

Red River Valley Water Supply Project
Request for Statement of Qualifications
and
Preliminary Proposal for Value Engineering Services

June 7, 2018

The Garrison Diversion Conservancy District (Garrison Diversion) is requesting Statements of Qualifications and Preliminary Proposals (SOQ/PP) from qualified engineering firms to provide a Value Engineering Team (VE Team) for review of the Red River Valley Water Supply Project Preliminary Design Report (PDR) dated April 2018 and milestone design submittals (60%) of Pipeline and Trenchless Crossings Contract 5. The firm will be selected using the following process:

- A) The Selection Committee will conduct an initial evaluation of firms that submit a SOQ/PP. The Selection Committee will determine the top three firms and conduct phone interviews to obtain clarification on the submittals and to collect additional information. Based on the submittals and phone interviews, the Selection Committee will determine the best-qualified firm.

- B) After the Selection Committee has determined the best-qualified firm, all other firms will be notified that the selection process has been completed, and they were not selected. Negotiations with the first ranked firm will then be initiated. If those negotiations are unsuccessful, Garrison Diversion will enter negotiations with the second ranked firm. A form contract proposed by Garrison Diversion will be made available to the top three firms prior to phone interviews.

- C) Garrison Diversion reserves the right to evaluate the submitted SOQ/PP, to waive any irregularities therein, or to reject any and all SOQ/PP should it be deemed in the best interest of Garrison Diversion.

The deadline for receipt of the SOQ/PP is 2:00 p.m. CST, June 28, 2018. Ranking will take place the following week with phone interviews to follow. It is the Selection Committee's goal to complete the process as indicated in the Schedule under Scope of Services.

The SOQ/PP can be emailed or delivered on flash or thumb drive to:

Kip Kovar, P.E.
District Engineer/Deputy Program Manager for RRVWSP Engineering
Garrison Diversion Conservancy District
PO Box 140
401 Hwy 281 NE (physical address)
Carrington, ND 58421

If you have any questions concerning the project or the preparation of a SOQ/PP, please contact Kip Kovar at 701-652-3194 (work), 701-652-5736 (cell), or kipk@gdcd.org.

Scope of Services

Introduction

The Red River Valley Water Supply Project (RRVWSP, the Project) is being undertaken to provide a reliable supplemental water supply to eastern and central North Dakota (ND), primarily in the event of future severe drought conditions. The Project may also provide water to support industrial development in addition to being an environmental benefit to local downstream rivers during times of severe drought by augmenting natural flows. The current Project is a state and locally funded Project, replacing the previously federally funded version. The attached figure shows the pipeline alignment and the Project's major hydraulic structures.

Background

The Project consists of a conventional surface water intake on the Missouri River and an associated pumping station, a biota water treatment facility, several hydraulic facilities along the pipeline's alignment, and a 167-mile pipeline that will flow from the Missouri River near Washburn, ND, to the Sheyenne River immediately north of Lake Ashtabula. The peak capacity of the system will be 165 cubic feet per second (cfs). As conditions warrant, water will be taken directly from the pipeline as well as released from Baldhill Dam (Lake Ashtabula) and transported to the end users via the Sheyenne and Red Rivers (River System), in addition to meeting certain aquatic needs.

As Garrison Diversion's engineering consultant, the Black & Veatch/AE2S Team (Project Team) was tasked with providing a Preliminary Design Report and a 60-percent design submittal for Pipeline Contract 5 (28 miles of pipeline). In addition, the Project Team is securing construction related permits, completing cultural and environmental evaluations and assessments along the alignment, and assisting Garrison Diversion in obtaining access agreements and 150-foot permanent easements. The Project Team is also assisting Garrison Diversion with property platting and acquisition of parcels on which to build facility assets.

VE Project Description

The source of water will be the Missouri River through a conventional intake south of the City of Washburn, ND. A 72-inch diameter pipeline will convey water approximately 167 miles east to the Sheyenne River. The water will be pumped through two pump stations: 1) Missouri River Intake Pumping Station (MRIPS) and 2) Main Pumping Station (MPS). The MRIPS will pump water from the Missouri River to treatment facilities, located at the MPS, to meet State requirements. Water will then be pumped from the MPS to a high point where it will enter Hydraulic Break Tanks (HBT) and then flow by gravity to the Control Valve Structure (CVS) and Discharge Structure and finally into the Sheyenne River. Lake Ashtabula will serve as a regulating reservoir, allowing controlled releases of the water as needed.

