Professional Services
Procurement Bulletin
2008-03
Statewide Geodetic Surveying Services

COUNTY	Statewide
ROUTE	N/A
DISTRICT	Statewide
ITEM NO	N/A
PROJECT DESCRIPTION	Consultant services are needed to perform Geodetic Surveying Services in support of the National Height Modernization Program under the direction of the Commonwealth of Kentucky.
PROJECT MANAGER	Perry Semones, P.E.
USER DIVISION	Highway Design
APPROXIMATE FEE	$480,000.00 Upset Limit
PROJECT FUNDING	Federal Funds
PURPOSE AND NEED	Contracts will be considered for firms that are qualified to perform one or more of the survey activities listed. Under these contracts, task orders will be developed and issued defining the exact scope of work for each project. Consultants are encouraged to respond to any part of all activities in this Request for Qualifications and should indicate which survey activities are preferred. Consultants will only be considered for a contract on the survey activities they identify in their responses. Geodetic Leveling: Perform geodetic leveling consisting of data collection, processing, and analysis following the national guidelines and specifications listed in the guidelines and specifications section. Global Positioning System (GPS) Survey: Perform Global Positioning System (GPS) surveys consisting of data collection, processing, and analyses following national guidelines and specifications listed in the guidelines and specifications section.

PURPOSE AND NEED CONTINUED	*Technical Issues: Perform outreach activities; project management; site reconnaissance; network planning; advanced survey data processing, analysis, adjustments, and submittal following national guidelines and specifications listed in the guidelines and specifications section.* *Station Department and/or Station Recovery Notes: Perform reconnaissance and develop a station description or station recovery note for each station according to guidelines listed in the guidelines and specifications section.* *Construction of Geodetic Survey Monuments: Construct geodetic survey monuments or install survey disks in structures and/or rock formations utilizing hammer drill and epoxy grout to set disk at specified locations.*
GUIDELINES AND SPECIFICATIONS	*"Standards and Specifications for Geodetic Control Networks," September 1984, Federal Geodetic Control Committee (FGCC), Reprinted 1993.* *"Geodetic Leveling", NOAA Manual NOS NGS3, NOAA, National Geodetic Survey, August 1981.* *"Interim FGCS Specifications and Procedures to Incorporate Electronic Digital/Bar-Code Leveling Systems", FGCS (Ver. 4.0 7/15/94).* *"NGS Proposal for An Addendum to Current FGCS Specifications and Procedures to Incorporate Electronic Digital/Bar-Code Leveling Systems", National Geodetic Survey, February 2001.* *"VFPROC-Vertical Control Field Data Processing System", NOAA, C & GS, National Geodetic Survey, Version 3.00, December 1992.* *"Input Formats and Specifications of the National Geodetic Survey Data Base", Volume I and II, Horizontal Control Data, Federal Geodetic Data Committee, September 1994, Revised and Reprinted November 1998.* *"NGS PROPOSAL for An Addendum to Current FGCS Specifications and Procedures to Incorporate Electronic Digital/Bar-Code Leveling Systems", National Geodetic Survey, February 2001.* *"NOAA Technical Memorandum NOS NGS-58, GUIDELINES FOR ESTABLISHING GPS DERIVED ELLIPSOIDAL HEIGHTS (STANDARDS: 2 CM AND 5 CM)", VERSION 4.3, November 1997.*

