

A REQUEST FOR PROPOSAL FOR PROFESSIONAL SERVICES CONTRACT

Department of Highways
Professional Services Procurement Bulletin 2023-07
Fayette | 7-453 | US-27

This document constitutes a Request for Proposals for a 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 - Fayette
Route - US-27
Item No. - 7-453.00
Project Description - Planning study to examine various modal concepts and their effect on traffic flow and transit ridership. Limits are from Main Street (downtown Lexington) to Toronto Road

II. PROJECT INFORMATION

Project Manager - Casey Smith, P.E.
User Division - Planning
Approximate Fee - \$500,000 Planning Study (Lump Sum)
Project Funding - Federal, State, and Local funds
Project Length - Approximately 5.5 miles

III. PURPOSE AND NEED

To improve mobility using a Complete Streets approach for existing conditions and for projected redevelopment growth along the Nicholasville Road corridor from Toronto Road to Main Street.

The current corridor has very high volumes of traffic generated from commuters, shoppers, residents, and other travelers accessing the multitude of land uses in the vicinity. The city of Lexington is planning for additional population and land development growth using modifications to the Comprehensive Plan and accompanied zoning regulations. These plans may change some trip behavior, trip length, and corridor traffic volume.

IV. DBE GOAL

The Consultant team shall include a DBE Participation Plan with their Response to Announcement to help the Department meet the 11.95% DBE goal established by FHWA. The plan should demonstrate how DBE companies will be mentored or used to assist in the area(s) pertaining to this contract. An additional page will be allowed in the Project Approach (Section 7)

to exhibit this plan. A maximum of four (4) points will be considered in the Evaluation Factors for the DBE Participation Plan.

V. SCOPE OF WORK

1. **Travel Demand:** Using the MPO travel demand model, the selected consultant will conduct baseline analysis of the corridor (including the existing plus committed transportation improvements) to determine volumes of vehicles and non-motorized users under different land-use densification scenarios.
 - a. No changes to land use pattern
 - b. Partial build out
 - c. Full build-out
2. **Transit Ridership:** Estimate ridership using the FTA STOPS model under the following scenarios:
 - a. Minor improvements to level of transit service including extension of service to Brannon Road in Jessamine County
 - b. Moderately improve transit service (reduce headways, improved stop amenities, etc.) including extension of service to Brannon Road in Jessamine County
 - c. Full buildout of BRT service
3. **Conceptual level design & alternatives analysis:**
 - a. Develop corridor alternatives based on the findings in the reports listed under Available Studies. Alternatives will consider various transit ridership scenarios as well as design features:
 - i. Median type (traversable, non-traversable)
 - ii. Access management
 - iii. Innovative intersections (including but not limited to R-Cuts, Bowties, Displaced Lefts, Diverging Diamond, and Quadrant)
 - iv. Innovative Interchange types (@New Circle Road) minimizing ROW
 - v. Transit recommendations (see referenced studies)
 - vi. Pedestrian & bicycle accommodations
 - vii. Roadway cross-section development for each segment identified in the INR
 - b. Traffic and Microsimulation Modeling
 - i. Determine travel demand and impacts to mobility for each conceptual alternative using the travel demand model and microsimulation.
 - ii. Determine if impacts have an effect to adjoining arterial routes.
 - c. Cost estimating
 - i. Develop cost estimate for each alternative.
4. **Alternatives comparison**
 - a. Develop mobility and other performance measurement criteria and apply to each conceptual alternative.
 - b. Develop a logical listing of project packages for a 5-year, 10-year, and long-term timeframe. Each package will include a list of individual projects that may contain roadway segments, intersections, transit infrastructure, and non-motorized improvements. Implementation of project listings may need to be flexible based on the level of land use build out that actually happens.
 - c. Each package includes a qualitative benefit-to-cost evaluation.
 - d. Public and stakeholder input from different alternatives and performance measures.

This project may be advanced to future phases upon the completion the initial study with a Contract Modification.

VI. SPECIAL INSTRUCTIONS

The Department may retain any of the advertised services to be performed by in-house state forces.

