all that apply)	Page Number*
			<input type="checkbox"/> Streetlight Retrofits or Conversions <input type="checkbox"/> On-Call Streetlight Maintenance Services	
Subcontractor's Name	Description of Services/Experience	Number of Streetlights	Type of Experience (Check all that apply)	Page Number*
			<input type="checkbox"/> Streetlight Retrofits or Conversions <input type="checkbox"/> On-Call Streetlight Maintenance Services	
			<input type="checkbox"/> Streetlight Retrofits or Conversions <input type="checkbox"/> On-Call Streetlight Maintenance Services	

*List the page number in the proposal containing the proposer's/subcontractor's resume/experience. (Please attach additional pages if needed.)

- ☐ Yes. Proposer does meet the experience requirement stated above. (In addition to responding on this form, as specified in Part I, Section 2.A.5, Experience, please provide a detailed narrative in your proposal to validate this minimum mandatory requirement.)
- ☐ No. Proposer does not meet the experience requirement stated above. **If you check this box, your proposal will be immediately disqualified as nonresponsive.**

3. The Proposing entity must submit a copy of their valid and active State of California C-10, Electrical Contractor's License. **Subcontracting is not allowed to meet this requirement.**

☐ Yes. Proposer has submitted a copy of a valid and active State of California C-10 Electrical Contractor's License. Please complete the chart below.

Type of License	License No.	Name of License Holder	Valid/Active Dates

☐ No. Proposer does not have the license as stated above. **If you check this box, your proposal will be immediately disqualified as nonresponsive.**

4. The proposer's lead technician and subcontractor must each have a minimum of 5 years of experience performing streetlight retrofits or conversions.

Proposer's Lead Technician/ Subcontractor Name	Dates of Experience (Mo/Yrs to Mo/Yrs)	Description of Services/Experience	Page Number*

*List the page number in the proposal containing the Proposer's resume/experience. (Please attach additional pages if needed.)

☐ Yes. Proposer does meet the experience requirement stated above. (In addition to responding on this form, as specified in Part I, Section 2.A.5, Experience, please provide a detailed narrative in your proposal to validate this minimum mandatory requirement.)

☐ No. Proposer does not meet the experience requirement stated above. **If you check this box, your proposal will be immediately disqualified as nonresponsive.**

5. Proposer and its subcontractors performing prevailing wage work, must submit proof of a valid and active State of California Department of Industrial Relations Public Works Contractor Registration pursuant to Labor Code 1725.5. **Pending registrations will not be accepted.**

☐ Yes. Proposer and its Subcontractor(s), if performing prevailing wage work, has submitted proof of a valid and active State of California Department of Industrial Relations Public Works Contractor Registration pursuant to Labor Code 1725.5

Name of Registration Holder	Registration No.	Registration Dates	Expiration Dates

☐ No. Proposer and its Subcontractor(s) has NOT submitted proof of a valid and active State of California Department of Industrial Relations Public Works Contractor Registration

6. Proposer has selected a single LED fixture manufacturer for each roadway classification from Public Works' Qualified Product List (QPL) or Proposer has identified an alternate manufacturer and/or catalog number for each roadway classification and included photometric performance results and product specifications that demonstrate the ability of the chosen fixture(s) to meet LA County street lighting guidelines on this Form PW-20.1, Minimum Requirements Affirmation. All documentation submitted by the Proposer for LED fixture qualification will be reviewed and verified by Public Works. Failure to meet LA County street lighting guidelines may result in Proposer disqualification. For fixture types and wattages not listed in the QPL (i.e. 50W, 70W, MH, MV), the Proposer shall use its own expertise and replace with a fixture of similar illumination/color temperature.

PUBLIC WORKS LED ROADWAY LIGHTING QUALIFIED PRODUCT LIST

Instructions: Proposer shall select an option for each Roadway Classification (RC)¹ listed OR Identify an alternate Manufacturer and/or Catalog Number ²

