

Centennial Bridge Rehabilitation



**Request for Proposal
For
Design of Centennial Bridge**

**CITY OF RIFLE
202 RAILROAD AVENUE
RIFLE, COLORADO 81650**

December 2019

Project Directory

Project Engineer

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Invitation for Proposal

For

Centennial Bridge Rehabilitation Design

(9 pages, one set of Structural Drawings, and one Planning Level Design Report compiled by SGM on 11/8/19)

Your firm has been invited to propose on work due to your firm's technical expertise and good standing on past projects. Per City code (Sec 4-30-50, part 6), The City is required to invite at least three qualified firms for work within certain anticipated costs. You are all qualified, therefore:

The City of Rifle invites firms to submit proposals to provide full engineering design, specifications, survey for design and grant assistance as further detailed below in the following.

Proposals will be accepted until 2:00 p.m., February 26th, 2020. A MANDATORY pre-proposal meeting to provide opportunity for questions and a summary of the anticipated scope will be held at the City on January 9th at 10:00 a.m. It is the sole responsibility of the consultant to see that the proposal is delivered to the City before the submission deadline. The consultant shall bear all risks associated with delays in the mail or delivery service. Late proposals will not be considered. An electronic copy may be e-mailed, however, it is the hardcopy that must be in by the deadline. This deadline allows us to place the contract on the council meeting of March 4th, 2020.

This is a BEST VALUE solicitation. Qualifications, experience, performance on past projects (good standing), proposed staff and project manager, and availability are critical aspects of our analysis. The review of submittals will look at completeness of proposal, scope of work consistent with RFP, personnel skill and availability, designated project managers, reviewers, and Engineer of Record (EOR), commitment to schedule, and cost.

Questions concerning this proposal shall be addressed to Craig Spaulding, Civil Engineer at cspaulding@rifleco.org or phone 970-665-6556.

Instructions for Proposal

Proposals are to include the following:

- _____ (4 pages total) Project Understanding & Approach
 - i. (3 pages) Address key project issues the Consultant envisions
 - 1. Survey of existing conditions as required
 - 2. Proposed mitigations in detail as it relates to
 - a. Concrete deck
 - b. Bridge Girders
 - c. Girder Bearings
 - d. Abutments
 - e. Scour Mitigation
 - 3. A Construction Cost Estimate for proposed mitigation (\pm \$250k)
- _____ Brief Corporate Resume showing project team containing professional engineers that can produce structural and civil drawings in the state of Colorado listing previous projects
- _____ Proposed Agreement
 - i. Agreement Conditions
 - ii. Design Schedule with Milestones
 - iii. Fees itemized by deliverable showing rates and totals

Submission Requirements

The proposal shall be submitted in one part. It is required to submit a proposed agreement as an attachment. Any costs, fees, or proposal amounts must be in a separate envelope. Submit the proposal by the deadline to:

Brian Prunty, Public Works Director
City of Rifle
202 Railroad Avenue
Rifle, Colorado 81650

Evaluation Criteria

The City will select a firm that is:

- Has a project team that is able to provide structural and civil drawings stamped by a PE (requirement)
- Effectiveness and Practicality of Proposed mitigation to deck, girders, bearings, abutments, and scour conditions
- Time commitment, and ability to meet schedule
- Local preferences will be applied per City code
- Acceptable fee proposal

The submissions will be ranked by the City using the criteria above and negotiations will be conducted with the highest ranked firm to adjust scope and fee to add preferences/omissions and remove unwanted aspects of the proposal. Once agreement is reached on final scope, schedule and budget, the selection with adjusted fee and scope will be sent to City Council for award. The City has the right to reject all proposals. Non-responsive proposals will be rejected.

Interviews

The City may elect to conduct interviews of project teams associated with this solicitation. Interviews times would be scheduled by the City.

Scope of the Work

This scope of this project is to provide stamped construction documents to be used for the rehabilitation of the Centennial Bridge and the streambed adjacent to the bridge abutments. The bridge shall be rehabilitated such that it meets current bridge design regulations utilizing as much of the existing infrastructure as possible. The expected lifetime of the bridge shall be designed to be a minimum of 15-35 years. The construction budget for the bridge is \$961,240.15 which includes \$221,824.65 in owners contingency.

Construction documents shall include but are not limited to:

1. Civil Drawings
2. Storm water Management Plan
3. Demolition Drawings (These shall include the procedure that the engineer of record expects the contractor to follow in providing a demolition plan)
4. Structural Drawings
5. Technical Specifications

The backup documents that are expected to be used to guide the design are the original structural drawings and the Planning Level Design Report compiled by SGM on 11/8/19 as well as surveying the existing structure if more detail is needed. **All proposals shall be based off of Alternative 1 contained in the Planning Level Design Report.** (If there is evidence that one of the other alternatives is required that shall be noted in the proposal with an explanation.) It should be noted that because of construction schedule it is likely that the topping surface will be concrete in lieu of asphalt. After review of the structure and backup documents has been performed, recommendations shall be made to the City of Rifle in the form of 30% design documents. The City of Rifle will provide comment in a 30% design meeting that can be used to create 70% design drawings. The 70% design drawings will then be reviewed in an onsite meeting where comments can be turned into the final CD drawings. The City Of Rifle also expects to be notified of long lead time materials at 70% Design Meeting so that material acquisition can be performed such that construction begins in October 2020. Each meeting including a kickoff meeting will have action items based on the deliverables below. Between meetings the engineer shall provide weekly updates on the status of the action items.