The VE will focus on the hydraulics and pipeline components, as more fully described in the PDR (and the 60-percent pipeline design submittal). Specific items for review include:

- Technical/cost/value review of the proposed utilization of HBT in the conveyance system (versus none)
- Technical/cost/value considerations (benefits/drawbacks) of a pressure control structure deployed between HBT and CVS
- Technical/cost/value review of the proposed number and type of pipeline isolation valves
- Technical/cost/value review of proposed pipe material and interior/exterior coatings
- Technical/cost/value review of proposed trenchless crossings designs. (Note: the need for the trenchless crossings is not being reviewed but alternative designs or construction techniques should be evaluated.)
- Technical/cost/value review of proposed number of air release/vacuum relief facilities
- Technical/cost/value review of proposed blow-off facilities
- Technical/cost/value review of proposed fiber optic data/communication system
- Technical/cost/value review of proposed corrosion control plan
- Technical/cost/value review of proposed agricultural land restoration plan

As a part of the Conceptual Design Report, developed prior to the PDR, a 400-foot corridor for the pipeline was established; therefore, evaluation of other corridors will not be a part of this VE evaluation. Garrison Diversion has obtained easement options for about 50 percent of the necessary pipeline right-of-way.

VE Scope of Work

It is intended that the selected firm will conduct a 40-hour value workshop to be held in Fargo, ND, at a time and place as agreed by Garrison Diversion and the firm.

The work will consist of the following individual task:

- Communicating with Garrison Diversion's project manager either in person or by telephone and reaching a decision about details of the value study, including the duration of the workshop.
- Communicating with Garrison Diversion's project manager either in person or by telephone to review the Project and any issues and reach an agreement regarding the date for the value workshop and the team members to be provided by Garrison Diversion, if any, and by the firm.
- Prior to the value workshop, accomplish the following activities:
 - Coordinate workshop logistics;
 - Review the design documents and other documents about the Project provided by Garrison Diversion with the value team members;

- Using information provided by Garrison Diversion and by the design team, prepare cost, energy, life-cycle cost, space, and/or other models appropriate; and
- Conduct a validation of the estimate project cost.
- Workshop will be conducted using a job plan consistent with the Society of American Value Engineers (SAVE) International guidelines for value studies. The workshop will be conducted in the location identified in this SOQ/PP. The facility in which the workshop will be conducted will be provided and paid for by Garrison Diversion. The value workshop will consist of the following six phases conducted over a period of five (5) consecutive days:
 - Information Phase
 - Function Analysis Phase
 - Creativity Phase
 - Evaluation Phase
 - Development Phase
 - Presentation Phase
- Following the value workshop, conduct the following activities:
 - Submit the preliminary value report in electronic and hard copy format, consisting of the workshop products within fourteen (14) days of the completion of the value workshop;
 - Review the design team written responses to the preliminary value report, consult with the value team members as necessary, and prepare for a decision-making meeting;
 - Attend the decision-making meeting and provide information to the decision-makers at the meeting relative to the pros and cons of each value recommendation. Respond to the concerns raised by the design team and others, and assist the designer, design project manager and Garrison Diversion's project manager in reaching decisions about whether to incorporate each value recommendation into the project.
 - Prepare a draft final report within fourteen (14) days following the decision-making meeting that document the entire VE study, including the decision made.

Make appropriate revisions to the draft final report based on comments from Garrison Diversion's project manager and provide an electronic and five (5) hard copies within fourteen (14) days following receipt of comments from Garrison Diversion's project manager.

VE Materials –

- Preliminary Design Report
- Pipeline Contract 5 – 60% design submittal
- Trenchless Crossings Contract 5 – 60% design submittal
- Engineer's Opinion of Probable Construction costs

Schedule

The following draft schedule is anticipated for the study;

- | | |
|---|-----------------------|
| ▪ Issue SOQ/PP | June 7, 2018 |
| ▪ Firm Submit Qualifications | June 28, 2018 |
| ▪ Selection Committee evaluates Qualifications and short-list | July 5, 2018 |
| ▪ Selection Committee conduct interviews | July 12, 2018 |
| ▪ Notify most qualified firm | |
| ▪ Scope/Fee/Negotiation | July 26, 2018 |
| ▪ Board Approval (Garrison Diversion & Lake Agassiz Water Authority) | August 16, 2018 |
| ▪ Notice to Proceed | |
| ▪ Pre-workshop tasks | August 30, 2018 |
| ▪ Workshop | September 10-14, 2018 |
| ▪ Preliminary Report | September 24, 2018 |
| ▪ Decision/Implementation | October 1, 2018 |
| ▪ Draft Final Report | October 15, 2018 |
| ▪ Final Report | October 29, 2018 |

Criteria for Evaluation of the SOQ/PP

The criteria for both evaluating and ranking the firms will include the following:

1. The education, experience and expertise of the VE team members. Garrison Diversion expects the team listed in the proposal to perform the work on the Project. (Any proposed Project Manager without SAVE certification will disqualify the firm's proposal.)
2. The firm's specific experience history of performance on similar VE projects for pipeline projects.
3. Availability of the proposed personnel to perform the required work in the timeframe of the VE review.
4. The firm's approach to the planning, organizing and managing the VE effort, including communication procedures, approach to problem solving, cost estimating, quality improvement program and similar factors.