RC	HPS	Manufacturer	Catalog Number ³	Power		
Local	100W	Eaton Cooper Lighting	ARCH-N-PA1-40-730-U-T3-AP-10MSP-PR7	41	Option 1	<input type="checkbox"/>
		General Electric (GE)	ERLC005B430AGRAYGL	43	Option 2	<input type="checkbox"/>
		Holophane & American Lighting	ATBX P50 MVOLT R3 MP NL P7 3K	41	Option 3	<input type="checkbox"/>
		Leotek	GCMJ1-20H-MV-WW-2R-GY-580-PCR7	39	Option 4	<input type="checkbox"/>
Collector	150W	Eaton Cooper Lighting	ARCH-N-PA1-60-730-U-T3-AP-10MSP-PR7	62	Option 1	<input type="checkbox"/>
		General Electric (GE)	ERLC006B430AGRAYGL	55	Option 2	<input type="checkbox"/>
		Holophane & American Lighting	ATBX P70 MVOLT R3 MP NL P7 3K	60	Option 3	<input type="checkbox"/>
		Leotek	GCM2-30H-MV-WW-3R-GY-610-PCR7	58	Option 4	<input type="checkbox"/>
Major	200W	Eaton Cooper Lighting	ARCH-M-PA2-90-730-U-T3-AP-10MSP-PR7	92	Option 1	<input type="checkbox"/>
		General Electric (GE)	ERLH013C330AGRAYGL	111	Option 2	<input type="checkbox"/>
		Holophane & American Lighting	ATBM P20 MVOLT R3 4B MP NL P7 3K	94	Option 3	<input type="checkbox"/>
		Leotek	GCM2-40H-MV-WW-3R-GY-850-PCR7	107	Option 4	<input type="checkbox"/>
Major	250W	Eaton Cooper Lighting	ARCH-M-PA2-100-730-U-T3-AP-10MSP-PR7	101	Option 1	<input type="checkbox"/>
		General Electric (GE)	ERLH014C330AGRAYGL	122	Option 2	<input type="checkbox"/>
		Holophane & American Lighting	ATBM P30 MVOLT R3 4B MP NL P7 3K	118	Option 3	<input type="checkbox"/>
		Leotek	GCM2-40H-MV-WW-3R-GY-950-PCR7	121	Option 4	<input type="checkbox"/>
Major	310W	Eaton Cooper Lighting	ARCH-M-PA2-100-730-U-T3-AP-10MSP-PR7	101	Option 1	<input type="checkbox"/>
		General Electric (GE)	ERLH014C330AGRAYGL	122	Option 2	<input type="checkbox"/>
		Holophane & American Lighting	ATBM P30 MVOLT R3 4B MP NL P7 3K	118	Option 3	<input type="checkbox"/>
		Leotek	GCM2-40H-MV-WW-3R-GY-950-PCR7	121	Option 4	<input type="checkbox"/>
Major	400W	Eaton Cooper Lighting	ARCH-M-PA2-100-730-U-T3-AP-10MSP-PR7	101	Option 1	<input type="checkbox"/>
		General Electric (GE)	ERLH014C330AGRAYGL	122	Option 2	<input type="checkbox"/>
		Holophane & American Lighting	ATBM P30 MVOLT R3 4B MP NL P7 3K	118	Option 3	<input type="checkbox"/>
		Leotek	GCM2-40H-MV-WW-3R-GY-950-PCR7	121	Option 4	<input type="checkbox"/>
Identify alternate Manufacturer and/or Catalog Number (Must complete the following tables and attach supporting documentation)						<input type="checkbox"/>

¹ A single LED Manufacturer shall be selected for all RC's.

² Proposer must demonstrate the ability of the alternate LED fixture(s) to meet LA County street lighting guidelines

³ Type II distribution shall be utilized in alley ways and Type III distribution shall be utilized on roadways

Alternate Manufacturer and/or Catalog Number

HPS	Manufacturer	Catalog Number	Power
100W			
150W			
200W			
250W			
310W			
400W			