Instructions for Response to Announcement can be found at:

<https://transportation.ky.gov/ProfessionalServices/Pages/Respond-to-an-Announcement.aspx>

VII. AVAILABLE STUDIES

[Imagine Nicholasville Road Planning Study](#)

The city of Lexington completed a land use and transportation visioning plan entitled Imagine Nicholasville Road. This study included recommendations for both land-use changes that would spur new types of development to infill parking lots and replace current development over time. Preliminary concepts were also made to improve transportation mobility in the corridor, including the potential for a Bus Rapid Transit (BRT) system. Road improvements included lane modifications, access management, and intersection reconfiguration.

Imagine Lexington

[Lexington Area Congestion Management Bottleneck Study](#)

In addition, the Lexington MPO completed a bottleneck study that makes specific recommendations to corridors and intersections that will help relieve traffic congestion. There are several project recommendations along the Nicholasville Road corridor.

[LexTran Comprehensive Operational Analysis Study](#)

LexTran is completing a study that examined the current operations of each route and through user feedback and ridership analysis created recommended modifications to their routes.

VIII. METHOD OF DESIGN

The selected Consultant shall utilize the most recent CADD Standards for Highway Plans Policy in the development of the highway plans. Refer to the 2019 CADD Standards for ORD V4 Project Development Memo for information pertaining to the latest CADD Standards and plan submittal.

IX. ENVIRONMENTAL SERVICES

Any necessary Environmental Services will be provided by the Consultant. At a minimum, an Environmental Overview Report with a red flag summary is expected to be included in the final report.

X. PHOTOGRAMMETRIC SERVICES

The Consultant will provide mapping and will furnish manuscripts in ORD format. Statewide Elevation data and Aerial photography can be found at the following link [KyFromAbove - Kentucky's Aerial Photography & Elevation Data Program](#). The selected Consultant shall

supplement this information with conventional surveying as determined during project scoping.

XI. STRUCTURE DESIGN

The selected Consultant may provide the necessary engineering services to determine needed improvements of the structures involved, if any. When the project advances to Final Design and if the selected Consultant is retained for Final Design services, the selected Consultant shall do the necessary engineering services to submit to the KYTC an Advanced Situation Folder(s) for the appropriate structure(s). Structure Design of the proposed structure(s) may be added as a Contract Modification. Prequalification in the area of Structure Design is not required to be identified in the Consultant's Response to Announcement.

XII. GEOTECHNICAL SERVICES

The selected Consultant may provide all Geotechnical Services required for the project. A geotechnical overview is expected to be included in the final report. Geotechnical services necessary for the completion of Preliminary Engineering or Final Design may be added by contract modification at the appropriate time. At any time, if the Department has the capacity to provide these services, the Department may retain the advertised geotechnical services. Prequalification in the area of Geotechnical Services is not required to be identified in the Consultant's Response to Announcement.

XIII. TRAFFIC ENGINEERING

The selected Consultant will provide the analysis of the existing and proposed operations. At any time, if the Department has the capacity to provide these services, the Department may retain the advertised traffic services.

XIV. UTILITIES

The selected Consultant will identify existing significant utility facilities that may be impacted. The extent to which any existing significant utility facilities may be impacted by any proposed project and any significant adverse effects on the project budget or schedule of any such impacts should be documented.

XV. PREQUALIFICATION REQUIREMENTS

To respond to this project the Consultant must be prequalified in the following areas by the response due date of this advertisement:

ENVIRONMENTAL & UST SERVICES

- UST & Hazmat Preliminary Site Assessment (Phase 1)

ENVIRONMENTAL ARCHEOLOGY & OTHER SERVICES

- Socio-Economic Analysis
- Cultural-Historic Analysis
- *Historic Archaeology* (see note below)*
- *Environmental Document Writing & Coordination* (see note below)*

- *Stream & Wetland Mitigation* (see note below)*

INTELLIGENT TRANSPORTATION SYSTEMS

- System Design, Deployment & Integration

ROADWAY DESIGN

- Advanced Traffic Engineering Design & Modeling
- Urban Roadway Design
- *Surveying* (see note below)*
- *Advanced Drainage Analysis & Design* (see note below)*
- *Photogrammetry & Related Services* (see note below)*