GUIDELINES AND SPECIFICATIONS CONTINUED	*"Guidelines for Establishing GPS-Derived Orthometric Heights (Standards: 2 cm and 5 cm)" Version 1.4, October, 2005.* *"NOAA Manual NOS NGS 1—Geodetic Bench Marks" National Geodetic Survey September 1978.*
DESIRED SKILLS AND REQUIREMENTS	*Project team includes a professional surveyor licensed to practice in the Commonwealth of Kentucky.* *Knowledge and ability to perform reconnaissance and provide recovery documentation of existing vertical geodetic control monumentation.* *Knowledge and ability to set new marks to National Geodetic Survey (NGS) specifications for GPS horizontal and vertical geodetic control.* *Knowledge and skill to operate Global Positioning System (GPS) surveying hardware and software for acquiring, processing, and analyzing GPS observational data.* *Knowledge and skills to operate and maintain precise digital level, invar rods, and related software for acquiring, processing, and analyzing leveling data.* *Knowledge of the hardware, firmware, and software relating to physical and space positioning techniques.* *Knowledge and skill to make sound independent decisions and to execute such decisions effectively.* *Knowledge and ability to perform advanced analysis and adjustment of horizontal and vertical geodetic survey data.* *Knowledge of the Federal Geodetic Control Subcommittee (FGCS) geodetic control survey standards and specifications.* *Knowledge and ability to perform the National Geodetic Survey "bluebook" process for horizontal and vertical geodetic control.* *Knowledge and ability to perform complex field and office activities of geodetic surveying.*

SPECIAL INSTRUCTIONS	*Please note the new guidelines for responding to project bulletins, Instructions Response to Kentucky Transportation Cabinet. PDF, should be used except for the following:* *Page 1: Basic Project Information –the following information is not required: "Certification that the firm is currently registered with the Commonwealth of Kentucky in accordance with KRS 3.22.060…Number.* *Page 2(A-B): Project Service and Staff Summary* *Use up to 2 page narrative to:* *Identify survey activities, monument recovery, Geodetic Leveling and/or GPS Survey, your firm has the ability to provide qualified staff to perform these activities.* *Define the number, type (title), credentials, qualifications, and responsibilities of personnel who would be available. Be specific as to which task they would be performing.* *Identify existing project managers and additional key staff.* *Page 5 (A-B): Available Team Workload Capacity* *Describe the capacity of your staff and their ability to perform the work in a timely manner, relative to present workload, and the availability of the assigned staff.* *Address the availability of the named key staff members, including competing commitments and the percent of time available for new projects.* *List the type and quantity of equipment, software, and supplies your firm is currently using for geodetic control work.* *Page 6 (A-H): Relative Experience of Proposed Team* *List no more than 3 Geodetic Survey and/or GPS Survey which your staff has completed in the past 7 years* *Provide client references for the 3 projects listed including firm name, firm address, firm telephone number, contact name, contact e-mail address.* *Indicate the accuracy requirements; specifications used; scope of the project; problems encountered; staffing and surveying hardware and software used; deliverables supplied to clients. List the type and quantity of equipment, software, and supplies your firm utilized.* *This Page 6 is normally limited to 5 pages. Up to 8 pages (A-H) will be allowed for providing the information requested.* *Page 7(A-C): Project Approach – not required for this response. After review of the responses the selection committee will invite respondents deemed qualified for this work to submit additional information regarding their teams approach to the project. This additional information will be used by the selection committee to determine the best qualified firm.*

PROJECT SCHEDULE & MILESTONES	
RESPONSE DATE	October 10, 2007 4:30 (Frankfort Time)
1st SELECTION COMMITTEE MEETING	October 31, 2007
FINAL SELECTION COMMITTEE MEETING	November 28, 2007
CONTRACT SCOPING CONFERENCE	December 5, 2007
NOTICE TO PROCEED	January 23, 2008
The selected consultant is expected to meet the scheduled milestone dates	

EVALUATION FACTORS

1. Relative experience of consultant personnel assigned to project team with highway projects for KTC and/or for federal, local or other state governmental agencies. (10 points)

2. Capacity to comply with project schedule. (10 points)

3. Past record of performance on project of similar type and complexity. (10 points)

4. Project approach and proposed procedures to accomplish the services for the project. (10 points).

5. Consultant's Kentucky office where work is to be performed. (2 points)

   - 75% - 100% of work accomplished in Kentucky offices – 2 point(s)
   - 26% - 74% of work accomplished in Kentucky offices – 1 point(s)
   - 0% - 25% of work accomplished in Kentucky offices - 0 point(s)

SELECTION COMMITTEE MEMBERS

1. Perry Semones, P.E., User Division
2. David Moses, P.E., User Division
3. Matt Bullock, Secretary's Pool
4. Ed McCracken, Secretary's Pool
5. Ed Dyer, Governor's Pool