

A REQUEST FOR PROPOSAL FOR PROFESSIONAL SERVICES CONTRACT

Department of Highways
Professional Services Procurement Bulletin 2025-04
Campbell | 6-23 | I-471

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 - Campbell
Route - I-471
Item No. - 6-23.00
Project Description - Improve Safety and Reduce Congestion at the I-275/I-471 Interchange

II. PROJECT INFORMATION

Project Manager - Dane Blackburn, P.E.
Central Office Liaison - Catherine Davis, P.E.
User Division - Planning
Approximate Fee - \$350,000 Scoping Study (Lump Sum)
Project Funding - NHPP (Federal Funds)
Project Length - Approximately 0.727 miles

III. PURPOSE AND NEED

The system interchange of I-471 at I-275 serves two of northern Kentucky's major transportation spines, accounting for upwards of 75,000 vehicles per day. The interchange largely functions as a commuter route to Cincinnati for residents in northern Kentucky and eastern Cincinnati. It also serves as an alternate route to the Brent Spence Bridge on I-71/75 and is critical to maintaining traffic operations as the Brent Spence Bridge project progresses. The use of left-hand exits and entrances within this interchange are inconsistent with driver expectations and do not provide sufficient merging and weaving distances, often leading to crashes and/or traffic slowdowns. Additionally, the proximity to the I-275 interchange with Three Mile Road to the west on I-275 does not meet FHWA interchange spacing standards. With the goals of improving safety, reducing congestion, and increasing reliability, the Cabinet is initiating this study to determine **short-term, readily-implementable** solutions to help alleviate these issues. Improvements with longer implementation timeliness need not be explored until the conclusion of the Brent Spence Bridge project; this is an update from the Pre-Advertisement Meeting that was held on September 24, 2024.

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

Items to be completed may include but not be limited to:

- Gather and analyze crash data utilizing methodologies outlined in the Highway Safety Manual, KTC research, and KYTC's Data Driven Safety Analysis Implementation Plan
- Collect, summarize, and verify existing roadway data, with special attention to:
 - Existing and potential future Transportation Systems Management & Operations (TSMO) strategies
 - Pavement Conditions
 - Geometric Constraints
- Identify short-term, readily-implementable improvements to the interchange and prioritize improvements using methodology consistent with the SHIFT and OKI prioritization processes, including Benefit-Cost Analysis.
- Develop actionable cost estimates, a potential timeline, and identify potential sources of risk.
- Submit a summary of findings in a Final Report.

None, some, or all identified concepts may be advanced by the Department to future phases including Preliminary Engineering and Environmental Analysis upon completion of the Planning phase and may be advanced to Final Design thereafter. If the project is advanced and if the selected Consultant is retained for any of these services they may be asked to provide engineering services, including the preparation of any design studies, drainage design, right-of-way plans, construction plans, traffic control plans, and cost estimates as well as any other services that KYTC chooses not to perform with in-house forces.

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

[NKY ATDM Feasibility Study](#)

[I-471 Corridor Plan Report](#)

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

An environmental overview will be completed with the planning study and expected to be provided by the Consultant. Any additional Environmental Services may be advanced by Contract Modification. Prequalification of various Environmental Services are required to be identified in the Consultant's Response to Announcement.

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

Structure Design is not anticipated for the Planning Study. When the project advances to Preliminary and/or Final Design and if the selected Consultant is retained for Preliminary and/or 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). The selected Consultant may be responsible for any necessary Structure Design services. 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 Department will complete the Geotechnical Overview. The Preliminary Design contract may include preliminary geotechnical services to review available geological, mining, or other geotechnical information that could influence the selection of the preferred alternate. Geotechnical services necessary for the completion of 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 Consultant will provide all traffic projections and related information.

The selected Consultant will provide the analysis of the existing and proposed operations. Traffic Signal Design and Lighting Design services, if necessary for the completion of 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 traffic services.

