

LEWIS COUNTY NOTICE TO CONSULTANTS FOR:

Request for Proposal (RFP) Annual Hydrologic, Hydraulic, and Geomorphic Services

Lewis County Department of Public Works solicits interest from consultants who wish to be evaluated and considered to provide Countywide Annual Hydrologic, Hydraulic, and Geomorphic Services. This will include but is not limited to upcoming Federal Highway Administration (FHWA) funded projects and Lewis County Transportation Improvements Program (TIP) projects. The agreement(s) will be for one (1) year in duration with an option to extend for an additional year. The agreement amount is not to exceed \$100,000. If necessary, the Agreement may be supplemented for additional time and/or money, if both parties are interested.

Project Description

Lewis County Public Works has an upcoming 2019 County Safety Program which will receive funds from FHWA. This project may require 0 rise analyses for safety improvements proposed on 07 (collector/distributor) Roads throughout the County.

In addition to the FHWA project, the projects listed on our current Transportation Improvement Program (TIP), that may require Hydrological, Hydraulic, and Geomorphic Services, will be included in this request. The current Lewis County TIP is available for review at <https://lewiscountywa.gov/departments/public-works/transportation-improvement/>

The successful consultant will provide the services listed under the General Scope of Services, and as determined appropriate by Lewis County, on upcoming projects. All projects will include cooperative project development and management with Lewis County.

General Scope of Work

The selected consultant is to provide Annual Hydrology, Hydraulic, and Geomorphology Services for upcoming public works projects. This may include but is not limited to providing hydrologic analysis, hydraulic analysis (one and two-dimensional modeling), geomorphic analysis, and/or similar work.

General Scope of Services:

- A) Hydrologic Analysis –
 - perform floodplain studies and hydrologic analysis
 - evaluate and design structures for stormwater retention, detention and/or treatment
 - provide analysis of drainage basins using various techniques and computer models to calculate streamflow
 - delineate subbasin boundaries, develop hydrologic models, and run models to simulate existing condition flows for appropriate sizing of water crossing structures.
- B) Hydraulic Analysis –
 - perform hydraulic analysis of bridges, including hydraulic conveyance floodplain impacts, foundation scour analysis, sediment transport analysis using one and two dimensional modeling -- depending on the application.
 - evaluate existing and proposed bridges and culverts
 - design bank/scour protection, and river retraining structures

- evaluate channel improvement effects/impacts of scour/bank protection and river training structures
 - perform zero rise analysis for proposed projects
- C) Geomorphic Analysis –
- perform stream investigation and analysis using principles of fluvial geomorphology
 - perform sediment transport analysis
- D) Environmental Permit Assistance–
- conduct field inspections to examine the characteristics of creeks, culverts, and surrounding floodplain with respect to hydraulic, erosion, and scour processes
 - identify reference reaches for water crossing structures and characterize sediment size, estimate channel/floodplain roughness, document lateral and longitudinal erosion, and other relevant information to aid in the assessment and design of water crossing structures
 - provide conceptual design inputs for water crossing structures, including stream alignment, typical sections, bankfull widths, profiles, streambed substrate, bank/channel stabilization elements, and other pertinent information to meet Lewis County, USACE, and WDFW design criteria
 - prepare plans, reports and maps to assist Lewis County with environmental permit applications, engineering report requirements for maintenance and/or grant funded culverts, and pre-project meeting with various regulatory agencies

Description of Anticipated Work:

Prepare Preliminary and Final Hydraulic Memos (Engineering Reports) which meet deliverables outlined in the Recreation and Conservation Service’s Manual 18 Salmon Grants, Appendix D-2 and D-3, for projects funded by the Salmon Recovery Funding Board or Manual 22, Fish Passage Barrier Removal Board (FBRB) Grant Program, Appendix C.

While there bank protection projects at this time, due to flooding issues, Lewis County often finds there is a need of the aforementioned services for emergency bank stabilization and bridge repair projects.

SUBMITTAL

Interested consultants shall provide a statement of qualifications, experience and extent of involvement for the assigned personnel on similar projects. The proposal shall include the project name, description and contact information for each project. The proposal shall be limited to ten (10) pages (sheets of paper), double sided if needed.

Submittals will be evaluated and ranked equal weight for the following criteria: 1) Qualification of key personnel; 2) Relevant experience; 3) Availability and response time; and 4) Overall proposal alignment with needs of County.

Lewis County is an equal opportunity and affirmative action employer. Disadvantaged, minority, and women-owned firms are encouraged to submit proposals.

Firms desiring consideration shall submit four copies of a complete proposal packet to Tim Fife, County Engineer at Lewis County Public Works, 2025 NE Kresky Avenue, Chehalis, WA 98532, by 1:00 PM August 16, 2019.

For more information about the project and submittal requirements contact Ann Weckback, Environmental Planner at 360-740-1440 or Ann.Weckback@lewiscountywa.gov.

The Recipient, in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000a to 2000d-4 and Title 49, Code of Federal Regulations, Department of Transportation, subtitle A, Office of the Secretary, Part 21, nondiscrimination in federally-assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it will affirmatively insure that any contract entered into pursuant to this advertisement, disadvantaged enterprises as defined at 49 CFR Part 26 will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, national origin, or sex in consideration for an award.