COUNTY	Statewide	
ROUTE	N/A	
ITEM NUMBER	N/A	
DISTRICT	Statewide	
PROJECT DESCRIPTION	N/A	
PROJECT MANAGER	William Broyles, P.E.	
USER DIVISION	Materials	
APPROXIMATE FEE	\$750,000 upset limit	
PURPOSE AND NEED	To provide geotechnical engineering and laboratory testing services; to help expedite the completion of projects and effectively handle estimated workload, on a statewide basis. (Anticipated projects requiring limited rural roadway design and surveying services may use a pre-qualified sub consultant.)	
PROCUREMENT SCHEDULE	Response Date	Thursday, June 28, 2001, 4:30 p.m. (Frankfort time)
	Selection Committee Date	July 10, 2001
		9:00 a.m.
	Tentative Deadline for Consultant Fee Proposal	August 7, 2001
	Contract Negotiations	August 22, 2001
	Notice to Proceed	September 15, 2001
PROJECT SCHEDULE &		
PROJECT SCHEDULE MILESTONES	Completion of Services	September 15, 2002
	The selected consultant is expected to meet the scheduled milestone dates.	

EVALUATION FACTORS	 Project approach and proposed procedures to accomplish the services for the project (5 points) Relative experience of consultant personnel assigned to project team with highway projects for KYTC and/or for federal, local or other state governmental agencies (15 points) Capacity to comply with project schedule (10 points) Past record of performance by firm on projects of similar type and complexity (10 points) Consultant has Kentucky offices where work is to be performed (2 points) 100% of work accomplished in Kentucky offices – 2 points 75% - 74% of work accomplished in Kentucky offices – 1 point 9% - 25% of work accomplished in Kentucky office - 0 points
SELECTION COMMITTEE MEMBERS	 Bart Asher, P.E., User Division Darrin Beckett, P.E., User Division Jef Jasper, P.E., Secretary's Pool Jim Rummage, P.E., Secretary's Pool Bill Gatewood, P.E., Governor's Pool
DBE REQUIREMENT	None
SPECIAL INSTRUCTIONS	The Department reserves the option to modify the selected consultant's agreement to include any necessary engineering and/or related services for this project. At that time, the firm(s) will be pre-qualified by the Department in the required area(s). Four (4) firms will be selected to provide these services. The contract period is each firm receiving a one-year contract with the option of extending the period for (1) year. The firms will be placed in a pool, randomly drawn and listed in consecutive order (1 - 4). This order will determine the numerical order in which projects will be offered to firms on a rotating basis. Firm will not be offered an additional project until the remaining firms on the list have been offered a project. If a firm declines to accept a project, that firm shall not be eligible to accept another project until the remaining firms on the list are offered a project. If a firm declines a project or does not respond to an invitation to perform services for a project within 7 calendar days, documentation shall be placed in the project files and the next firm on the list shall be offered the project. If the next firm on the list declines, the project shall be offered to the next firm, etc.

The selected firms must be capable of performing a variety of geotechnical engineering and laboratory testing, a few anticipated projects may require firms capable of performing surveying and rural roadway design necessary to prepare a complete set of roadway plans for the design of landslide and rockfall corrections. A pre-qualified sub consultant may be used on these projects. Prequalification in the areas of Rural Roadway Design and Surveying and/or the name of sub consultant are not required to be identified in the consultant's Response to Announcement; these issues will be addressed during negotiations.

All selected firms must have staffs who demonstrate proficiency in the field of geotechnical engineering and laboratory testing for transportation facilities on highway projects for KTC and/or for federal, local or other state governmental agencies; experience on challenging projects and applicable continuing education are desirable. The firms must clearly demonstrate qualifications, experience, and capabilities in the areas below; they may not necessarily meet all these criteria, but the criteria do represent a benchmark.

Technical Staff Qualifications

- Three or more Professional Engineers with two or more years of experience in geotechnical engineering on highway projects for KTC and/or for federal, local or other state governmental agencies, and licensed to practice in Kentucky; one or more with a post-graduate degree in civil engineering.
- One or more Professional Geologists with two or more years of experience in engineering geology on highway projects for KTC and/or for federal, local or other state governmental agencies, and licensed to practice in Kentucky.
- One or more CADD operators proficient with Microstation, with one or more years of experience in geotechnical drafting on highway projects for KTC and/or for federal, local or other state governmental agencies.
- Laboratory staff meeting the proficiency requirements necessary for AASTHO Accreditation.