XIV. UTILITIES

The Department is responsible for providing available information on existing utility facility locations to support the determination of conflicts of the project design with the existing utility facilities. The Department shall cooperatively support the identification of these conflicts. The Consultant shall consider the practical feasibility of utility conflict avoidance, making the necessary adjustments when directed by the Department. Those conflicts determined as unavoidable shall be addressed by the entity charged with utility coordination, be it the Department or Consultant.

All utilities including underground and overhead facilities within the project scope shall be field-verified by the Consultant. Sizes and types of underground and aerial utilities shall be identified on the plans for each alignment alternative in the PL&G submittal. In addition to survey horizontal location of visible utility features, the Consultant shall provide elevation of accessible manhole tie inverts and overhead low wire elevation.

The selected Consultant may be required to provide utility related services for this project, which may include utility coordination, construction inspection, or specific facility type utility design. These services have specific prequalification standards, required of the selected Consultant or subconsultant.

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:

ROADWAY DESIGN

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

TRANSPORTATION PLANNING

- Traffic Forecasting
- Traffic Data Collection
- Advanced Transportation Planning Engineering
- Transportation Planning Engineering
- Travel Demand & Simulation Modeling
- Conceptual Transportation Planning
- *Road Centerline Data Collection** (see note below)

Environmental & UST Services* (see note below)

- *UST & Hazmat Preliminary Site Assessment (Phase 1)**

Environmental Aquatic & Terrestrial Ecosystems Analysis* (see note below)

- *Fisheries**

- Botany*
- Terrestrial Zoology*
- Wetlands*
- Freshwater Macroinvertebrates*
- Water Quality*

Environmental Archaeology & Other Services* (see note below)

- Air Quality Analysis*
- Prehistoric Archaeology*
- Socio-Economic Analysis*
- Highway Noise Analysis
- Historic Archaeology*
- Environmental Document Writing & Coordination*
- Cultural-Historic Analysis*
- Stream & Wetland Mitigation*

Geotechnical Services* (see note below)

- Geotechnical Engineering*
- Geotechnical Drilling*
- Geotechnical Laboratory Testing*

Intelligent Transportation Systems* (see note below)

- System Design, Deployment & Integration*
- System Maintenance, Management & Operations*
- Technology / System Evaluation*
- Architecture Development*

Structure Design* (see note below)

- Standard Structures*
- Spans Under 500 Feet*

Traffic Engineering* (see note below)

- Electrical Engineering Roadway Lighting*
- Traffic Engineering*
- Traffic Signals*

* 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. PROCUREMENT SCHEDULE

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

- Advertisement Date: October 8, 2024
- Response Date: October 30, 2024 by 4:30 PM ET (Frankfort Time)
- First Selection Meeting: November 4, 2024
- Final Selection: November 20, 2024
- Pre-Design Conference: November 25, 2024

- Consultant Fee Proposal: December 6, 2024
- Contract Negotiations: December 18, 2024
- Notice to Proceed: January 8, 2025

XVII. PROJECT SCHEDULE

- First Project Team Meeting April 2025
- Second Project Team Meeting June 2025
- Local Officials/Stakeholder Meeting August 2025
- Final Project Team Meeting September 2025
- Draft Report October 2025
- Final Report December 2025