Roadway LED Summary****				
	Case 1A	Case 1B	Case 2	Case 3
HPS Equivalent	100W HPSV LED Equivalent Mounting Height 25' Mast Arm 4' Width 40', spacing 140' one side Avg fc > 0.4, avg/min < 6 (2 streetlights) Use LLF =0.9 For calculation points, add an extra 10 feet to both sides for an extra 20 feet.	100W HPSV LED Equivalent Mounting Height 25' Mast Arm 4' Width 40', spacing 170' staggered Avg fc > 0.4, avg/min < 6 (3 streetlights) Use LLF =0.9 For calculation points, add an extra 10 feet to both sides for an extra 20 feet.	150W HPSV LED Equivalent Mounting Height 30' Mast Arm 6' Width 64', spacing 70' Staggered Avg fc > 0.9, avg/min < 3 (3 streetlights) Use LLF =0.9 For calculation points, add an extra 10 feet to both sides for an extra 20 feet.	200W HPSV LED Equivalent Mounting Height 30' Mast Arm 6' Width 84', spacing 70' Staggered Avg fc > 1.4, avg/min < 3 (3 streetlights) Use LLF =0.9 For calculation points, add an extra 10 feet to both sides for an extra 20 feet.
250W HPSV LED Equivalent Mounting Height 30' Mast Arm 6' Width 92', spacing 70' Staggered Avg fc > 1.4, avg/min < 3 (3 streetlights) Use LLF =0.9 For calculation points, add an extra 10 feet to both sides for an extra 20 feet.				
Type				
ma (input current)				
Suggested Model				
FOOTCANDLE (Fc) AVG				
FOOTCANDLE (Fc) MIN				
UNIFORMITY RATIO AVG/MIN				
Voltage				
Flux (lm)				
WATTAGE (W)				
Luminaire Efficacy (lm/W)				
Color Temperature - K				
Bug Rating				
LM-70				
LM-80				
LM-90				

LED ROADWAY LUMINAIRE SPECIFICATIONS

Section 1 SCOPE

- 1.1 The intent of this specification is to establish the minimum acceptable electrical, mechanical, design, and performance requirements within which all equipment must operate satisfactorily and reliably. All items supplied shall be new and unused.
- 1.2 This specification establishes minimum standards for LED luminaire designed for use in County maintained streetlights and highway safety lights in place of traditional High Pressure Sodium (HPS) luminaires.
- 1.3 The County remains the sole judge on the ability of each device to meet specifications.

Section 2 GENERAL

- 2.1 LED equivalents were developed to allow a one-for-one replacement of HPS luminaires with the objective that those equivalents:
 - Meet or exceed the energy savings established by the Engineer in Section 8 of these specifications.
 - Perform at a comparable level in terms of illuminance and uniformity ratio to HPS luminaires.
 - Are suitable for use at signalized intersections and roadways.
- 2.2 Luminaires shall be complete units designed for LED technology and shall not be standard luminaires retrofitted with LED lamps.
- 2.3 Luminaires shall consist of an assembly that utilizes LED's as the light source and shall consist of a housing, LED array, and electronic driver (power supply).

Section 3 OPERATION

- 3.1 The effective life of a luminaire is expected to be a minimum of 15 years (63,000 hours), assuming nighttime operation only.
- 3.2 Luminaires shall be able to operate in temperatures ranging from -20°C to 50°C.
- 3.3 Efficacy shall meet requirements set forth in Section 8 of this specification for the different LED equivalents.
- 3.4 Luminaires shall have a minimum Color Rendering Index (CRI) of 70.
- 3.5 Luminaires shall have a Correlated Color Temperature (CCT) of 3000K +/- 275K.
- 3.6 Distribution type shall meet requirements set forth in Section 8 of this specification for the different LED equivalents.
- 3.7 BUG Rating shall meet requirements set forth in Section 8 of this specification for the different LED

equivalents.

3.8 The failure of individual LED's shall not result in a loss of the distribution pattern.

3.9 Luminaire shall avoid visible flicker to the unaided eye by maintaining the proper output frequency.

Section 4 ELECTRICAL

4.1 Power consumption of the luminaire shall not exceed the maximum set forth in Section 8 of this specification for the different LED equivalents.

4.2 Operating voltage for all luminaires shall be 120V-277V.

4.3 Operating frequency for all luminaires shall be 60Hz.

4.4 Output frequency for all luminaires shall be a minimum of 120Hz.

4.5 Power supplies shall have a minimum power factor of 0.90.

4.6 Power supplies shall meet FCC 47 CFR Part 15/18 for interference.

4.7 Power supply shall be rated a minimum ingress protection of IP54.

4.8 Power Supply drive current shall have an option for field adjustable current.

4.9 Total Harmonic Distortion (THD) shall not exceed 20%.

4.10 All luminaires shall include surge protection devices (SPD) to protect it from damage and failure

for transient peak currents of 10kA minimum.