Conventional Geotechnical Engineering Experience and Capabilities

- Preparing geotechnical submittals in accordance with KTC format, including: Boring, Laboratory Testing, and Engineering Analysis Plans; Cost Estimates and Invoices for Engineering and Laboratory Testing Services.
- Preparing CADD drawings including roadway soil profile sheets, embankment and cut stability sheets, structure subsurface data sheets, geotechnical note sheets, and other related drawings in accordance with KTC format.
- Preparing and Interpreting Subsurface Logs in accordance with KTC format.
- Preparing Geotechnical Engineering Reports for roadways and structures in accordance with KTC format.

- Analyzing and/or designing embankments, soil and rock cuts, reinforced soil slopes, and landslide and rockfall corrections for transportation facilities.
- Performing geotechnical engineering analyses for deep foundations (e.g. driven piles and drilled shafts) and non-conventional retaining structures (e. g. mechanically stabilized earth, tiedback, and soil nail walls) for transportation facilities.
- Monitoring geotechnical construction of transportation facilities, including but not limited to: compaction of embankments and soil subgrades, excavation for roadway cuts and structure foundations, construction of nonconventional retaining structures, and installation of deep foundations.
- Interpreting data from geotechnical instrumentation installed in slopes, retaining walls, deep foundations and other related facilities.

Seismic Geotechnical Engineering Experience and Capabilities

 Performing seismic geotechnical engineering analyses for the design of bridges, embankments, dams, and/or other major structures, including: Simplified Seismic Site Response, Equivalent-Linear One-Dimensional Site Response, Liquefaction, Earthquake Induced Settlement, Pseudo-Static Seismic Slope Stability, and other related analyses.

Geotechnical Laboratory Qualifications and Capabilities

 AASHTO Accredited for the following AASHTO test methods: T87, T88, T89, T90, T99, T100, T193, T208, T216, T296, T297, T265; and capable of performing KM 64-501 (CBR by Kentucky Method), KM 64-513 (Slake Durability), KM-64-514 (Jar Slake), and ASTM D 2938 or KM 64-523 (Unconfined Compression Test on Rock).

Rural Roadway Design and Surveying Capabilities (Prequalified sub consultant may be used)

 Capable of performing all design and surveying required to prepare complete set of rural roadway plans in accordance with applicable AASHTO and/or KTC format, as necessary for the design of landslide and rockfall correction projects.

geotechnical **SCOPF** Services will be performed in general accordance with the KTC Geotechnical Manual and other applicable KTC documents, with exceptions, clarifications, or additions identified during negotiations. The services will include: CONVENTIONAL GEOTECHNICAL ENGINEERING ANALYSES: Slope Stability, Settlement, Deep Foundation, Wave Equation Drivability, Negative Skin Friction, Bearing Capacity, Retaining Wall. SEISMIC GEOTECHNICAL ENGINEERING ANALYSES: Simplified Seismic Site Response, Equivalent-Linear One-Dimensional Site Response, Liquefaction, Earthquake Induced Settlement, Pseudo-Static Seismic Slope Stability.

DRAFTING: Preparing Microstation CADD drawings of roadway soil profile sheets, embankment and cut stability sheets, structure subsurface data sheets, geotechnical note sheets, and other related drafting.

PRELIMINARY PLANS

MEETINGS: Preliminary, Rock Core, and Final Meetings.

REPORTS: Writing and publishing Geotechnical Engineering Reports.

LOGGING ROCK CORES

GEOTECHNICAL LABORATORY TESTING: Moisture Content, Soil Classification, Wash and Sieve Gradation; Moisture-Density, CBR and Soil Classification; Unconfined Compression on Soil; One-Dimensional Consolidation; Consolidated-Undrained Triaxial Compression with Pore Pressure Measurements; Unconsolidated-Undrained Triaxial; Slake Durability and Jar Slake; and Unconfined Compression on Rock.

RURAL ROADWAY DESIGN AND SURVEYING: Performing Rural Roadway Design and Surveying to prepare a complete set of roadway plans, as necessary for the design of landslide and rockfall corrections.

PREQUALIFICATION REQUIREMENTS