TRAFFIC ENGINEERING

- Traffic Engineering

TRANSPORTATION DELIVERY SYSTEMS

- Transit Technical Studies

TRANSPORTATION PLANNING

- Traffic Forecasting
- Traffic Data Collection
- Advanced Transportation Planning Engineering
- Pedestrian & Bicycle Planning & Design
- Transportation Planning Engineering
- Travel Demand & Simulation Modeling
- Conceptual Transportation Planning

Structure Design* (see note below)

- *Spans Under 500 Feet**

** Note – These prequalifications are not required with the initial proposal as it is uncertain to the extent practicable if they are necessary. Should these services become necessary during the delivery of the project in this or future phases, the selected Consultant team must obtain the required qualifications before providing those services or bring on a prequalified subconsultant at that time.*

XVI. INTERVIEW

The selection committee will identify a shortlist of proposers who submit a responsive proposal to participate in an oral interview. All responding firms should be prepared to present a short presentation and respond to questions. Each Proposer will be allowed no more than 30 minutes for a presentation followed by a question-and-answer session, which should take no longer than 30 minutes. At the conclusion of the question-and-answer session each firm will be permitted a one-minute summary.

The presentation shall not be used to fill in missing or incomplete information in the written proposal. KYTC will ask the Proposers specific questions relative to their proposal. Follow-up questions from KYTC will be permitted. The oral interview will not be scored separately. The interview is used solely for KYTC to see clarification of the Proposer's proposal. Proposers will not be permitted to ask questions of KYTC.

Each firm shall be required to bring the Consultant's Project Manager and may bring up to four other individuals to the interview. Each firm may also submit a one-page 11" x 17" PDF summary sheet for the Selection Committee's reference during the interview or final selection meeting.

Members of the KYTC's Selection Committee will attend each oral interview. Additional subject matter experts and Lexington-Fayette Urban County Government staff may also attend the interviews. Elected officials will not be permitted to attend. KYTC will terminate the interview promptly at the end of the allocated time.

KYTC may videotape to document the oral interviews. These recordings are not intended for public use except for the selected Consultant team, which shall be shared with the Department's project team. All other interviews will be returned to the responding firms but not dispersed by the Department. All interviews are anticipated to be held via videoconference using Microsoft Teams.

Persons with a disability may request a reasonable accommodation such as a sign language interpreter. Request for accommodations must be made one week in advance of the meeting, to allow time to arrange the accommodation.

XVII. PROCUREMENT SCHEDULE

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

- Advertisement Date: January 10, 2023
- Response Date: February 1, 2023 by 4:30 PM ET (Frankfort Time)
- First Selection Meeting: February 6, 2023
- Shortlist Meeting: February 22, 2023
- Interviews: March 6, 2023
- Final Selection: March 6, 2023
- Pre-Design Conference: March 13, 2023
- Consultant Fee Proposal: March 22, 2023
- Contract Negotiations: March 31, 2023
- Notice to Proceed: April 21, 2023