4.11 SPD's shall be tested in accordance with IEEE C62.41.2 and ANSI standard 62.41.2.

4.12 The luminaire must have a standard 3 prong, 7-pin twist-lock photocell receptacle per ANSI/NEMA C-136.41. The receptacle must rotate.

4.13 Option for ANSI 5-wire and 7-wire PCR shall be available.

4.14 Option for shorting caps shall be available.

4.15 All electrical components shall be UL approved.

4.16 The driver and LED arrays shall be designed for multi-current input operation.

Section 5 MECHANICAL

5.1 Maximum weight of the fixtures shall meet the requirements set forth in Section 8 of this specification for all LED equivalents.

5.2 Housing shall be of die cast aluminum, epoxy primed with silver powder coat except for heat sink which can remain unpainted.

5.3 Housing shall be rated a minimum ingress protection of IP54.

5.4 Optical assembly shall be mounted parallel to the ground and the mast arms and brackets shall be perpendicular to the curb face.

5.5 Luminaire shall mount on 2.375" horizontal tenon with universal 2-bolt slip and vertical adjustment of +/-5°.

- 5.6 Luminaire shall be cooled through the use of heat sinks that resist dirt and water build-up. No fans.
- 5.7 Access to electrical components shall not require the use of tools (tool-less entry).
- 5.8 OPTIONAL: Quick electrical disconnects shall be attached to power door.
- 5.9 Optical assembly of the luminaire shall be protected against dust and moisture intrusion per the requirements of IP-66 (minimum) to protect all optical components.
- 5.10 LEDs shall be provided with discreet over optical elements to provide an IESNA II or III distributions. All LEDs and optical assemblies shall be mounted parallel to the ground. All LEDs shall provide the same optical pattern such that catastrophic failures of individual LEDs will not constitute a loss in distribution pattern.

Section 6 ADDITIONAL COMPLIANCE

- 6.1 Luminaires shall be a DesignLights Consortium (DSL) qualified product.
- 6.2 Luminaire shall be listed under UL 1598 in the U.S. for wet locations.
- 6.3 Luminaire shall be RoHS Compliant.
- 6.4 Luminaire shall meet CalTrans 611 vibration testing and GR-63-CORE section 4.4.1/5.4.2 earthquake zone 4.
- 6.5 Luminaire shall be certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards.
- 6.6 Vendor shall provide independent laboratory certified iso-candela curves. Photometry must be compliant with IESNA LM-79, approved Electrical and Photometric Measurement of Solid State Street Lighting Products. The test laboratory must hold National Voluntary Laboratory Accreditation Program (NVLAP) accreditation for the IESNA LM-79 test procedure or must be qualified, verified, and recognized through the US Department of Energy's CALIPER program.
- 6.7 Manufacturers' LM-80 LED test report shall show a minimum of 10,000 hours.
- 6.8 IES files must be provided prior to submittal of sample fixture.
- 6.9 There should be no significant backlight, uplight, or glare.
- 6.10 LED luminaires used must be uniform throughout the midblock roadways and intersections.
- 6.11 Calculation points for lighting analysis must use a 10'x10' grid. (10 feet left-to-right and 10 feet top-to-bottom).

Section 7 WARRANTY

- 7.1 It is the responsibility of the vendor to ensure that all equipment provided have been thoroughly tested prior to shipment and that each shipment conforms to these specifications.
- 7.2 The minimum warranty for any equipment or material shall be for a period of 10 years from the date of Agency acceptance or the date received by the Agency, whichever is later.
- 7.3 The warranty shall cover all manufacturers' defects, parts, labor, and shipping costs.

Section 8 EQUIVALENCY TABLE

Equivalent	Minimum Energy Savings	Maximum Wattage*	Minimum Efficacy	Maximum Weight	Maximum BUG Rating	Distribution Type
100W	60%	43W	75 lm/W	18 lbs	B1 U0 G2	II**
150W	60%	62W	80 lm/W	22 lbs	B2 U0 G2	III***
200W	35%	107W	80 lm/W	24 lbs	B2 U0 G3	III***
250W	40%	121W	80 lm/W	28 lbs	B3 U0 G3	III***
310W	40%	121W	80 lm/W	30 lbs	B3 U0 G3	III***
400W	50%	122W	75 lm/W	30 lbs	B3 U0 G3	III***

