REQUEST FOR PROPOSALS
ELECTRICAL ENGINEERING SERVICES

PROJECT TITLE: Bootjack Fire Station Electrical Upgrade Designs
RELEASE DATE: Monday, January 18, 2021

CLOSING DATE: Friday, February 26, 2021

CONTACT PERSON:
Melinda Barrett
Program Manager
Mariposa County Resource Conservation District
P.O. Box 2403
Mariposa, CA 95338
MariposaCountyRCD@gmail.com
(559)580-0944

INTRODUCTION:
The Mariposa County Resource Conservation District (MCRCD) received a grant to install a 165,000-gallon water storage tank, fire hydrant, hydrant booster pumps, backup generator, and to upgrade the well pump at the Bootjack Fire Station. In order to complete the project, the County of Mariposa (COUNTY) will be upgrading the electrical service at the fire station to accommodate the new system. MCRCD has full authority to contract for these electrical upgrades through a Memorandum of Understanding (MOU) approved by COUNTY on November 10, 2020.

LOCATION:
The project is located at the Bootjack Fire Station, 3883 Bootjack Lane, Mariposa, California. Electrical work will be performed along a portion of Bootjack Lane, and on COUNTY-owned property (APN 014-400-0620) adjacent to 3901 Bootjack Lane and across from 3896 Bootjack Lane.

DESCRIPTION OF CONSTRUCTION: At 3883 Bootjack Lane, the existing well pump will be upgraded from a 1-1/2 HP to a 7-1/2 HP 3-phase pump; a 165,000-gallon water tank will be installed with a fire hydrant and (3) 7-1/2 HP 3-phase variable frequency drive pumps; a new diesel generator and fuel tank will need to be sized to handle all anticipated loads; the design loads will be used to size the service drop and 3-phase transformer bank by PG&E; and electrical controls will be required to be designed for well, tank, hydrant pump, fire house, and generator to control water and electrical demands.
SCOPE OF SERVICES
MCRCD is seeking a qualified engineer or contractor to:

- Perform electrical load calculations and prepare plans, specifications and estimates for electrical equipment including a new service panel, a backup diesel generator, and automatic switchgear.
- Design a backup generator with automatic switchgear, controls, and instrumentation systems using the attached preliminary design documents and additional information to be provided by MCRCD and COUNTY.
- Design controls for switching water supply from the well to the fire station bladder tanks or water storage tank based on demand.
- Work with MCRCD and COUNTY staff to submit calculated loads for the PG&E application to upgrade the transformer and the electrical service at the fire station.

Bidders may visit the site prior to bidding. An MCRCD representative or COUNTY engineering technician can be available to meet at the site upon request.

Proposals are due by 5:00 p.m. on Friday, February 26, 2021.

QUALIFICATIONS
Bidders must meet the following qualifications:

- Experience applying for new or upgraded electrical service from PG&E
- Proof of general liability insurance (minimum coverage $1 million)
- Possess a valid California electrical engineer’s or contractor’s license
- Fiscal capacity to wait up to 30 days from the date of invoice submission for payment.
- Proof of workers’ compensation insurance.

PROPOSAL FORMAT
A qualifying proposal must include all of the following items:

1. Cover sheet with the following information:
   - Title of proposal
   - Name, address and license number of contractor/engineer
   - Contact person, telephone number, email address, and mailing address

2. Understanding of Project: The contractor/engineer shall provide a brief outline that demonstrates an understanding of the process to prepare and submit an application for service upgrade to PG&E, including performing electrical load calculations and designing the system to meet project requirements.

3. Qualifications of Key Personnel: The contractor/engineer shall provide the names of the key people who will be working on this project, their role in the project, and a synopsis of their experience relevant to these roles. Please list appropriate license numbers for key personnel.
4. References: The contractor/engineer shall provide a minimum of three recent references from similar or related projects, including appropriate contact name, telephone number, and email address.

5. Copies of any licenses or certifications.

6. Proof of general liability insurance, accidental fire insurance, and other insurance listed below:
   a. Workers’ compensation insurance: contractor/engineer shall maintain workers’ compensation insurance for all employees.
   b. General liability and accidental fire coverage: insurance of not less than one million dollars ($1,000,000.00) combined single limit per occurrence for personal injury liability, bodily injury, and property damage. One million dollars ($1,000,000.00) aggregate.

