

PROJECT INFORMATION

COUNTY(S) Kentucky (Bell, Knox, Laurel), Tennessee (Claiborne, Grainger, Hamblen) Virginia (Lee)

ROUTE US 25 E Corridor

ITEM NUMBER 99-289.01

DISTRICT 11 (Manchester)

PROJECT DESCRIPTION Develop an integrated, regional Intelligent Transportation Systems (ITS) deployment plan and provide systems integration and infrastructure for the Cumberland Gap Tunnel and the surrounding areas of southeastern Kentucky, northeastern Tennessee, and southwest Virginia. The ITS systems, services, and support facilities may encompass the entire range of the ITS User Services as defined in the U.S. Department of Transportation, Federal Highway Administration's, National ITS Architecture.

USER DIVISION KYTC, Division of Operations

APPROXIMATE FEE Project funding in the amount of \$ 6,690,000 is provided through Section 5001(a)(6) and 5201 - 5213 (23 USC 307) of TEA-21 and shall be used to complete the tasks as set forth in this proposal. The allocation of funds with three critical components of this project is estimated as follows:

Engineering services	\$ 1,000,000
System deployment, including equipment	\$ 4,690,000
Maintenance and operation of system	\$ 1,000,000

The engineering and related services portion of this project will be negotiated as a lump sum contract with allowance for a 15% operating margin.

PROJECT MANAGER John M. Crossfield, P.E.

PURPOSE AND NEED To provide current travel and tourism information in the corridor; improve traffic flow during incidents and special events; and improve safety.

PRE-SUBMITTAL MEETING **Thursday, December 2, 1999, at 10:30a.m.** at the Conference Room at the National Park Service Ranger Station. The Ranger Station in approximately one block from the Park Service Visitor Center located at the Cumberland Gap National Historic Park on US 25E near Middlesboro.

Attendance is mandatory.

The Cabinet reserves the right to limit attendance to six (6) representatives per IVHS consultant team.

RESPONSE DATE	January 7, 2000
FIRST SELECTION COMMITTEE DATE	January 11, 2000
SECOND COMMITTEE DATE	February 8, 2000
PRE-DESIGN CONFERENCE	February 15, 2000
TENTATIVE DEADLINE FOR CONSULTANT FEE PROPOSAL	February 29, 2000
CONTRACT NEGOTIATIONS	March 14, 2000
NOTICE TO PROCEED	April 17, 2000

Outreach/Stakeholder Involvement	Oct 2000
Regional ITS Deployment Plan	Oct 2000
Traffic Operations Center Integration Plan	Nov 2000
Traffic Operations Center Integration	Nov 2001
System Integration	Oct 2002
Corridor Installation	Oct 2002
Operations	Oct 2003

The selected consultant is expected to meet the scheduled milestone dates.

EVALUATION FACTORS

1. Relative experience of consultant personnel assigned to project team with Advanced Rural Transportation Services; Advanced Traveler Information Services; planning, designing, and operating a Regional Traffic Control Center; and Regional Incident Management Systems. (10 points)
2. Capacity to comply with project schedule including procuring goods and services. (10 points)
3. Past record of performance on projects of similar type and complexity. (10 points)
4. Project approach and proposed procedures to accomplish the services for the project. **This shall include a conceptual plan for completion of the project and a preliminary budget for the three components identified in the "Approximate Fee" section of this advertisement.** (10 points)

5. Consultant's Kentucky offices where work is to be performed. (2 points)

75% - 100% of work accomplished in Kentucky offices - 2 points.

26% - 74% of work accomplished in Kentucky offices - 1 point.

0% - 25% of work accomplished in Kentucky offices - 0 points.

SELECTION COMMITTEE MEMBERS

1. Leon Walden, P.E., User Division
2. Don Dahlinger, P.E., User Division
3. Lonnie Yates, P.E., Secretary's Pool
4. Willie McCann, P.E., Secretary's Pool
5. Paul Gravely, P.E., Governor's Pool

DBE REQUIREMENT

10% of total project cost

SPECIAL INSTRUCTIONS

The selected Consultant must demonstrate an approved administrative and financial structure to carry out the project. The Cabinet reserves the option to modify the selected consultant's agreement to include necessary engineering and/or related services for this project.