5. Recommendations and opinions of firm's previous VE clients as to its ability to provide valuable VE recommendations and meet deadlines and remain within budget.
6. Selection of a firm will be on the basis of proposal reviews and responses provided by the references. The evaluation will be conducted based on the following:

| <u>Criterion:</u> | <u>Weight</u> |
|---|----------------------|
| ▪ Understanding and Approach | 20 |
| ▪ VE Team Member Qualifications | 25 |
| ▪ VE Team Leader Qualifications | 25 |
| ▪ Previous Experience and Performance | 15 |
| ▪ Availability and Schedule | 10 |
| ▪ Recent and current work for ND entities | <u>5</u> |
| | 100 |

Garrison Diversion will make selections for interviews on the basis of the written proposals. Interviews will be held with up to three qualified firms. Final selection of the successful firm(s) will be based on a majority vote of the Garrison Diversion Board, or an authorized committee thereof.

Instructions for Preparation of SOQ/PP

General

In order to minimize the work of the firms initially submitting and the review time required by the Selection Committee, the following instructions should be followed in preparing the SOQ/PP. We ask firms to judge for themselves if they feel qualified to perform the work and if they do, to submit to this request.

- Organize the submittal into the following sections:
 - Section 1 – Project Team Organization
 - Section 2 – General Information about the Firm
 - Section 3 – Experience Record and References
 - Section 4 – VE Session Approach
 - Section 5 – Estimated Cost of the Preliminary Proposal
 - Section 6 – Summary

- Limit the contents of the submittal to that described for each section.

- Be succinct.

Section 1 - Project Team Organization

Provide the following information about the organization or team which you would establish for this particular project.

- Name of firm(s)

- Relationship of the firms, if more than one.

Will relationship be a joint venture or a prime-sub type? If prime-sub type, state which firm will be the prime and what role the subs will play in the Project.

- Key personnel expected to be assigned to the project.

List the VE team members on the Project. If more than one firm is involved, provide this information for each firm and clearly indicate who will serve as project manager for the entire team.

- Brief Resumes

Provide an abbreviated resume for each individual listed in the Project organization. Include the following information in each resume:

- Name
- Title within the firm
- Project assignment
- Education - degree/year/university/specialty
- Registration - state/year
- Certifications or special training that relate to VE reviews
- Number of years with current firm
- Summary of experience relative to this type of project

Section 2 - General Information about the Firm

- Type of firm (private/public Corporation, partnership)

- Number of years in business

- Office locations - list home office and office of Project Manager

- Type of services firm normally provides

- Technology capabilities
- Availability of personnel for the project
- Professional liability insurance - limits of current coverage

Section 3 - Experience Record and References

Prepare a tabulation of information about three projects performed by the firm during the last ten years which best illustrates the firm's ability to perform services required for this project. Following is the minimum information required:

- Location of project and owner; provide name of an individual, address and phone number of owner representative who is personally familiar with the project
- Characteristics of the facility: comparable pipeline size and other project characteristics that reflect the Project's elements under review
- Brief description of the project and results of the review

The described experience referenced should reflect upon the Project Manager. The submittal may include an additional project to represent experience of any other firms involved in the project to highlight their skills. The projects highlighted should note the key people who participated in that project and their role.