Certificates of insurance will be required, with MCRCD and COUNTY named as additional insured.

7. Project Budget: The proposal shall include a project budget that details the schedule of work. The budget should be created using rates for labor and any necessary equipment, and expected dates and amounts of fees to be paid by MCRCD to PG&E during the application process.

This is a public works project using public funds and as such is subject to certain regulations. Projects with a total budget of more than $25,000 are subject to prevailing wage and certified payroll regulations. Bidders whose proposals exceed $25,000 must comply with all of the applicable provisions of the California Labor Code requiring the payment of prevailing wages and be registered with the Department of Industrial Relations (DIR).

Contractors who work exclusively on small public works projects are not required to register as a public works contractor or file electronic certified payroll reports for those projects. Contractors are still required to maintain certified payroll records on a continuous basis, and provide them to the Labor Commissioner’s Office upon request. Additionally, awarding agencies are not required to submit the notice of contract award through DIR’s PWC-100 system on projects that fall within the small project exemption. The small project exemption applies for all public works projects that do not exceed:

- $25,000 for new construction, alteration, installation, demolition or repair
- $15,000 for maintenance

Current prevailing wage information is attached to this RFP. Proposals must clearly indicate if the proposer is registered with DIR, or if the proposer qualifies for the small project exception.
# Expected Project Timeline

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<th>Milestone</th>
<th>Timeline</th>
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<tr>
<td>Release Request for Proposals</td>
<td>January 18, 2021</td>
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<tr>
<td>Proposals Due to MCRCD</td>
<td>February 26, 2021</td>
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<tr>
<td>Review and Selection of Contractor/Engineer</td>
<td>March 1, 2021</td>
</tr>
<tr>
<td>Service Agreement Signed</td>
<td>March 5, 2021</td>
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<tr>
<td>Begin Design Work</td>
<td>March 8, 2021</td>
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<tr>
<td>Expected Design (PSE’s) Submittal</td>
<td>March 22, 2021</td>
</tr>
<tr>
<td>Expected Work End</td>
<td>November, 2021</td>
</tr>
</tbody>
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## Proposal Submission

Proposals may be submitted via email to MariposaCountyRCD@gmail.com (preferred) or via the US Postal Service to:

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MCRCRD Electrical Services Contract  
P.O. Box 2403  
Mariposa, CA. 95338
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Proposals must be received no later than February 26, 2021. Address any questions to Melinda Barrett at the above email address or by phone at (559)580-0944.
1. TRENCH CONDUIT SECTION

2. FIRE HYDRANT SECTION

3. TYPICAL TRENCH SECTION IN PAVED AREAS

4. TYPICAL TRENCH SECTION IN R/W

- 6" BEDDING
- 95% COMPACTION
- 90% COMPACTION
- PROVIDE MOUND FOR SETTLEMENT
- SELECT FILL
- CLASS II A.B. 6" MIN
- 2" A.C. MIN.
- 4" MIN.
- 4" MIN.
You selected the All Industries database for 7/2020 - 6/2021.

Your search returned the following: Print Format

Area Code: 600006
Area Title: Eastern Sierra-Mother Lode Region of California
OES/SOC Code: 17-3012
OES/SOC Title: Electrical and Electronics Drafters
GeoLevel: 2
Level 1 Wage: $19.81 hour - $41,205 year
Level 2 Wage: $25.15 hour - $52,312 year
Level 3 Wage: $30.49 hour - $63,419 year
Level 4 Wage: $35.83 hour - $74,526 year
Mean Wage (H-2B): $30.49 hour - $63,419 year

This wage applies to the following O*Net occupations:

**17-3012.00 Electrical and Electronics Drafters**

Prepare wiring diagrams, circuit board assembly diagrams, and layout drawings used for the manufacture, installation, or repair of electrical equipment.

O*Net™ JobZone: NA
Education & Training Code: No Level Set

**17-3012.01 Electronic Drafters**

Draw wiring diagrams, circuit board assembly diagrams, schematics, and layout drawings used for manufacture, installation, and repair of electronic equipment.