Illuminance for Roadways			
Street Classification	Curb-to-Curb Width	Minimum Average Footcandles	Maximum Uniformity Ratio
1. Major Intermediate	84'	1.40	3.00
2. Collector Intermediate (Secondary)	64'	0.90	3.00
3. Local Residential	40' or less	0.40	6.00

Illuminance for Intersections				
Functional Classification	Average Maintained Illumination at Pavement by Pedestrian Area Classification (fc)			Uniformity (avg/min)
	High	Medium (Preferred)	Low	
Major/Major	3.4	2.6	1.8	3.0
Major/Collector	2.9	2.2	1.5	3.0
Major/Local	2.6	2.0	1.3	3.0
Collector/Collector	2.4	1.8	1.2	4.0
Collector/Local	2.1	1.6	1.0	4.0
Local/Local	1.8	1.4	0.8	6.0

* Including driver

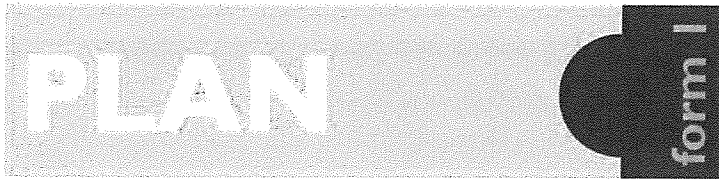
** Type 3 is acceptable if Type 2 not available. Type 2 is preferred.

*** Type 2 is acceptable if Type 3 is not available. Type 3 is preferred.

Proposer declares under penalty of perjury that the information stated above is true and accurate. Proposer further acknowledges that if any false, misleading, incomplete, or deceptively unresponsive statements in connection with this proposal are made, the proposal may be rejected at the sole discretion of the County.

Signature	Title
Firm Name	Date

ENCLOSURE C (EXHIBIT J)



County of Los Angeles Department of Public Works
Environmental Programs Division

CONSTRUCTION AND DEMOLITION DEBRIS RECYCLING AND REUSE PLAN

Complete this C&D Recycling and Reuse Plan and submit to:

County of Los Angeles Department of Public Works,
Environmental Programs Division, Annex Building, 3rd Floor
900 South Fremont Avenue, Alhambra, CA 91803
Office Hours: 7 a.m. – 5 p.m. Monday through Thursday

Date: _____

Or Fax to (626) 628-9733

Or Email to cnd@dpw.lacounty.gov

The Los Angeles County Code, Chapter 20.87, requires projects to recycle 50 percent of the debris generated and to submit this Recycling and Reuse Plan documenting how that will be achieved. The Recycling and Reuse Plan must be approved before any permits are issued. Additional information is available at www.LACountyCND.com or call (626) 458-3517.

PROJECT INFORMATION	Street Address: _____
	City, Zip: _____
	Assessor's Parcel #: _____ Plan Check #: _____
	Project Start Date: _____ Project End Date: _____

PROJECT DESCRIPTION	Circle all that apply: Construction, Demolition, Tenant Improvement, Grading, Interior Remodel

PROJECT SCOPE	Complete pages 1, 2, 3, and the appropriate Attachment Forms. Check the boxes below:
	<input type="checkbox"/> Commercial – complete Attachment C
	<input type="checkbox"/> Grading – complete Attachment G
	<input type="checkbox"/> Residential – complete Attachment R
Submit the required pages to the "C&D Unit" via email, fax, or in person at the public counter.	

FOR PUBLIC WORKS USE ONLY		Date Received
RRP ID: _____ 50%? <input type="checkbox"/> Yes <input type="checkbox"/> No Lower %: _____		
Reason for Lower Percentage: _____		
Project Exempt? <input type="checkbox"/> Yes. Reason: _____		
RRP Approved: <input type="checkbox"/> Yes Date: _____		
Approved By: _____		(626) 458-3517
Sign	Print	

PLAN

form 1

County of Los Angeles Department of Public Works
Environmental Programs Division**CONSTRUCTION AND DEMOLITION DEBRIS
RECYCLING AND REUSE PLAN****SIGNATURE PAGE**

APPLICANT INFORMATION	Name: _____ Company: _____
	Mailing Address: _____
	City, Zip: _____
	Phone: _____ Fax: _____
	Email: _____
	Relation to Project: <input type="checkbox"/> Owner <input type="checkbox"/> Authorized Contractor <input type="checkbox"/> Authorized Representative

OWNER INFORMATION	Name: _____ Company: _____
	Mailing Address: _____
	City, Zip: _____
	Phone: _____ Fax: _____
	Email: _____

Sign below if you are the owner, contractor, or project manager assigned to the project.

