

## **I-3802B / I-3610 / B-5365 Project Synopsis**

### **Stipend**

- A stipulated fee of **\$75,000** will be awarded to each short-listed Design-Build Team that provides a responsive, but unsuccessful, Design-Build Proposal in response to the Final Request for Proposals and all associated Addenda. If a contract award is not made, all short-listed Design-Build Teams that provide a responsive Design-Build Proposal shall receive the stipulated fee. In the event that the Department suspends or discontinues the procurement process prior to the Design-Build Proposal submittal date current at the time of the suspension, no stipulated fee will be paid.

### **Project Description and Purpose**

- The Design-Build Project I-3802B / I-3610 / B-5365 1) reconstructs and widens approximately 5.9 miles of I-85, from north of Lane Street (Exit 63) to north of the US 29 / US 601 Connector, to an eight-lane divided facility; 2) improves the I-85 / NC 152 and the NC 152 / US 29 / US 601 Connector interchanges; and 3) replaces Bridge Nos. 21 on US 29 over the Norfolk Southern Railway / North Carolina Railroad and Bridge No. 34 on NC 152 / US 29 over NC 152 / US 29 / US 601 Connector in Cabarrus and Rowan Counties.
- The project's primary purpose is to provide relief from present and future congestion and provide a higher level of service on I-85 and the interchanges within the project limits.

### **Planning**

- The I-3802 / I-3610 / B-5365 Categorical Exclusion (CE) was approved on December 30, 2013.
- The Design-Build Team shall adhere to all environmental document commitments. A copy of the CE will be made available to the short-listed Design-Build Teams.
- TIP Project I-3802B / I-3610 / B-5365 is following the Merger Process. The Department has obtained all necessary concurrence up to, and including, Concurrence Point 4A. The Design-Build Team shall be responsible for obtaining all remaining Merger Concurrence Points.

### **Public Information**

- During the project's construction, the Design-Build Team shall coordinate with the Division 9 Office and the Construction Unit to inform the public of lane closures, construction progress, etc.

## **Roadway**

- The Design-Build Team shall design and construct an eight-lane divided facility with a 22-foot median. The I-85 reconstruction and widening shall be designed and constructed to meet a 70 mph design speed for a freeway designed to interstate standards.
- The Design-Build Team shall design and construct interchange modifications at the I-85 / NC 152 interchange and the NC 152 / US 29 / US 601 Connector interchange.

## **Structures**

- The Design-Build Team shall design and construct all structures necessary to complete the project, including but not limited to structures at the following anticipated locations:
  - Pine Ridge Road over I-85
  - Lentz Road over I-85
  - NC 152 / US 29 over NC 152 / US 29 / US 601 Connector
  - US 29 over Norfolk Southern Railway / North Carolina Railroad
- The Design-Build Team shall rehabilitate or replace the following structures, as identified in the Request for Proposals:
  - Moose Road over I-85
  - Daugherty Road over I-85
  - NC 152 over I-85
  - US 29 / US 601 Connector northbound lanes over I-85
  - Mt. Hope Church Road over I-85
- The Design-Build Team shall remove and dispose of the bridge on Old Beatty Ford Road over I-85.
- The Design-Build Team shall replace or extend all reinforced concrete box culverts impacted by the project's design and / or construction.
- The Design-Build Team shall design and construct all required retaining walls and sound barrier walls. The Department will provide the Final Design Noise Report.

## **Railroad Coordination**

- The Design-Build Team shall coordinate all railroad design and construction details on Norfolk Southern Railway / North Carolina Railway right of way and obtain an executed agreement(s) with the Railroads.

## **Hydraulics**

- The Design-Build Team shall design and construct all storm drainage.
- The Design-Build Team shall obtain FEMA compliance for the regulated stream crossings.
- The Design-Build Team shall be responsible for all Culvert Survey Reports.
- The Design-Build Team shall develop a Stormwater Management Plan.

## **Geotechnical**

- Roadway and structure subsurface investigations will be provided to the short-listed Design-Build Teams. The Design-Build Team shall be responsible for all recommendations, as well as supplemental roadway and structural investigations.
- The Design-Build Team shall design and construct all foundations, embankments, slopes, retaining walls, sound barrier walls and temporary structures.

## **Geoenvironmental**

- Two possible underground storage tanks (UST's) sites and an automobile salvage yard have been discovered on the project and have the potential to be contaminated. The NCDOT will complete preliminary environmental studies on these sites and provide the results to the short-listed teams.
- The Design-Build Team and NCDOT responsibilities for geoenvironmental remediation will be outlined in the Request for Proposals.

## **Environmental**

- The Design-Build Team shall prepare all documents necessary for the Department to obtain the environmental permits for this project. The anticipated required permits include a US Army Corps of Engineers Individual Section 404 Permit and a NC Department of Natural Resources (DENR) Division of Water Resources (DWR) Individual Section 401 Water Quality Certification.
- The Design-Build Team shall complete the Merger Process, including but not limited to obtaining Concurrence Points 4B and 4C.

## **Erosion Control**

- The Design-Build Team shall be responsible for all erosion control designs and implementation.

## **Transportation Management**

- The Design-Build Team shall develop and implement the Transportation Management Plans. A list of parameters, such as lane closures, time restrictions and general guidelines will be provided in the Request for Proposals.

## **Pavement Markings**

- The Design-Build Team shall develop Pavement Marking Plans and install all required temporary and permanent pavement markings and markers.

## **Traffic Signals**

- The Design-Build Team shall design and install all temporary and permanent traffic signals.
- The Design-Build Team shall upgrade one existing traffic signal.

## **ITS Scope of Work**

- The Design-Build Team shall design and install ITS infrastructure, including but not limited to conduit and fiber optic communications cable.
- The Design-Build Team shall design, install and integrate ITS communication equipment, including but not limited to Local Area Network Equipment, Dynamic Message Signs and Closed Circuit Television Cameras.

## **Pavement Design**

- Alternate asphalt and concrete mainline pavement designs and asphalt -Y- Line pavement designs will be provided in the Request for Proposals.
- The Design-Build Team shall design all temporary pavements and evaluate existing shoulders and roadways regarding their suitability for carrying traffic during construction, if necessary.

## **Signing**

- The Design-Build Team shall design, fabricate and install all roadway signs.

## **Location and Surveys**

- Electronic surveys will be provided to the short-listed teams. The Design-Build Team shall be responsible for supplemental surveys.

- Known existing utilities have been located and will be included with the survey data provided to the short-listed teams. The Design-Build Team shall be responsible for all supplemental SUE work.
- The Design-Build Team shall be responsible for all structure surveys.

### **Utility Construction**

- The Design-Build Team shall design and construct the relocation all water and sewer facilities in conflict with the project.

### **R/W Utilities, Conflicts and / or Construction**

- The Design-Build Team shall be responsible for all utility conflicts / relocations and utility construction plans. Coordination shall include, but not be limited to, preparations and / or obtaining all necessary utility agreements.
- The Design-Build Team shall coordinate the construction / relocation of private utilities with the appropriate owners.

### **Right of Way**

- The Design-Build Team shall acquire all right of way, easement and control of access required by the proposed design and / or construction.

### **Lighting**

- The Department will provide signed and sealed Lighting Plans.
- The Design-Build Team shall install all lighting.

### **Construction Engineering Inspection (CEI) Scope of Work**

- The Department will be responsible for CEI work.