Once the Design is 100% complete the engineer shall then provide stamped drawings, specifications and a schedule of values including all construction items and their quantities. The City of Rifle will use these documents to issue a Request for Bid where the engineer shall attend the pre-bid meeting and provide response to questions in the form off Addendums. The City of Rifle will select and contract the successful bidder at which point the engineer of record shall attend a preconstruction meeting. The engineer of record shall expect questions in regards to the means and methods of demolition at this point and shall provide responses as required.

During the construction process it is expected that the engineer of record will review all submittals and provide response to Request for Information (RFI's). If shoring is required it will be expected that the construction contractor provide stamped, engineered drawings for the shoring to be reviewed by the Structural Engineer of record. The engineer of record will also be expected to provide in writing approval to remove shoring and approval to open the bridge for service. Any materials testing for these approvals shall be specified by the engineer of record and contracted to a third party by the City of Rifle. Also during construction, the engineer of record shall make field visits weekly or as required to provide in writing that the structure and drainage were constructed per plans and specifications.

The scope of work and expectations of the engineer of record are further outlined below in the deliverables.

Deliverables

(1) – Deliverables, Survey and Design

- a. Full topographic, property/ROW, and utility survey as needed for design
- b. 30% design review meeting at City Hall, with meeting minutes on comments
 - i. Major elements shown, with basic geometry
 - ii. Topography shown
 - iii. General bridge cross section(s) shall be finalized at this stage
 - iv. General Stream Alignment
- c. 70% design review meeting
 - i. Major details provided, road sections, geometry
 - ii. Initial cost estimate
 - iii. Site walkthrough with EOR
 - iv. Specifications
 - v. Minor details
 - vi. Elevations and grading shown
- d. 100% CD Readiness Review
 - i. Final cost estimate
 - ii. Review at City with EOR for final comments
 - iii. Spreadsheet for Contractor invoicing
- e. Construction data shall be referenced to a minimal number of alignment sets, single source of benchmarks, etc.

(2) – Deliverables, Bidding Process

- a. Finalization of all designs to 100%, printable and stamped by the Engineer of Record (EOR), electronic or wet-stamp accepted.
- b. Spreadsheet for Contractor bidding purposes/City invoice tracking
- c. Addendums and responses to questions
- d. Attendance for pre-bid and bid opening

(3) – Deliverables, Construction Management

- a. Construction data, including stations, offsets, elevations, benchmarks, bearings and distances, northings and eastings, in digital format, shall be made available for City, surveyor and contractor for construction. The consultant shall satisfy themselves as to the veracity of any and all data before and during construction.
- b. A waiver of liability to transfer data to the City or contractor will then presume non-professional services are being rendered and only CAD technician services shall be paid for.
- c. Unless otherwise noted, typical practices of construction accuracy (point elevations, N/E, etc.) shall be to 0.1' (one tenth of a foot).

(4) – Construction Consulting

- a. Construction Management sufficient to affirm the plans, staking, gather field data as needed for field changes
- b. Requests for Information (RFI) and Submittals review and approvals shall be through the Consultant first, then to the City with approval/denial/alternate recommendations. Submittal Review shall include review of concrete test data provided by Geotech of Record and approve removal of temporary shoring
- c. Site visit at least once per week during construction or as required. May be coordinated with a weekly job site meeting.

Project Schedule

This project anticipates grant funding to be awarded October 2020 at which point construction can begin. The City of Rifle would like to procure all materials prior to beginning construction which requires the CD Drawings by June 2020.

Centennial Bridge				Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21
RFQ	58	30-Dec-20	26-Feb-21															
PSA Executed	3	4-Mar-20	7-Mar-20															
Concept Design	21	7-Mar-20	28-Mar-20															
70% Design	21	28-Mar-20	18-Apr-20															
70% Design Review	7	18-Apr-20	25-Apr-20															
95% Drawings	21	25-Apr-20	16-May-20															
Design Review	15	16-May-20	31-May-20															
CD Drawings	28	31-May-20	28-Jun-20															
RFB	28	28-Jun-20	26-Jul-20															
NOA	14	26-Jul-20	9-Aug-20															
Contract Execution	14	9-Aug-20	23-Aug-20															
Shop Drawings	28	23-Aug-20	20-Sep-20															
Shop Drawing Review	14	20-Sep-20	4-Oct-20															
Steel Procure/Fab	14	4-Oct-20	18-Oct-20															
GCFMLD Fall Grant		1-Aug-20	16-Oct-19															
Stream Work	63	16-Oct-19	18-Dec-19															
Demo	21	18-Oct-20	8-Nov-20															
Steel Set	21	8-Nov-20	29-Nov-20															
Shoring	21	29-Nov-20	20-Dec-20															
Deck Pour	21	20-Dec-20	10-Jan-21															
Deck Cured	14	10-Jan-21	24-Jan-21															
Waterproofing and Topping Slab	21	24-Jan-21	14-Feb-21															
Cure Topping Slab	14	14-Feb-21	28-Feb-21															

List of Attachments

1. Planning Level Design Report compiled by SGM on 11/8/19
2. 2019 Structural Inspection and Inventory Report
3. Original Construction Drawings

Please contact Craig Spaulding, Civil Engineer at cspaulding@rifleco.org, if you have a preference and provide an email affirmation that you have received all files in readable condition.