XVIII. PROJECT SCHEDULE

- Final Report October 31, 2024

XIX. EVALUATION FACTORS

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

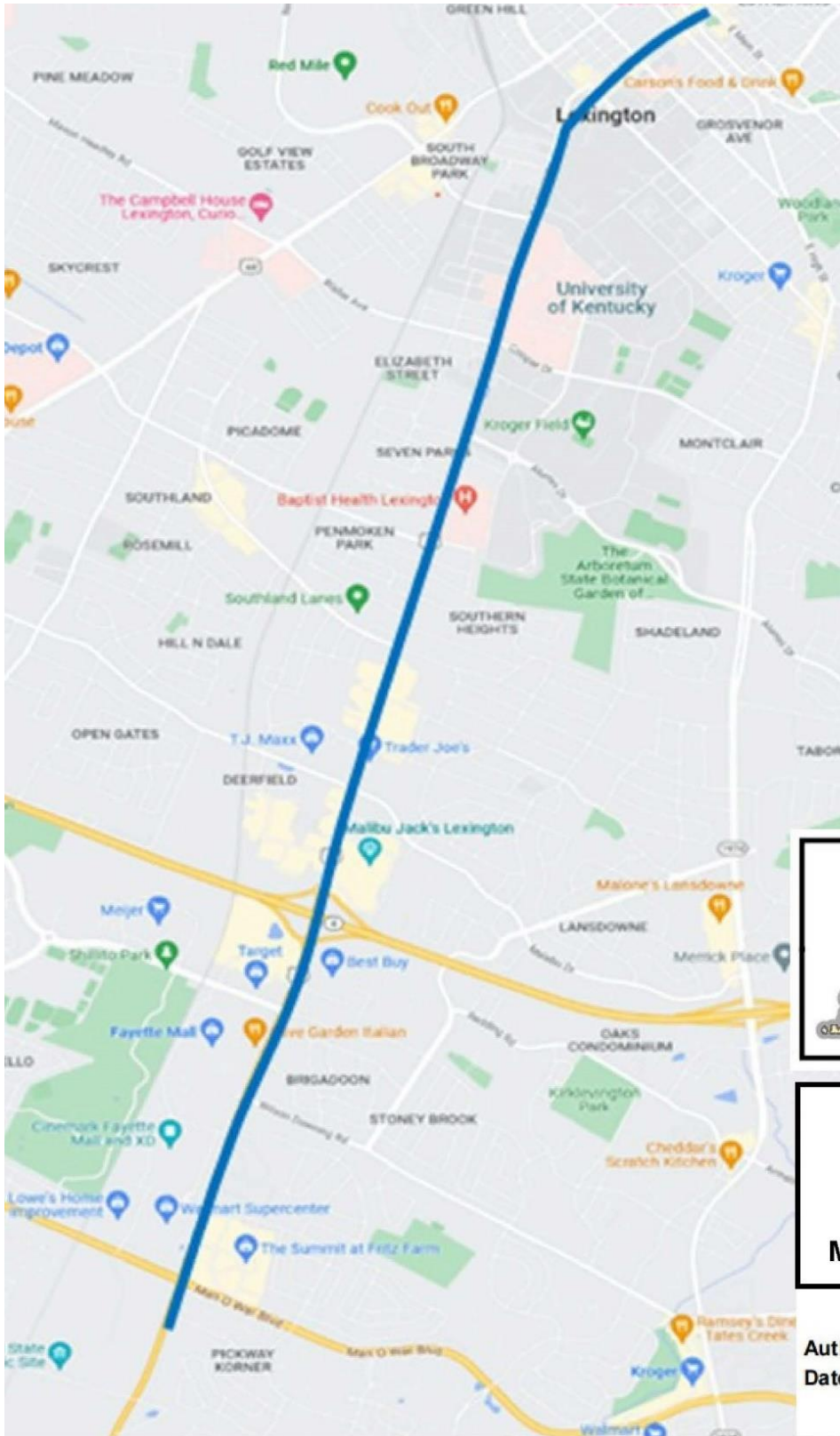
1. Relative experience in transit planning, traffic analysis, traffic engineering design and bike/ped design. (20 Points)
2. Project approach and proposed procedures to accomplish the services for the project. (15 Points)
3. Travel demand and microsimulation approach (15 pts)

4. Past record of performance on projects similar in type and complexity. (15 Points)
5. Capacity to comply with project schedule. (5 Points)
6. DBE Participation Plan. (4 Points)
7. Knowledge of the locality and familiarity of the general geographic area. (2 Points)

XX. SELECTION COMMITTEE MEMBERS

1. Casey Smith, P.E., User Division
2. Brent Sweger, P.E., User Division
3. Stephen De Witte, P.E., Secretary's Pool
4. Joseph Van Zee, P.E., Secretary's Pool
5. R. Bruce Scott, P.E., Governor's Pool

XXI. AREA MAP



**US 27
Fayette County
Item No. 7-453
Planning Study from
Main Street to Toronto Road**

**Author: Professional Services
Date: 1/3/2023**