Note that any violation of the provisions of Chapter 20.87 of the C&D Debris Recycling and Reuse Ordinance will be subject to an administrative penalty, enforcement, and collection proceedings, as set forth in the chapter and authorized by Section 53069.4 of the California Government Code. The Director of Public Works may withhold approval of any and all Recycling and Reuse Plans submitted by the responsible person on any project until the applicable administrative penalty has been paid. In addition, the amount of any unpaid administrative penalty may be declared a lien on any real property on which the project took place, as provided in Section 20.87.120 of the Ordinance.

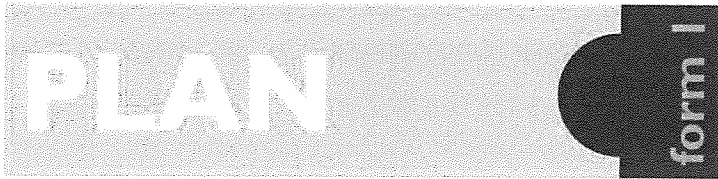
The undersigned fully acknowledges the requirements of Chapter 20.87, Title 20 – Utilities of the Los Angeles County Code, C&D Debris Recycling and Reuse Ordinance, Section 20.87.090.

In compliance with Los Angeles County Code, submittal of the following reports may be required:

Form 2 – Amendment: Required if any changes are proposed to the Recycling and Reuse Plan.

Form 4 – Final Compliance Report: Required no later than 45 days after project completion.

X	_____	_____	_____
	Owner's Signature	Print Name	Date
X	_____	_____	_____
	Signature if Authorized Contractor	Print Name	Date
X	_____	_____	_____
	Signature if Project Manager	Print Name	Date



County of Los Angeles Department of Public Works
Environmental Programs Division

**CONSTRUCTION AND DEMOLITION DEBRIS
RECYCLING AND REUSE PLAN**

OWNER RESPONSIBILITY

Please read and initial each statement if you are (1) **the registered property owner** or (2) **the officer** of the corporation, partnership, limited partnership, or limited liability partnership.

_____ I understand this is a legally binding contract that I and my project manager(s), general contractor(s), contractor(s), and waste hauler(s) agree to fulfill. The use of facilities not listed on Table 1 shall require prior approval.

_____ I understand that the recycling facilities listed on Table(s) 1 are the **only** facilities to be used by my project manager(s), general contractor(s), contractor(s), and waste hauler(s).

_____ I agree to notify any and all persons involved in the project of the need to use **only** the facilities listed on Table(s) 1 by placing a copy of the Recycling Reuse Plan in their contract.

_____ I understand that my **failure** to notify any and all persons of the proper recycling facilities may lead to a failure to comply with the Recycling and Reuse Plan.

_____ I understand that the **failure** of any and all persons to fulfill the minimum recycling requirements may result in me being responsible for any monetary penalties.

_____ I understand that I am **responsible** for obtaining copies of any and all weight tickets from any facility which receives debris from this project. This includes facilities which are listed in this Plan, and those facilities which are not listed in this Plan. The use of facilities which are not listed on the Recycling and Reuse Plan may result in a monetary violation.

_____ I understand that once the project is complete, a Final Compliance Report **must** be filed. If I fail to file a Final Compliance Report or meet the minimum recycling requirements for the project by the required date, for any reason, the Department of Public Works **will assess** a monetary violation of **no less than \$100 for every ton** which needed to be recycled upon me, the officer/owner.

