

# **PECSD REQUEST FOR PROPOSAL SUBMISSION**

## **DISTRICT SURVEYOR SERVICES**

**SUBMITTED TO:  
PLUMAS EUREKA COMMUNITY  
SERVICES DISTRICT  
BOARD OF DIRECTORS**

**SUBMITTED BY:  
BASTIAN ENGINEERING**

211 Poplar Valley Rd, Blairsden, CA. 96103  
(530) 249-0468, [bastianengineeringinc@gmail.com](mailto:bastianengineeringinc@gmail.com)  
RCE 45489, LS 7045, 175992-2202 Utah PE,  
175992-2201 Utah PLS, P-109808 Idaho PE  
Qualified SWPPP Developer/Practitioner Cert.# 00155

Memberships: ASCE, AWWA, ACEC, California Stormwater Quality  
Association (CASQA)

Daniel B. Bastian is authorized to make commitments on behalf of Bastian  
Engineering, Inc.:



## TABLE OF CONTENTS

1 Introduction .....	3
2 Relevant Experience .....	4
3 Approach to Providing Services .....	5
4 Insurance .....	6
5 Resume .....	7
6 Schedule of Charge Rate .....	10

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## 1 - INTRODUCTION

Bastian Engineering Inc. has prepared dozens of private and public surveys (and related mapping) in Plumas County over a 25-year period and the 10 years prior (as an employee for Larry Fites Engineering). Many of the subdivisions of Plumas Eureka Estates were prepared and surveyed by Larry Fites Engineering or his predecessor, Lundy Engineering. Bastian Engineering purchased all the files of Lundy Engineering and Larry Fites Engineering files in 1997.

In the above-noted time frame, Bastian Engineering Inc. has performed surveys and marked property boundaries, prepared easements and determined rights of way, prepared FEMA related documents for flood hazard boundaries, conduct surveys related to construction projects, assisted local agencies in the development of project bid documents, assisted local agencies in the acquisition, transfer, and sales of local agency properties, participated in city, county and district board meetings and provided service products in a CAD format.

Daniel B. Bastian is the contract Sierra County Engineer and Surveyor. He is also the Portola City Engineer and City Surveyor and District Engineer for Johnsville PUD as noted in the resume portion of this response.

Daniel B. Bastian, Principle-in-Charge, will be personally responsible for all aspects of the district surveying services, documents and content and will review all elements of the work product. All related work will be conducted by or under his direct supervision.

Daniel B. Bastian is a California Registered Civil Engineer (RCE 45489), California Registered Land Surveyor (LS 7045), Idaho Registered Civil Engineer (P-109808), Utah Registered Civil Engineer (175992-2201), Utah Registered Land Surveyor (175992-2202), and a Qualified Stormwater Developer (QSD) and Practitioner (QSP) (Cert. # C00155).

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## 2 – RELEVANT EXPERIENCE

Established in 1997, Bastian Engineering Inc. specializes in providing engineering and surveying services to local government agencies and private clients/developers. Said services encompass a broad discipline of civil engineering, land surveying, land use planning and management.

Bastian Engineering's technical staff is supported by the following hardware/software:  
AutoCAD Land Development 2008  
Trimble S5 Robotic Total Station  
HP large format plotter  
Trimble TCS3 Data Collector  
Trimble R10 GNSS Receiver - Base and Rover Mode  
Complete Engineering and Surveying Design appurtenances

### **2.1 RELATED PROJECT EXPERIENCE**

Bastian Engineering Inc. staff has had relevant project experience involving water and sewer improvement projects and other public works undertakings, several of which involved dealing with the California Department of Public Health and Plumas County Health and Engineering Department.

Current projects (2021 and 2022) include:

City of Portola. Engineer and Surveyor. Portola North Loop (i.e., Joy Way) Rehabilitation and Reconstruction. CEQA preparation coordination. All site surveying, design engineering; plans, specifications and estimate preparation; bid administration and construction surveying. Estimated construction cost is \$2.8 million. Project must be awarded by 9/2022. Reference: Todd Roberts, Public Works Superintendent, 530-832-6806, t.roberts@ci.portola.ca.us

Sierra County. Engineer and Surveyor. Including, but not limited to, review of engineered grading plans; subdivision surveys (i.e., final and parcel maps) reviews; Records of Survey reviews; performing boundary surveys; easement review and preparation; aerial survey control and mapping; drainage facility surveys, design and staking; and topographic mapping. Public Work and Planning Director, Tim Beals, 530-289-3201, tbeals@sierracounty.ca.gov

