PENNSYLVANIA TURNPIKE COMMISSION

RETENTION OF A FIRM

Open End Contract
Traffic Simulation Modeling Services

Reference No. 3-163
Addendum No. 1

The following revisions have been made to the above referenced solicitation:

The Commission will consider the following factors during the evaluation of the firms submitting Statements of Interest for this project:

a. Specialized experience and technical competence of prime consultant and subconsultants. The Team must clearly demonstrate experience and competence in creating and applying developed microscopic traffic simulation models of toll plazas and the connecting roadways and provide examples of such project experience.

The Statement of Interest and required information must be received by 12:00 PM (noon), Local Time, Friday, May 14, 2004. Any Statements of Interest received after this date and time will be time-stamped and returned.

All other requirements previously published shall remain unchanged.

PENNSYLVANIA TURNPIKE COMMISSION

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Open End Contract
Traffic Simulation Modeling Services

Reference No. 3-163

The Pennsylvania Turnpike Commission is seeking a firm to provide traffic simulation modeling services and computer generated visualization of traffic operations on an Open End Contract basis. The Open End Contract will be for a period of 3 years and a not to exceed amount of $500,000. Work will be assigned by work orders on an as needed basis.
This effort will support the Commission by providing detailed evaluations of the effects of existing conditions and proposed operational improvements to the toll plazas, roadways, and interchanges of the Pennsylvania Turnpike and connecting roadways. This modeling will examine a variety of issues including, but not limited to:

- Traffic operations improvements
- Safety related improvements including those intended to reduce weaving
- Implementation of Intelligent Transportation Systems
- Maintenance activities
- Reconstruction of roadways, bridges, toll plazas, and interchanges
- Lane use restrictions on roadway design sections
- Construction of new toll plazas

This simulation modeling will provide a comprehensive evaluation of the impacts of proposed improvements not only at their immediate locations but also on effected roadway sections upstream and downstream of these locations as well as on effected adjacent and connecting roadways.

Services provided under this contract include but are not limited to developing and applying traffic simulation models to visually depict:

- Assess, and identify operational deficiencies
- Develop and evaluate plans to mitigate localized congestion
- Evaluate effects of proposed roadway and toll plaza improvements, including both additional facilities (mainline lanes, toll booths, etc.) and operational changes including low and/or high speed Electronic Toll Collection (ETC)
- Identify the optimal number and placement of toll lanes to service cash, and ETC demand
- Quantify effects of changes in plaza layout on traffic safety
- Evaluate effects of various staffing proposals on traffic operations, vehicle delay, and queues
- Develop optimal strategies to address incidents, including accidents, breakdowns, etc.
- Develop plans to minimize disruption to traffic operations during construction.
- Determine effects of projected changes in traffic volume, vehicle mix, ETC market share, and toll rates on traffic operations
- Assess and evaluate traffic operations at proposed toll plazas.
- Demonstrate the effects of proposed improvements to important decision makers and the public through the use of state-of-the-art, life-like, interactive visualizations.

To support these analyses, the consultant shall:

- Customize simulation model software code to meet the requirements of the Commission
- Develop data inputs for each analysis
- Calibrate the simulation model to reflect local conditions
- Validate the model against real world data
- Run the model for each alternative
- Review results and recommend additional alternatives and/or refinements as needed
- Perform statistical analyses of simulation results
- Interpret, document, and present analysis results
- Create realistic visualizations of simulated traffic operations as needed for presentations to important decision makers and the public
The Commission will consider the following factors during the evaluation of the firms submitting Statements of Interest for this project:

a. Specialized experience and technical competence of prime consultant and subconsultants. The Team must clearly demonstrate experience and competence in creating and applying developed microscopic traffic simulation models of toll plazas and the connecting roadways and provide examples of such project experience.

b. Past record of performance with respect to cost control, work quality ability to meet schedules and previous experience on similar projects. The consultant should identify similar projects that have been completed by that firm, the magnitude of the project, and the client.

c. The specific experience and number of individuals who constitute the firm.

d. Other factors, if any, specific to the project.