Coordination with the Cumberland Gap Tunnel Authority through the Cabinet's Project Manager shall be maintained throughout development of this project to ensure that it can be successfully integrated into that operation upon completion of this contract.

1. Services, equipment and materials required for the completion of work under the project shall be procured in accordance with KRS 45 A, and the regulation associated with the Kentucky Model Procurement Code.
2. The Cabinet's agreement with the selected consultant may include part of the work as disclosed in the scope of work. Additional work as outlined in the scope of work may be included in subsequent contract modifications.
3. All sub-consultants shall complete a TC-40-15 Sub form for inclusion in the prime's response.

SCOPE

The selected Consultant shall be systems integrator who is capable of providing:

Technical Capacity - engineering and related services in each of the following areas: Regional ITS Architecture Development; Project Planning and Design; Project Management; Systems Integration; Project/ Installation Management; Procurement and Installation of Equipment; Software Development/Modification; Operations; Group Facilitation and Training.

Business Resources - the necessary financial capacity, capital, or other resources and the administrative controls and policies to perform the contract.

Services to be provided will be set forth in individual task orders. A task order may relate to a single task area or may involve functions from multiple task areas.

Task 1. Outreach/Stakeholder Involvement Task 2. Regional ITS Deployment Plan Task 3. Traffic Operations Center Integration Plan Task 4. Traffic Operations Center Integration Task 5. System Integration Task 6. Corridor Installation Task 7. Operations

These Task Orders may also relate to:

Extending existing systems and services to existing roadway or corridors

Extending existing systems and services to new roadways or corridors

Extending new services or systems to existing roadways or corridors

Extending new services or systems to new roadways or corridors

Modifying or developing supporting facilities

Modifying or enhancing existing services, systems, facilities, and/or roadways

All of the technologies that may be proposed will require integration in order to insure consistency of the overall system. This will be the most critical element of the entire project in terms of long-term operation and functionality of the system components. **A certification that installation activities have been done in accordance with the Department of Highways requirements shall be provided for any activity that can be defined as construction, either accomplished by the consultant or through an approved bidding process where the**

work is done by others. All such work shall be coordinated through the Division of Contract Procurement and satisfy current Department of Highways requirements. The maintenance and operations period is expected to be one year after the final acceptance.

AVAILABLE KTC STUDIES/ AGREEMENTS

The Cabinet's proposal "[Cumberland Gap Tunnel and Regional ITS Deployment Plan](#)" (FY99 ITS Funds) as well as copies of various agreements in place may be obtained from: Lynn Copies, 1122 US Highway 127 South, Frankfort, Kentucky 40601, Phone: 502-875-8341. Cost will be set by Lynn Copies. These documents will be available for review in the Division of Professional Services, Room 610, State Office Building, 501 High Street, Frankfort, Kentucky 40622, between the hours of 9:00 a.m. and 3:00p.m. local time from December 9, 1999, until January 7, 2000.

[Link to KYTC-FHWA Agreement](#)

[Link to KY-TN Agreement](#)

PROJECT LENGTH

Not Applicable

METHOD OF DESIGN

English Units

CADD Capability(with DGN Intergraph Design File Format)

PROJECT FUNDING

ITS funds from FHWA and local match funds from KYTC.

NATIONAL ITS ARCHITECTURE

The project will use accepted, balloted, or provisional ITS standards, as appropriate.

PRE-QUALIFICATION REQUIREMENTS

The Consultant shall be pre-qualified in all areas as follows:

IVHS (ITS)

- IVHS (ITS)

STRUCTURES

- Structural Design Services Spans < 500'

ROADWAY DESIGN

- Rural Roadway Design

CONSTRUCTION

- Construction Project Supervision

TRAFFIC ENGINEERING SERVICES

- Traffic Engineering
- Electrical Engineering

- Structural Steel Fabrication Inspection

LOCATION
MAP