Johnsville PUD. Engineer and Surveyor. Prepare Preliminary Engineer's Report for water tank replacement. Tank farm and access survey. CEQA preparation and coordination. Grant application participation. State Park easement preparation and coordination. Water source evaluation and coordination with USFS Special Use Permit. Estimated project cost \$1.4 million. Tank Committee Board Member, John Latourrette, 775-843-6159, jalatour@sbcglobal.net

Private client projects. Perform and prepare: Topographic maps, grading plans; lot line adjustments; records of survey; parcel maps; subdivision maps; flood studies; elevation certificates; structural calculations; drainage designs; fire-safe driveway survey and design, property boundary surveys; septic designs, and groundwater monitoring and mapping. References provided upon request.

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### 3– APPROACH TO PROVIDING SERVICES

1. Bastian Engineering Inc. is in Plumas County, Plumas Eureka Estates, CA. The business is in a detached building (i.e., home office) located at 211 Poplar Valley Road.
2. Daniel Bastian and employee David Yeargin will provide the services required by the district.
3. The preferred method for surveying is GNSS (i.e., satellite GPS tracking), but line-of-site surveying via a Trimble robotic total station is often required when tree canopy is too dense for receiver reception.
4. Storing the data is electronic with back-up systems.
5. Project initiation preference would be by phone or email from the District Manager request which defines timeline and the scope of work.
6. All surveys will be conducted by in accordance with the local standards of practice. A CA licensed surveyor is required comply with the CA Land Surveyors' Act of the Business and Professions Code.
7. Normal procedures and methods for reviewing surveying records are to acquire record information from the county, request title reports and review internal documents (i.e., privately-owned information) that may be salient to the survey. Most survey information can be easily obtained on-line, but some public information requires that the county records be obtained at the Plumas County courthouse.
8. Project status reports can be built-in to the scope of work or informally provided upon request.
9. The preferred method for payment is by monthly invoice to the District.
10. The process to complete a boundary survey usually requires research of recorded information and field work to locate record and non-record boundaries. Topographic surveys usually require some boundary work noted above to “index” to surface topography to the “world”. Construction surveying entails staking design improvements (i.e., horizontal, and vertical positions) for use by the contractor.
11. Disputes are best resolved by the surveyor, but often boundary issues are adjudicated by a judge. The surveyor’s knowledge and experience can be helpful in providing opinions that will agree with a judge’s ruling.

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## 4 - INSURANCE

The following is a description of the firm's insurance coverage:

1. Worker's compensation insurance with statutory limits and employer's liability insurance with limits of not less than \$1,000,000 per accident.
2. Commercial general liability insurance with a combined single limit of not less than \$1,000,000 per occurrence and aggregate. Such insurance includes products/completed, operations liability, owner's and contractor's protective, blanket contractual liability, personal injury liability and broad form property damage coverage. Such insurance shall name the public agency, its appointed and elected officials, and its officers and employees as insured and shall be primary with respect to any insurance or self-insurance programs maintained by the agency. Such insurance contains standard cross liability provisions.
3. Commercial automobile liability insurance with a combined single limit of not less than \$1,000,000 per occurrence and aggregate. Such insurance includes coverage for owned, hired and non-owned automobiles and is provided by a business automobile policy.
4. Professional liability (errors and omissions) insurance with a limit of not less than \$1,000,000.

### ***Daniel B. Bastian, Civil Engineer, Land Surveyor***

#### PROFESSIONAL HIGHLIGHTS

City of Portola Engineer. Skilled in municipal site design and construction management - 25 yrs  
East Quincy Services District Engineer and Surveyor. Water/Sewer design engineering and reports - 21 yrs

Sierra County Engineer/Surveyor. Land surveying, flood design, construction plans, bid-award documents - 25 yrs

Johnsville District Engineer – 3 yrs.

Private Consulting Engineer/Surveyor (Plumas County) - 35 yrs.