Address these items and any necessary further details in a brief yet comprehensive manner in the Statement of Interest.

Direct inquiries about this advertisement to Mr. Timothy M. Scanlon, P.E., at 717-939-9551, extension 5590; or by e-mail at tscanlon@paturnpike.com. Direct contractual questions to George M. Hatalowich at (717) 986–8737; or by e-mail at ghatalow@paturnpike.com.

GENERAL REQUIREMENTS AND INFORMATION

Firms interested in providing the above work and services are invited to submit a Statement of Interest with the required information. The Statements of Interest must include the following:

1. One page transmittal letter clearly identifying the project reference number, brief description of the project from the advertisement, the firm’s federal identification number, the firm’s legal name, contact person or project manager, address of corporate office and project office. (If the firm has multiple offices, the location of the office performing the work must be identified).

2. A three (3)-page statement of interest on the advertised project. Each response should demonstrate their ability to perform the specific requirements indicated for this project and provide explanation of the technical approach.

3. An organization chart for the Project, identifying key personnel and any subconsultants and their roles. Any deviation from the subconsultant’s listed in the statement of interest will require written approval from the Commission.

4. Tabulation or listing of workload for the prime consultant and all subconsultants for all Pennsylvania Department of Transportation and Pennsylvania Turnpike Commission projects. Do not graphically represent the firm’s workload.

5. A Consultant Qualification Package similar to the one submitted to the Pennsylvania Department of Transportation for the current year or one that is best suited for this project. A copy of the Consultant Qualification Package printed directly from PaDOT’s ECMS website is acceptable.
The Consultant Qualification Package should contain at a minimum the following information for the prime consultant and all subconsultants and attached to the back of the statement of interest (subs to follow primes):

- ECMS General Information and Project Experience Forms or Standard Form (SF) 254 - Architect-Engineer and Related Services Questionnaire in its entirety, either not more than one (1) year old as of the date of the advertisement.

- Resumes of key personnel expected to be involved in the project. (Limit to two (2) 8 1/2 x 11 pages, per person). Only resumes of key personnel should be included.

- Copy of the firm’s registration to do business in the Commonwealth as provided by the Department of State for firms with out-of-state headquarters or corporations not incorporated in Pennsylvania.

- A copy of the Department’s DBE/WBE Certification, if applicable.

A firm that responds to a project as a prime may not be included as a designated subconsultant to another firm that responds to the same project advertisement. This does not preclude a firm from being set forth as a designated subconsultant to more than one prime consultant responding to the project advertisement.

Firms interested in performing the above services are invited to submit one (1) copy of a statement of interest and required information to Mr. George M. Hatalowich, Manager, Contract Administration at the PA Turnpike Commission Administration Building located at 700 South Eisenhower Boulevard, Middletown, PA 17057 (Street address). Our mailing Address is P. O. Box 67676, Harrisburg, PA 17106-7676.

The Statement of Interest and required information must be received by 12:00 PM (noon), Local Time, Friday, May 14, 2004. Any Statements of Interest received after this date and time will be time-stamped and returned.

Based on an evaluation of acceptable letters of interest received in response to these solicitations, one (1) firm will be selected for this project. The order of preference will be established for the purpose of negotiating an Open End Agreement with the highest ranked firm established by the Technical Review Committee and approved by the Selection Committee. Technical Proposals or Requests for Proposals will not be requested prior to selection.

The Commission may revise a published advertisement. If the Commission revises a published advertisement less than ten days before the Statement of Interest due date, the due date will be extended to maintain the minimum ten-day advertisement duration if the revision alters the project scope or selection criteria. Firms are responsible to monitor advertisements to assure the Statement of Interest complies with any changes in the published advertisement.

The Commission reserves the right to reject all Statements of Interest, to cancel solicitation requested under this notice, and/or to re-advertise solicitation for the work and services.

Mitchell Rubin
Chairperson