

A REQUEST FOR PROPOSAL FOR PROFESSIONAL SERVICES CONTRACT

Department of Highways Professional Services Procurement Bulletin 2024-11 Pulaski | 8-59.50 & 8-59.60 | LN-9008

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 - Pulaski
Route - LN-9008
Item Nos. - 8-59.50 & 8-59.60
Project Description - Somerset Northern Bypass (LN-9008) Sections 3 & 4; from west of the bridge over US-27 and the Norfolk Southern Railroad, east to the KY-461/KY-80 Interchange (includes the KY-39 interchange)

II. PROJECT INFORMATION

Project Manager - Joseph Gossage, P.E.
User Division - Highway Design
Approximate Fee - \$4,500,000 Final Design (Lump Sum)
8-59.50 - \$2,000,000 | 8-59.60 - \$2,500,000
Project Funding - KYD (Federal Funds)
Project Length - Approximately 8.0 miles

III. PURPOSE AND NEED

The purpose of this project is to complete the Somerset Northern Bypass to enhance regional mobility and provide a safer, free flowing connection between I-65 and the Cumberland Parkway to the west to the new KY-80/Hal Rogers Parkway/KY-461 Interchange and I-75 to the east.

KY-80 provides the primary east-west arterial connection from Somerset in Pulaski County to London in Laurel County, linking the Cumberland Parkway in the west to I-75 and the Hal Rogers parkway in the east. The route carries between 8,000 and 19,000 vehicles per day, including as many as 2,300 trucks daily. KY-461 provides a vital north-south arterial connection linking KY-80 near Shopville in Pulaski County to I-75 near Mount Vernon in Rockcastle County. KY-461 carries approximately 11,000 vehicles per day including 2,000 trucks. The Valley Oak Industrial Complex is located along KY-461 and generates approximately 3,000 jobs for the region. These traffic concerns demonstrate the extreme pressure this regional roadway system is under due to the heavy traffic demand generated by intense local economic growth combined with high volumes of through traffic.

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 would demonstrate how DBE companies will be mentored or used to assist in the area(s) pertaining to this contract. If included, 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

The selected Consultant will be required to provide engineering services to perform Final Roadway Design as well as any other services that KYTC chooses not to perform with in-house forces.

Item 8-59.5 (Section 3): Survey area for updates/changes, review/update existing 80% roadway plans to current CADD standards with ORD, hold joint inspection meeting, submit advance folders, complete structure design for all structures, prepare preliminary/final drainage submittals, prepare final grade, drain, and surfacing plans including traffic engineering plans, and cost estimates. Provide the KYTC with any engineering plans and documents necessary to complete environmental permitting, utility coordination, railroad coordination, geometric reviews, etc.

Item 8-59.6 (Section 4): Survey area for updates/changes, develop roadway plans to current CADD standards with ORD, hold joint inspection meeting, develop final right of way plans, submit advance folders, complete structure design for all structures, prepare preliminary/final drainage submittals, prepare final grade, drain, and surfacing plans including traffic engineering plans, and cost estimates. Provide the KYTC with any engineering plans and documents necessary to complete environmental permitting, utility coordination, geometric reviews, etc.

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

[Plan Set – Pulaski | 8-59.25 | SNB KY-80 & KY-461 Interchange-Built 2022](#)

[Plan Set – Pulaski | 8-59.40 | SNB Section 2-Built 2004](#)

[Plan Set – Pulaski | 8-59.50 | SNB Section 3-80% Final Plans](#)

[Plan Set – Pulaski | 8-59.60 | SNB Section 4-RW Plans-Now Partially Realigned](#)

[KMZ Files](#)

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

The Department is expected to provide any necessary Environmental Services required for the project.

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 anticipated for Final Design. The selected Consultant shall do the necessary engineering service to submit to the KYTC an Advanced Situation Folder(s) for the appropriate structure(s) and perform Structure Design of the proposed structure(s). The selected Consultant may be responsible for any necessary Structure Design services including panel sign trusses. Prequalification in the area of Structure Design is required to be identified in the Consultant's Response to Announcement.

XII. GEOTECHNICAL SERVICES

The Department is expected to provide all Geotechnical Services required for the project. At any time, if the Department does not have the capacity to provide these services, they may be added by contract modification. Prequalification in the area of Geotechnical Services is not required to be identified in the Consultant's Response to Announcement.

XIII. TRAFFIC ENGINEERING

The Department will provide all traffic projections and related information.