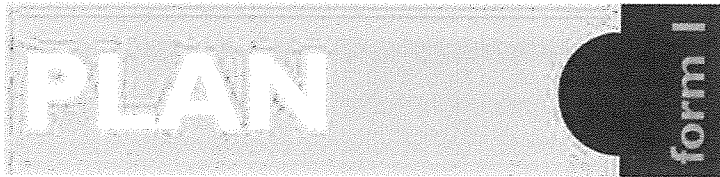
X

Officer's/Owner's signature

Print Name

Date

Rev 6/2019



County of Los Angeles Department of Public Works
Environmental Programs Division

**CONSTRUCTION AND DEMOLITION DEBRIS
RECYCLING AND REUSE PLAN**

ATTACHMENT C - COMMERCIAL

COMMERCIAL DEMOLITION

Commercial wood frame structures including warehouses, apartments, and hotels

Total square footage _____ multiply by 0.06 equals _____ tons generated

Tons generated _____ multiply by 0.65 equals _____ mixed tons generated

Tons generated _____ multiply by 0.35 equals _____ inert tons generated

Commercial concrete/masonry structures

Total square footage _____ multiply by 0.10 equals _____ tons generated

Tons generated _____ multiply by 0.14 equals _____ mixed tons generated

Tons generated _____ multiply by 0.86 equals _____ inert tons generated

Brick or Cinder Block Walls

Wall height (H)(feet) _____ Wall length (L)(feet) _____ Width of block (W)(inches divided by 12) _____

Multiply H by L by W equals _____ cubic feet multiply by 0.029 equals _____ inert tons

Walkways, Driveways, and Parking Lots

Square footage _____ multiply by 0.01 equals _____ inert tons

Total tonnage generated _____ Total mixed tonnage _____ Total inert tonnage _____

COMMERCIAL CONSTRUCTION

Wood-frame structure

Total square footage _____ multiply by 0.002 equals _____ tons generated

Tons generated _____ multiply by 0.65 equals _____ mixed tons

Tons generated _____ multiply by 0.35 equals _____ inert tons

Concrete/masonry structure

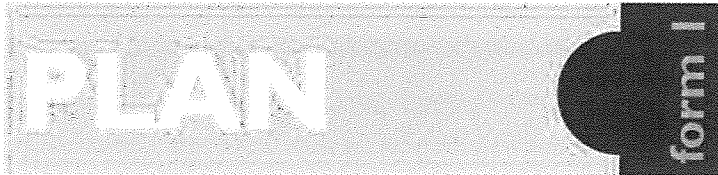
Total square footage _____ multiply by 0.002 equals _____ tons generated

Tons generated _____ multiply by 0.14 equals _____ mixed tons

Tons generated _____ multiply by 0.86 equals _____ inert tons

Total tonnage generated _____ Total mixed tonnage _____ Total inert tonnage _____

ENCLOSURE C (EXHIBIT J)



County of Los Angeles Department of Public Works
Environmental Programs Division

CONSTRUCTION AND DEMOLITION DEBRIS RECYCLING AND REUSE PLAN

Table 1: Facilities to be Used

	A Facility to be Used * (include address & phone number)	B Facility Handling Method ** & Recycling Rate	C Tons to be Sent to Facility	D Tons to be Recycled (multiply B by C)
Sample	ABC Recycling 123 Main Street, Any Town, 98765 (800) 555-1212	Recycle 60% = 0.60	50 tons	30 tons (0.60 multiplied by 50 tons)
Mixed Debris Wood, gypsum, metal, glass, plastic, organics, etc.				
Inert Debris Asphalt, brick, concrete, ceramic, tile, etc.		100% = 1.00		
Totals				

* See *Construction and Demolition Debris Recycling Facilities in Los Angeles County*

** Handling Method: Recycle, Reuse, or Disposal

Table 2: Tonnage Generated

	E Total Tons (from table above)	F Tons to be Recycled or Reused	G Tons to be Disposed (E minus F)	H Diversion Rate (F divided by E)
Mixed Debris				
Inert Debris			0	1.00
Totals				

ENCLOSURE C (EXHIBIT J)

Construction and Demolition Recycling and Reuse

Attachment 1

Provide the following information to the County of Los Angeles Department of Public Works Environmental Programs Division Construction & Demolition Debris Recycling and Reuse Unit by emailing this form to CND@dpw.lacounty.gov

Name of the Project: _____

Address: _____

Project Description:

Estimated Tonnage or Cubic Yard of Debris Generated from:

Grading: _____

Demolition: _____

Construction: _____

Contractor Project Manager: _____

Email Address: _____

County Project Manager: _____

Email Address: _____

Submitted by:	Date:	Email Address:
_____	_____	_____

Office Use Only:

____ Project is encouraged to make a good-faith effort to reduce, reuse, and/or recycle the debris generated to the maximum extent feasible.

____ Project is subject to Part 3 of Section 01 74 19. Submit a Recycling and Reuse Plan (Attachment 2)

Reviewed by: _____ Date: _____

