

## **B-2500B Project Synopsis**

### **Stipend**

- A stipulated fee of \$100,000 will be awarded to each short-listed Design-Build Team that provides a responsive, but unsuccessful, Design-Build Proposal in response to the final RFP 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.

### **Project Description and Purpose**

- Project B-2500B consists of a proposed bridge that provides a long term improvement to NC 12 for the Rodanthe breach that was created by Hurricane Irene in August 2011, as well as the Rodanthe 'S' Curves Hot Spot and two areas identified in the 2008 Final Environmental Impact Statement (FEIS) as geologically susceptible to breaches. There are two alternatives contemplated as part of this advertisement; the "Bridge on New Location Alternative" and the "Bridge within Existing NC 12 Easement Alternative".
- The Bridge on New Location Alternative leaves the existing NC 12 easement just north of the Liberty gas station/Island Convenience Store and extends west into the Pamlico Sound near the emergency ferry terminal to a point between 0.3 and 0.4 mile off-shore. The alignment then turns north and reenters the existing NC 12 easement approximately 1.8 miles north of the Refuge boundary with Rodanthe. This alternative is approximately 3.0 miles long with an approximately 2.6 mile long bridge.
- The Bridge within Existing NC 12 Easement Alternative begins just north of Myrna Peters Road (SR 1492) and continues within the existing NC 12 easement to approximately 1.7 miles north of the Refuge boundary with Rodanthe. This alternative is approximately 2.5 miles long with an approximately 2.3 mile long bridge.

### **Planning**

- The B-2500 Final Environmental Impact Statement (FEIS) and Section 4(f) Evaluation was signed in September 2008, the Revised Final Section 4(f) Evaluation was signed in October 2009, the Environmental Assessment (EA) was signed May 2010, the B-2500 Record of Decision (ROD) was issued in December 2010. The B-2500B Environmental Assessment (EA) is anticipated to be issued in November 2013 with a subsequent Record of Decision anticipates in early 2014.
- The Design-Build Team shall adhere to all environmental documents commitments. A copy of the FEIS, EA and RODs will be made available to the short-listed Design-Build Teams.

## **Public Involvement Scope of Work**

- During the project's construction, the Design-Build Team shall coordinate with the Division 1 Office and the Construction Unit to inform the public of lane closures, construction progress, etc.

## **Roadway Scope of Work**

- For the Bridge on New Location Alternative, the existing NC 12 easement shall be retained and maintained by NCDOT as a local road serving adjacent development between the intersection of the Bridge on New Location Alternative and existing NC 12 in Rodanthe and the Refuge boundary. This road shall end at the Refuge boundary and a means for vehicles to turn around shall be provided. Approximately 1.8 miles of existing NC 12 pavement shall be removed from the Refuge boundary north to the point where Bridge on New Location Alternative connects to existing NC 12 in the Refuge.
- For the Bridge within Existing NC 12 Easement Alternative access to properties adjacent to the bridge in Rodanthe shall be provided by a frontage road on each side of the NC 12 bridge. The two frontage roads shall connect with NC 12 at a four-legged intersection at the south of the end of the project. Crossovers to provide access between the two frontage roads underneath the NC 12 bridge shall be provided.
- Both alternatives shall provide two 12-foot lanes with 8-foot shoulders. Four feet of the 8-foot shoulder would be paved.

## **Structure Scope of Work**

- For both alternatives the structures shall have a minimum of 15.8 feet of clearance above mean high water (17 feet from zero elevation).
- For the Bridge within Existing NC 12 Easement Alternative, in the area of the frontage roads, the structure shall have a minimum of 17 feet of clearance for u-turning motor vehicle traffic (between the ground and the bottom of the superstructure).

## **Hydraulic Scope of Work**

- The Design-Build Team shall be responsible for all storm drainage design and construction.
- The Department will provide scour depths to be used by the teams for their preliminary designs.

## **Geotechnical Scope of Work**

- 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 be responsible for the design and construction of all foundations, embankments, slopes, retaining walls and temporary structures.

## **Geoenvironmental Scope of Work**

- The Design-Build Team and NCDOT responsibilities for geoenvironmental remediation will be outlined in the RFP.

## **Environmental Scope of Work**

- The Design-Build Team shall be responsible for preparing all documents necessary for the Department to obtain the environmental permits for this project. The potential project permits include a US Army Corps of Engineers Section 404 Individual Permit; a NC Department of Environment and Natural Resources, Division of Water Quality (DWQ) Section 401 Water Quality Certification; a Coastal Area Management Act (CAMA) Major Development Permit; a Special use permit from the US Fish and Wildlife Service; and for the Bridge on New Location Alternative, a US Coast Guard Permit.
- The Design-Build Team shall be responsible for completing the Merger process, including 4C Concurrence and a revisit of 4B Concurrence.

## **Erosion Control Scope of Work**

- The Design-Build Team shall be responsible for all erosion control designs and implementation. The Design-Build Team shall have a certified erosion control inspector on the project at all times during construction.

## **Traffic Control Scope of Work**

- The Design-Build Team shall be responsible for developing the Traffic Control Plans. A list of parameters, such as lane closures, time restrictions, moratoriums, and general guidelines will be provided in the Request for Proposals.

## **Pavement Marking Scope of Work**

- The Design-Build Team shall be responsible for the design and installation of all Pavement Marking Plans.

## **Pavement Design Scope of Work**

- Final pavement designs will be provided in the Request for Proposals.

- The Design-Build Team shall be responsible for the design of all temporary pavements and the evaluation of existing shoulders and roadways regarding their suitability for carrying traffic during construction, if necessary. If required, the Design-Build Team shall be responsible for strengthening existing facilities prior to routing traffic on them.

### **Signing Scope of Work**

- The Design-Build Team shall be responsible for the design and installation of all roadway signs.

### **Location and Surveys Scope of Work**

- Electronic surveys are completed and 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.

### **R/W Utilities, Conflicts and / or Construction Scope of Work**

- 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 be responsible for coordinating the construction / relocation of private utilities with the appropriate owners.

### **Right of Way Scope of Work**

- The Design-Build Team shall be responsible for all right of way and easement acquisitions required by the proposed design and / or construction.

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

- The Department will be responsible for CEI work.