

A REQUEST FOR PROPOSAL FOR PROFESSIONAL SERVICES CONTRACT

Department of Highways Professional Services Procurement Bulletin 2013-06 Statewide Underwater Inspection and Scour Countermeasure Design

This document constitutes a Request for Proposals for Professional Service Contract from qualified individuals and organizations to furnish those services as described herein for the Commonwealth of Kentucky, Department of Highways.

I. PROJECT DESCRIPTION

County – Statewide

Project Description – Provide full in-depth underwater inspection services of the substructure elements of approximately 181 various statewide bridges over a five years period.

II. PROJECT INFORMATION

Project Manager – Mark Swieterman, P.E.

User Division – Bridge Maintenance

Approximate Fee – Underwater Inspection Package #1 – \$1,100,000

Underwater Inspection Package #2 – \$1,000,000

Contracting Method – Cost Plus a Fixed Fee

Project Funding – Federal Funds

III. PURPOSE AND NEED

Perform underwater structural inspections of bridges to evaluate bridge scour and determine the structural condition of bridge substructures. Provide bridge scour countermeasures. Evaluate the streambed within the limits of the bridge including stream profiles per NBIS Item 113.

IV. SCOPE OF WORK

A. UNDERWATER INSPECTION PACKAGE #1

The selected consultant will be required to perform underwater structural inspections of the bridges in accordance with current NBIS standards as specified by the Division of Maintenance. The inspection reports shall be in digital format consistent with recent reports and compatible with the Division of Maintenance's current software and documenting procedures. The inspection reporting will include posting the completed underwater inspection reports, summary notes, pertinent underwater photographs, National Bridge Inspection (NBI) coding information (60, 61, 92B, 93B and 113) and element level condition ratings into Pontis. Provide detailed scour analysis and countermeasures design based on the condition of the bridge substructure per HEC 18 and 23 on an as needed basis. In addition, documentation will include chart-recorded cross section imagery and digital photographs. The final report and engineering design shall bear an engineer's seal that is licensed in the State of Kentucky. The Kentucky Transportation Cabinet's central office and each district offices where work is performed must be notified before each cycle of scheduled underwater dives. All divers must be equipped to

meet or exceed all KYTC, State, and Federal diver safety requirements.

B. UNDERWATER INSPECTION PACKAGE #2

The selected consultant will perform underwater inspection and engineering services relative to identifying existing scour conditions at bridge substructures and developing a countermeasure plan of action. This will include:

- Perform underwater inspections in accordance with current NBIS standards
- Inspecting the current scour conditions of each structure
- Determining the extent of the bridge scour
- Provide underwater acoustic images or equivalent images of the scour condition
- Perform hydraulic analysis including scour and stream stability to determine the flow characteristics during different flood events
- Design and develop a countermeasure plan of action (POA) to correct bridge scour or stream stability issues in accordance with HEC 18 and HEC 23 (latest edition)
- Produce a Contract Ready Proposal (CRP) in the current KYTC format to implement the plan of action
- Provide other scour related services that may be defined by the KYTC

The underwater inspection reports shall be in digital format consistent with recent reports and compatible with the Division of Maintenance's current software and documenting procedures. The inspection reporting will include posting the completed underwater inspection reports, summary notes, pertinent underwater photographs, National Bridge Inspection (NBI) coding information (60, 61, 92B, 93B, and 113) and element level condition ratings into Pontis. The final report and engineering design shall bear an engineer's seal that is licensed in the State of Kentucky. The Kentucky Transportation Cabinet's central office and each district offices where work is performed must be notified before each cycle of scheduled underwater dives. Divers must be equipped to meet or exceed all KYTC, State, and Federal diver safety requirements.

V. DBE REQUIREMENT

None

VI. STRUCTURES TO BE INSPECTED

Click here for a list of Structures and locations

[State wide underwater bridge inspection Package 1](#)
[State wide underwater bridge inspection Package 2](#)

The list of structures for underwater inspection is preliminary and may be added or subtracted. The KYTC reserves the option to modify the selected consultant's agreement to include additional underwater inspections.

VII. SPECIAL INSTRUCTIONS

Two (2) consultants will be selected to provide engineering inspection services. One consultant for Underwater Inspection Package #1 and one consultant for Underwater Inspection Package #2. The contract duration for both underwater inspection packages is five (5) years with a total maximum upset funding limit of \$2,100,000.

Once the upset dollar limit is reached or the contract duration has expired, the engineering inspection services will be re-advertised and no additional work assignments will be made under these contracts. These contracts will not be modified to increase the upset limit or extended for time to assign new work. The consultant ranked first will be awarded the first choice of the two underwater inspection packages. The consultant ranked second will be awarded the remaining underwater inspection package. Consultants must be prepared to make a selection at the time of notification of ranking. The consultant billing should breakout the costs of each underwater bridge inspection and include the bridge identification number for each fiscal year.

Instructions for Response to Announcement can be found at:

<http://transportation.ky.gov/Professional-Services/Pages/Respond-to-an-Announcement.aspx>

VIII. PREQUALIFICATION REQUIREMENTS

To respond to these proposals, the consultant project team must be prequalified in the following areas by the date of this advertisement.

Bridge Maintenance Services

- Underwater Structural Inspections of Bridges

IX. PROCUREMENT SCHEDULE

Dates other than Response Date are tentative and provided for information only.

RESPONSE DATE • January 9, 2013 4:30 p.m. E.S.T. (Frankfort time)

FIRST SELECTION COMMITTEE • January 14, 2013

SECOND SELECTION COMMITTEE • January ~~29~~³⁰, 2013

CONTRACT SCOPING CONFERENCE • February 6, 2012

TENTATIVE DEADLINE FOR CONSULTANT FEE PROPOSAL • February 20, 2013

CONTRACT NEGOTIATIONS • March 6, 2013

NOTICE TO PROCEED • April 3, 2013

X. PROJECT SCHEDULE

DRAFT OF INSPECTION SERVICES • Within 45 days after inspection
(Pontis Inspection entry within 7 days after inspection)

FINAL INSPECTION REPORT • Two weeks after draft report is submitted

COMPLETION OF ALL ENGINEERING SERVICES • December 30, 2017

XI. EVALUATION FACTORS

Consultants will be evaluated by the selection committee based on the following, weighted evaluation factors:

1. In-house capacity to perform the required services. (20 Points)
2. Performance on past or similar type projects. (20 Points)
3. Demonstrate familiarity with regulatory requirements and KYTC procedures for underwater inspection of bridges (Certified Diver and KY Licensed Professional Engineer) with experience in underwater bridge inspections and scour evaluations. (20 Points)
4. Project approach to completing the assigned task. (10 Points)
5. Capacity to comply with schedules. (10 Points)
6. Computer development skills with emphasis on new and innovative technology. (10 points)
7. Consultant's offices where work is to be performed. (5 points)
 - 75% - 100% of work accomplished in Kentucky offices (5 points)
 - 26% - 74% of work accomplished in Kentucky offices (2 points)
 - 0% - 25% of work accomplished in Kentucky offices (0 points)

XII. SELECTION COMMITTEE MEMBERS

1. Mark Swieterman, P.E., User Division
2. Josh Rogers, P.E., User Division
3. Carl Van Zee, P.E., Secretary's Pool
4. Tim Pyles, P.E., Secretary's Pool
5. Brad Rister, P.E., Governor's Pool