O*Net™ JobZone: 3
Education & Training Code: No Level Set

**17-3012.02 Electrical Drafters**

Develop specifications and instructions for installation of voltage transformers, overhead or underground cables, and related electrical equipment used to conduct electrical energy from transmission lines or high-voltage distribution lines to consumers.

O*Net™ JobZone: 3
Education & Training Code: No Level Set

For information on determining the proper occupation and wage level see the new Prevailing Wage Guidance on the Skill Level page.

The prevailing wage must be at, or above the federal or state or local minimum wage, whichever is higher. The federal minimum wage is $7.25/hr effective July 24, 2009.
You selected the All Industries database for 7/2020 - 6/2021.

Your search returned the following: Print Format

Area Code: 600006
Area Title: Eastern Sierra-Mother Lode Region of California
nonmetropolitan area
OES/SOC Code: 47-2111
OES/SOC Title: Electricians
GeoLevel: 1
Level 1 Wage: $21.56 hour - $44,845 year
Level 2 Wage: $28.25 hour - $58,760 year
Level 3 Wage: $34.94 hour - $72,675 year
Level 4 Wage: $41.63 hour - $86,590 year
Mean Wage (H-2B): $34.94 hour - $72,675 year

This wage applies to the following O*Net occupations:

47-2111.00 Electricians

Install, maintain, and repair electrical wiring, equipment, and fixtures. Ensure that work is in accordance with relevant codes. May install or service street lights, intercom systems, or electrical control systems.

O*Net™ JobZone: 3
Education & Training Code: No Level Set

For information on determining the proper occupation and wage level see the new Prevailing Wage Guidance on the Skill Level page.

The prevailing wage must be at, or above the federal or state or local minimum wage, whichever is higher. The federal minimum wage is $7.25/hr effective July 24, 2009.
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<th>Level 1 Wage</th>
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<th>Level 3 Wage</th>
<th>Level 4 Wage</th>
<th>Mean Wage (H-2B)</th>
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</thead>
<tbody>
<tr>
<td>600006</td>
<td>Eastern Sierra-Mother Lode Region of California</td>
<td>47-3013</td>
<td>Helpers--Electricians</td>
<td>2</td>
<td>$14.17 hour - $29,474 year</td>
<td>$16.22 hour - $33,738 year</td>
<td>$18.27 hour - $38,002 year</td>
<td>$20.32 hour - $42,266 year</td>
<td>$18.27 hour - $38,002 year</td>
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This wage applies to the following O*Net occupations:

**47-3013.00 Helpers--Electricians**

Help electricians by performing duties requiring less skill. Duties include using, supplying or holding materials or tools, and cleaning work area and equipment.

O*Net™ JobZone: 2  
Education & Training Code: No Level Set

For information on determining the proper occupation and wage level see the new Prevailing Wage Guidance on the Skill Level page.

The prevailing wage must be at, or above the federal or state or local minimum wage, whichever is higher. The federal minimum wage is $7.25/hr effective July 24, 2009.
You selected the All Industries database for 7/2020 - 6/2021.

Your search returned the following: Print Format

**Area Code:** 60006  
**Area Title:** Eastern Sierra-Mother Lode Region of California  
**nonmetropolitan area**  
**OES/SOC Code:** 17-2071  
**OES/SOC Title:** Electrical Engineers  
**GeoLevel:** 1  
**Level 1 Wage:** $38.28 hour - $79,622 year  
**Level 2 Wage:** $44.26 hour - $92,061 year  
**Level 3 Wage:** $50.24 hour - $104,499 year  
**Level 4 Wage:** $56.22 hour - $116,938 year  
**Mean Wage (H-2B):** $50.24 hour - $104,499 year

This wage applies to the following O*Net occupations:

**17-2071.00 Electrical Engineers**

Research, design, develop, test, or supervise the manufacturing and installation of electrical equipment, components, or systems for commercial, industrial, military, or scientific use.  
**O*Net™ JobZone:** 4  
**Education & Training Code:** 5-Bachelor's degree

For information on determining the proper occupation and wage level see the new Prevailing Wage Guidance on the Skill Level page.

The prevailing wage must be at, or above the federal or state or local minimum wage, whichever is higher. The federal minimum wage is $7.25/hr effective July 24, 2009.

The Foreign Labor Certification Data Center is developed and maintained by the State of Utah under contract with the US Department of Labor, Office of Foreign Labor Certification.