Section 4 - Approach

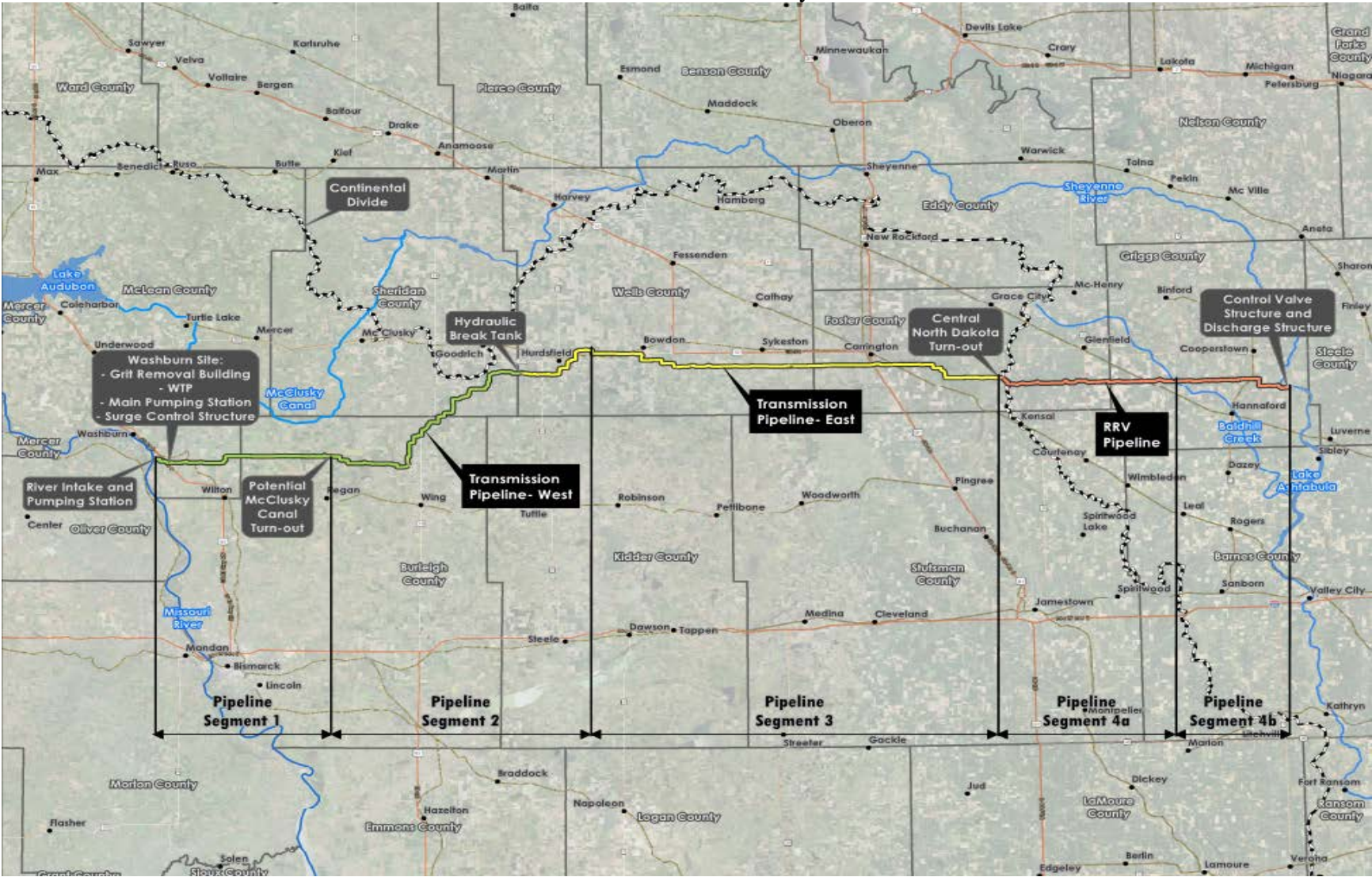
The Project is a major investment for the State of North Dakota and the local water users. Garrison Diversion is concerned with the following critical areas in regards to the Project:

- Economy, reliability and efficiency of the final recommended technology
- Life cycle cost control
- Maintenance and maintainability
- Constructability
- Restoration of the pipeline corridor
- Environmental impacts and mitigation

In this section, prepare a preliminary proposal on how the firm will evaluate the pipeline Preliminary Design. Include what key elements the firm feels are critical in the decision-making process.

Subsequent to your review of the overall scope of the Project, Garrison Diversion would be interested in any comments which may differ from or serve to strengthen the overall Project.

Red River Valley Water Supply Project Garrison Diversion Conservancy District





**Garrison Diversion Conservancy District
PO Box 140
Carrington, ND 58421**

Solicitation Addendum

Date: June 14, 2018

Request for Statement of Qualifications and Preliminary Proposal for Value Engineering Services-RRV-1

Addendum: 1

Page 6 under the heading "Instructions for Preparation of SOQ/PP" inadvertently listed the following:

- Section 5 - Estimated Cost of the Preliminary Proposal
- Section 6 – Summary

These Sections are not included as a part of the SOQ/PP.

Please sign this addendum and return with your submission.

Any questions regarding this addendum must be submitted in writing to:

Kip J. Kovar, PE
Deputy Program Manager for RRVWSP Engineering
701-652-3194 or 701-652-5736
Fax: 701-652-3195
Email: kipk@gdcd.org

By Signature below, I hereby acknowledge receipt of and compliance with the addendum to the above-referenced solicitation.

Please return this acknowledgement with your bid.

Name of Bidder or Offeror: _____

Mailing Address: _____

Printed Name: _____

Title: _____

Date: _____