XVIII. EVALUATION FACTORS

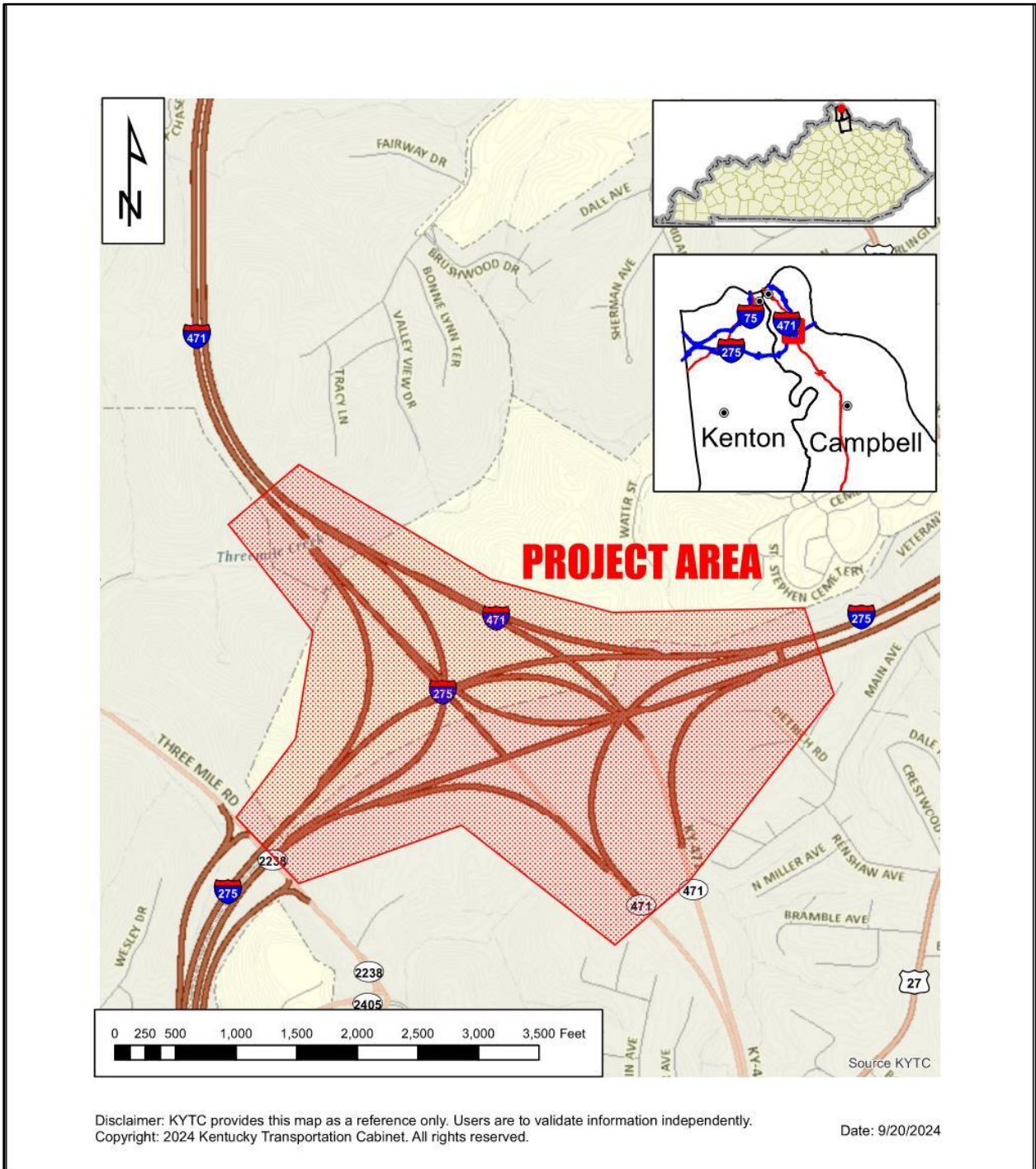
Consultants will be evaluated by the selection committee based on the following weighted factors:

1. Project approach and proposed procedures to accomplish the services for the project. (20 Points)
2. Relative experience of consultant personnel assigned to project team with highway project for KYTC and/or federal, local or other state governmental agencies. (15 Points)
3. Past record of performance on projects similar in type and complexity. (15 Points)
4. Capacity to comply with project schedule. (10 Points)
5. DBE Participation Plan. (4 Points)
6. Knowledge of the locality and familiarity of the general geographic area. (2 Points)

XIX. SELECTION COMMITTEE MEMBERS

1. Dane Blackburn, P.E., User Division
2. Catherine Davis, P.E., User Division
3. Casey Smith, P.E., Secretary's Pool
4. Amanda Desmond, P.E., Secretary's Pool
5. Brian Wood, P.E., Governor's Pool

XX. AREA MAP



PS Professional Services

TEAM KENTUCKY
TRANSPORTATION CABINET

Campbell County
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