The selected Consultant will provide the safety and capacity analysis of the existing and proposed operations for the mainline corridor and impacted intersections/interchanges. The safety and capacity analysis shall be performed by a consultant prequalified in Traffic Engineering Services. The selected Consultant will provide panel and sheeting sign plans. These panel and sheeting sign plans shall incorporate existing signs located at the US-27 interchange and the KY-461/KY-80 interchange. The selected Consultant will provide striping plans. Sign and striping plans shall be developed based upon the latest adopted version of the Manual on Uniform Traffic Control Devices (MUTCD) and incorporate any changes needed at the two existing interchanges necessitated by the new MUTCD. The selected Consultant will provide roadway lighting installation plans. These roadway lighting plans shall incorporate existing facilities located at the

US-27 interchange and the KY-461/KY-80 interchange. All lighting installations shall be designed, signed, and stamped by a consultant prequalified by the Cabinet in Electrical Engineering Roadway Lighting Services.

Traffic Signal Design, if necessary for the completion of Final Design, may be added by Contract Modification at the appropriate time. All traffic signal plans shall be developed, signed, and stamped by an engineering consultant prequalified by the Cabinet in Electrical Engineering Traffic Signal Services. 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.

The selected Consultant shall provide a project location map to the Department. The Department will send project location maps to all potential utility contacts to determine whether they may have existing utilities within these project limits. The Department will develop the utility contact list. Facility atlas maps received for this project will be provided to the selected 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 will provide SUE (Subsurface Utility Engineering) work as needed to field-locate utilities. Horizontal and vertical location of existing utilities shown in the roadway plans shall be adjusted by the Consultant as necessary to reflect actual SUE results. This service has a specific prequalification standard, required of the selected consultant or subconsultant.

The Department will submit a design information request ticket from KY811 during final design. The design information request will provide the selected consultant access to utility company supplied facility location data, sourced from KY811 member utility companies. There is no law requiring those utility companies to respond to a design information request with field location of the utilities within the project scope. If field locations are provided, the consultant shall perform field surveys to collect the utility company supplied field data. Horizontal location of existing utilities shall be depicted on final plans, in compliance with Department depiction standards with level of accuracy denoted, and adjusted as necessary to reflect actual field location. It is unlawful to request a normal excavation request ticket if no excavation is transpiring. If additional utility investigation is necessary, the consultant is advised to seek Department consult. Subsurface Utility Engineering (SUE) services may be available via project contract or statewide contract.

The selected Consultant shall acquire adequate information regarding existing utility features to identify existing utility facilities within the project area, document and confirm those that may be

negatively impacted by the project. The selected Consultant shall bring attention any potential conflicts with existing utility facilities that may result in significant cost or time to relocate. The selected Consultant complete or contribute to a utility conflict matrix, documenting the existing utility facilities that may be impacted by the project. The Consultant shall document or confirm the following for each utility in the conflict matrix: type of utility, owner of utility, quantify the extent they may be impacted, potential impacts to project budget, potential impact to project schedule, confidence of utility location depicted, and recommendations for remedy.

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
- Surveying
- Advanced Drainage Analysis & Design
- Photogrammetry & Related Services
- Urban Roadway Design

STRUCTURE DESIGN

- Standard Structures
- Spans Under 500 Feet

TRAFFIC ENGINEERING

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

Geotechnical Services* (see note below)

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

Utility Design* (see note below)

- *Subsurface Utility Engineering**
- *Communication**
- *Electrical Level 1**
- *Electrical Level 2**
- *Gas Level 1**
- *Gas Level 2**
- *Water & Sewer Level 1**
- *Water & Sewer Level 2**
- *Utility Construction Inspection**
- *Utility Preconstruction Coordination**

* 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: May 14, 2024
- Response Date: June 5, 2024 by 4:30 PM ET (Frankfort Time)
- First Selection Meeting: June 10, 2024
- Final Selection: June 26, 2024
- Pre-Design Conference: July 3, 2024
- Consultant Fee Proposal: July 12, 2024
- Contract Negotiations: July 24, 2024
- Notice to Proceed: August 14, 2024

XVII. PROJECT SCHEDULE

- Joint Inspection: Sections 3 & 4 September 2025
- Right of Way Plans: Section 4 April 2026
- Final Plans: Section 3 October 2026
- Final Plans: Section 4 April 2027

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. Joseph Gossage, P.E., User Division
2. Randy Turner, P.E., User Division
3. Crystal Mapel, P.E., Secretary's Pool
4. Matthew Sipes, P.E., Secretary's Pool
5. Brian Wood, P.E., Governor's Pool

