

## **R-2247CD & EC Project Synopsis**

### **Stipend**

- A stipulated fee of **\$40,000** 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 R-2247CD & EC will modify the US 421 / SR 1891 (Peace Haven Road) interchange and the US 52 (Future I-74) / NC 65 (Bethania - Rural Hall Road) interchange on the Winston-Salem Northern Beltway.
- The project's primary purpose is to improve north / south connectivity in western Forsyth County and provide congestion relief for area roadways.

### **Planning**

- The R-2247 Final Environmental Impact Statement was signed on March 14, 1996.
- The R-2247 Supplemental Final Environmental Impact Statement / U-2579 and U-2579A Supplemental Draft Environmental Impact Statement was signed on October 1, 2004.
- The R-2247 Supplemental Final Environmental Impact Statement / U-2579 and U-2579A Final Environmental Impact Statement was signed on January 11, 2007.
- The R-2247 / U-2579 and U-2579A Record of Decision was issued on February 15, 2008.
- The Design-Build Team shall adhere to all environmental document commitments. A copy of the environmental documents noted above will be made available to the short-listed Design-Build Teams.

### **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 modifications to the US 421 / SR 1891 (Peace Haven Road) interchange.
- The Design-Build Team shall design and construct modifications to the US 52 (Future I-74) / NC 65 (Bethania - Rural Hall Road) interchange.

## **Structures**

- The Design-Build Team shall design and construct all structures necessary to complete the project, including but not limited to bridges at the following locations:
  - Bridge on NC 65 (Bethania Rural Hall Road) over US 52 (Future I-74)
  - Bridge on SR 1891 (Peace Haven Road) over US 421
  - Bridge on Kester Mill Road over Silas Creek
- 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.

## **Hydraulics**

- The Design-Build Team shall design and construct all storm drainage.
- The Design-Build Team shall obtain FEMA compliance for the regulated stream crossing.
- 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 gas station sites and an automotive repair facility were identified within the R-2247EC project limits.

- 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 Nationwide Section 404 Permit and a NC Department of Environmental Quality (DEQ) Division of Water Resources (DWR) 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 modify existing traffic signals within the project limits.

## **Pavement Design**

- Asphalt mainline and -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 of all water and sewer facilities in conflict with the project.
- The design and construction required to relocate the Crooked Run Road Pump Station will be performed by the City of Winston-Salem under a separate utility agreement with the NCDOT.

## **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 methods.

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

- The Department will be responsible for CEI work.