

**Tri-Basin NRD
1723 N. Burlington St.
Holdrege, Nebraska 68949
RFP For Final Design - Earth Fill Dam
REVISED 12/21/11**

Introduction

Tri-Basin Natural Resources District (the district or NRD) is requesting proposals from qualified firms interested in providing final design services for an earth fill dam and reservoir to be located in portions of Sections 1 and 12, Township 6 North, Range 14 West and Sections 6 and 7, Township 6 North, Range 13 West in Kearney County, Nebraska. The purpose of the project is to provide flood control and storage of watershed runoff for groundwater recharge.

Scope

The firm selected to perform final design will be required to prepare a site plan showing all topographic and elevation details at the dam site and within the reservoir. The site plan will also include delineation of property boundaries and established legal property and section corners. Topographic contour intervals will be in accordance with Nebraska Department of Natural Resources (NDNR) requirements, and shall be sufficient for determination of earthwork and reservoir volumes to top of dam elevation. The selected firm shall also perform a reservoir operations study to optimize reservoir storage; determine dam hazard classification in accordance with NDNR requirements; perform hydrologic analyses and spillway routings appropriate for the selected hazard classification; perform breach routing to establish the downstream breach routing floodway; perform reservoir flood routing and use flood routing information to establish the top of dam elevation and spillway size and crest elevations; prepare construction drawings, earthwork tables, and detailed specifications for all earth fills, spillways, and outlet channels; prepare construction contract and bidding documents; provide a construction cost estimate; obtain NDNR approval of final design; obtain all necessary data and information and prepare forms required to enable the district to file for storage and storage use permits from NDNR; and identify any and all other permits, licenses and approvals that the district will need to obtain from state, federal, and local government agencies. The selected firm will NOT be expected to file and secure needed permits.

Dam site location and preliminary geotechnical engineering for the proposed project have been completed. The firm selected to provide final design will be required to ensure that final design is in accordance with geotechnical engineering requirements. Construction documents prepared for final design will include boring log information and other geotechnical engineering requirements. A copy of the preliminary geotechnical engineering report is available to firms interested in performing final design services on the Tri-Basin NRD website, <http://tribasinprd.org>.

All design work will be referenced to the same elevation datum and horizontal coordinate system that was used for the geotechnical and other previous work performed for the project.

Qualifications

Please provide, as a minimum, the following information regarding your firm's qualifications for performing the required final design services and evaluations: (1) Names and professional qualifications of engineers and geologists who will be assigned to perform the work for this project; (2) A list of similar projects completed by your firm; (3) Names of individuals who are familiar with your firm's work and may be contacted as references; (4) Timeline for performing the required work; and (5) Itemized budget for your firm's fee and expenses.

Proposals must be received by Tri-Basin NRD at our office at 1723 N. Burlington St., Holdrege NE 68949 in a sealed envelope no later than 5 PM Central Standard Time, February 3, 2012.

A geotechnical site study and a watershed planning study are available (listed under "Current News") on the Tri-Basin NRD website:

<http://tribasinncrd.org/>

Questions and requests for additional information should be directed to:

John Thorburn, General Manager

Tri-Basin NRD

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