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COUNTY	Statewide	
ROUTE	N/A	
DISTRICT	Statewide	
ITEM NUMBER	N/A	
PROJECT DESCRIPTION	Consulting services are needed to perform various traffic engineering tasks involving data collection and analysis. Consultant services will also be utilized to model traffic flow using data collected and software tools such as CORSIM.	
PROJECT MANAGER	Telma Lightfoot	
USER DIVISION	Division of Traffic Operations	
APPROXIMATE FEE	>\$500,000 total to be apportioned for up to three (3) selected consultants. Each consultant will be assigned specific tasks to perform and will be paid in accordance with the prices established for the various activities. Task assignments will be based on firm's work capacity and expertise. Work is anticipated in five general categories as indicated in the Scope.	
PURPOSE AND NEED	To collect and/or analyze data that will support traffic engineering decisions concerning traffic signals, traffic signal systems, speed zones, etc. and to measure the performance of traffic operational systems.	
PROJECT SCHEDULE & PROJECT SCHEDULE MILESTONES	RESPONSE DATE	May 11, 2004 4:30 P.M. Frankfort Time
	SELECTION COMMITTEE DATE	May 25, 2004
	TENTATIVE DEADLINE FOR CONSULTANT FEE PROPOSAL	June 8, 2004

CONTRACT NEGOTIATIONS	June 22, 2004
NOTICE TO PROCEED	July 1, 2004
COMPLETION OF SERVICES	June 30, 2006

The selected consultants are expected to meet the scheduled milestone dates.

EVALUATION FACTORS

1. Relative experience of consultant personnel assigned to project team with traffic engineering projects for KYTC, 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 projects 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

		<p>– 2 points</p> <p>26% - 74% of work accomplished in Kentucky offices – 1 point</p> <p>0% - 25% of work accomplished in Kentucky office - 0 points</p>
	<p>SELECTION COMMITTEE MEMBERS</p>	<ol style="list-style-type: none"> 1. Jeff Wolfe. P.E., User Division 2. John Crossfield, P.E., User Division 3. Jeff Jasper, Secretary's Pool 4. Donald Breeding, Secretary's Pool 5. Peggy Fortney, Governor's Pool
<p>DBE REQUIREMENT</p>	<p>None</p>	
<p>SPECIAL INSTRUCTIONS</p>	<p>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).</p> <p>The Selection Committee will select up to three (3) consultant firms to perform the required services. Consultants may be assigned one task or multiple tasks. The contract period is each firm receiving a one (1) year contract with the option of extending the period for one (1)</p>	

year.

SCOPE

Select consultants must possess the expertise and capacity to be able to perform at least one of the traffic engineering tasks listed below:

Traffic Counts- In general, 12 hr, 96 hr, peak hour, and turning movement counts (may be manual counts, electronic counts, or tube counts).

Intersection Delay Studies- In general, intersection delay studies will be used to determine the total vehicle delay on a specific approach to an intersection. Intersection Delay is typically measured during the peak hour and includes the number of vehicles on the approach, the total vehicle delay (veh-hours), the maximum queue length for the approach, and the average delay per vehicle (seconds) on the approach.

Travel Time Studies- In general, the travel speed study will be for an arterial street. The study may involve multiple runs with all runs included in the study. The study should be performed by using Jamar counter boards or equipment equivalent to that used by the cabinet. The study should be submitted in either an excel spreadsheet format or Petra's PC Travel for Windows. Also including in the travel time study should be stop delays for coordinated phases at each signalized intersection in the system, coordinated phases will be identified for the consultants.

Highway Capacity Analysis- Highway Capacity 2000 Version 4.1 is to be used for all analyses. While all components of the Highway Capacity Manual may be necessary, the primary analysis tool will be the software package for signalized intersections. A signalized intersection analysis would normally include data such as: volume to capacity ratios, average control delays, level of service, and/or queue length calculations.

Survey/Drawing/Inventory- The task order will indicate the

degree of sophistication desired. In most cases, a good sketch with rough distances will be adequate. Inventories will generally consist of equipment and support infrastructure.

Speed Studies- Speed studies need to be manual and in conformance with standard practice from the Traffic Control Devices Handbook or some other reference. We would want these to be manual, not tubes or other methods. These may need to be paid by the number of locations requested and maybe by direction (we typically need speeds at multiple spots as part of the same study). We may also want to require format of reporting. We have a standard reporting sheet and excel format.

CORSIM- Data collection, design and analysis. TSIS version 5.1 should be used; *.trf files should be calibrated to the study area and provided to the Cabinet; a drawing or layout of the intersection(s) arterial and intersection turn movements should be provided to the Cabinet.

ADDITIONAL INFORMATION

Selected consultants must have the capability to collect and analyze the data as well as the capability to work with the Cabinet's Highway Information System (HIS) database and GIS database. In general, the data may be transmitted electronically in standard KYTC formats.

It is expected that frequent coordination between the consultant and the Transportation Cabinet's user division will be necessary for each specific task.

PROJECT FUNDING

State funds

PREQUALIFICATION
REQUIREMENTS

[TRAFFIC ENGINEERING](#)

- Traffic Engineering Services