Proficient AutoCAD Civil/Survey operator/designer; prepared numerous full sets of model-based construction plans

Long term use of Local, State and Federal Manuals

Design/managed construction of civil facilities: grading; roadways; bridges; signal lights; sidewalks; utilities; drainage; water; sewer and special structures - 35 yrs

Prepared: bid-award and design-build contract documents;  
utility/drainage/water/sewer/bridge/flood engineering reports - 35 yrs

Oversaw floodplain mgmt; storm water permitting reviewed plan submittals; inspected facilities construction - 35 yrs

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#### PROFESSIONAL EXPERIENCE

##### **City of Portola Engineer/Surveyor 1997 - Present**

- Review construction documents; such as site plans for the Hospital, Plumas Bank, Leonard's Market, Portola High School Cafeteria Expansion, Library, Court House, etc.
- Prepare plans; such as West Street Improvement, Highway 70 Signal Light and Intersection; A15 Road Reconstruction; C. Roy Carmichael Safe Route to School projects, misc. storm/sanitary sewers; sewage pump lift stations. Oversaw TEA/STIP projects. SWPPP plans. Financial plans, rate/tap fee studies. Administer the preparation of several CEQA and NEPA Documents.
- Prioritized projects: storm; water; wastewater; transportation; updated 10 Yr CIP documents.
- Reviewed: shop plans; construction methods/materials; field changes; pay requests; provided field staking.

##### **Sierra County Engineer/Surveyor 1997 - Present**

Engineer/Surveyor - responsible for review of improvement plans, mapping and surveying - 25 years

- Responsible for development: review road, utility, drainage, grading plans/reports; provided inspection/const. mgmt.

- Provided floodplain mgmt./storm water review; review FIRM maps, plan submittals; inspected permit facilities
- Review traffic reports: traffic control devices, LOS/warrant studies, highway intersection reconfiguration
- Prepared streets and utilities CIPs/budgets
- Developed storm water HEC-2 and water system KYPIPE computer models

### **East Quincy Services District 1997 - 2018**

Responsible for design and construction management of water and sewer site development, including preparation of full sets of contract documents. Prepare preliminary/final drainage, grading, roadway, utility contract documents. Review engineering reports from private firms and municipalities.

- Prepare technical reports
  - Prepare water/wastewater facilities preliminary/final design contract documents
  - Manage bid/award processes and provided construction management
  - Review shop submittals, contractor pay requests; change orders, punch lists
  - Prepare substantial/final completion documents
  - Design site drainage, grading, roadway, utility contract documents and reports.
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### ***EDUCATION***

Brigham Young University, UT  
Bachelor of Science

Boise State University, ID

Completed 30 credit hours undergraduate classes relating to Geological Engineering

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### ***CERTIFICATIONS***

Professional Engineer, Professional Surveyor, Qualified Stormwater Designer/Practitioner (QSD/QSP Certificate #00155)

David P. Yeargin, Civil Engineering Technician/ Designer

Resume

- 1997 to Present - Engineering Technician/ Designer  
Bastian Engineering  
P.O. Box 280, Graeagle, CA 96103  
213 Poplar Valley Road, Blairsden, CA 96103
- 1982 to 1997 - Engineering Technician/ Engineering Associate  
Larry Fites Engineering  
P. O. Box 280, Graeagle, CA 96103
- 1979 to 1982 - Engineering Technician  
Lundy Engineering  
P.O. Box 280, Graeagle, CA 96103
- 1975 to 1979 - City of Glendale, California  
Public Works Division, Engineering Section  
613 East Broadway, Glendale, CA 91206
- 1972 to 1975 - City of Glendale, California  
Parks and Recreation Department  
613 East Broadway, Glendale, CA 91206

Duties: In general;  
Draftsman, surveying, civil design, CAD draftsman, misc technician duties as necessary.

## 5 - SCHEDULE OF CHARGE RATE

### OFFICE AND PROFESSIONAL

PRINCIPAL	\$ 155.00/HR.
ASSOCIATE CONSULTANT	\$ 125.00/HR.
LAND SURVEYOR	\$ 155.00/HR.
ASSOCIATE ENGINEER	\$ 85.00/HR.
ENGINEERING TECHNICIAN/DESIGNER	\$ 85.00/HR.
JUNIOR ENGINEER/SURVEYOR/INSPECTOR	\$ 100.00/HR.
ENGINEERING AID	\$ 75.00/HR.
CLERICAL	\$ 35.00/HR.
OFFICE ASSISTANT	\$ 35.00/HR.

### FIELD

2 MAN CREW	\$ 125.00/HR.
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### OTHER SERVICES

Public Meetings (General Attendance and Consultation)	
Principle	\$ 125.00/MEETING
Expert Witness, Principle	\$ 180.00/hour
Computer-Aided Drafting (CAD)	\$ 45.00/HR.
GNSS and/or E.D.M. Time	\$ 45.00/HR.
Vehicle	\$ .56/MILE
Material	Cost + 15%
Subcontracted Services	Cost + 10%
Authorized Overtime Work.....	Regular Hourly Rate Plus
50%	
Printing .....	Cost + 10%