



Roadside Barrier Study

Consultant Webinar

Microsoft Teams | April 25, 2025



Vision

Striving to be national leaders in transportation who provide transportation infrastructure and services for the 21st century that deliver new economic opportunities for all Kentuckians.

Mission

To provide a safe, efficient, environmentally sound and fiscally responsible transportation system that delivers economic opportunity and enhances the quality of life in Kentucky.

Agenda

- Introductions
- Study Goals
- Potential Scope of Services
- Prequalification Requirements
- Procurement Timeline
- Questions

Reminder: Start Recording





Introductions

Study Objective

The Department does not maintain a centralized and consistent repository for its roadside barrier assets.

Due to the large numbers of assets and attributes, it is not practical nor prudent for state forces to manually retrieve asset information from the field; rather, the use of LiDAR and imagery to identify asset location and attributes while minimizing time and exposure of personnel in the field. This will facilitate the upkeep of these assets in a state of good repair.

The objective of this effort is for a Consultant to manage the delivery of a statewide asset inventory of roadside barriers and a regional pilot data set for condition assessment and inventory update procedure.

Scope of Services (subject to change)

- Develop attribute data set, procedures, and recommendations for a roadside barrier inventory process. A roadside barrier is defined as any structure placed along the edge of roadway to prevent vehicle roadside departure or strike of roadside hazards.
- Facilitate inventory of roadside barrier structures on state highways through use of KYTC imagery and LiDAR datasets. The Consultant will extract imagery files and work with subject matter expert vendors as needed. These data will be limited to the Interstate, Parkway, State Primary, State Secondary, and Supplemental road systems.

Scope of Services (subject to change)

- Perform pilot condition and functional assessments of roadside barrier structures. Define visual condition indicators (rust, misalignment, impact damage) and functional assessment criteria (barrier continuity, terminal integrity). Condition and functional criteria will be developed in coordination with the Department.
- Customize a mobile application with Trimble for condition assessment and inventory updates for the roadside barrier inventory.
- Maintain dataset and documentation in compliance with requirements of the Department's existing geospatial and asset management platforms.

Scope of Services (subject to change)

- Develop a QA/QC plan for the quality control and validation of the collected data.
- Include risk management and contingency strategies for data gaps, technical issues, or unexpected field conditions.

Vendor Agnostic

- Prospective consultants should not engage in exclusive teaming agreements with vendors and instead provide a response that is vendor agnostic.
- The process and vendor for acquiring the inventory data will be determined during scoping.

Prequalification Requirements

- Team must be prequalified in:
 - Conceptual Transportation Planning
 - Road Centerline Data Collection
 - Photogrammetry & Related Services

Procurement Timeline

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

- Advertisement Date: June 10, 2025
- Response Date: July 2, 2025 by 4:30 PM ET (Frankfort Time)
- First Selection Meeting: July 7, 2025
- Final Selection: July 23, 2025
- Pre-Design Conference: July 30, 2025
- Consultant Fee Proposal: August 8, 2025
- Contract Negotiations: August 20, 2025
- Notice to Proceed: September 10, 2025





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Questions?

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