

R-2813B Project Synopsis

Purpose and Description of Project:

- The Design-Build Project, R-2813B, extends from west of Clayton Road (SR 3501) to east of I-26 in Buncombe County, a distance of approximately 1.0 mile. The proposed improvements consist of widening NC 146 (Long Shoals Road) to a four-lane divided facility with wide outside lanes that accommodate cyclists.
- The purpose of this project is to reduce travel times, provide more efficient vehicular operation, improve traffic flow and increase safety.

Planning:

- Planning studies have been completed. An Environmental Assessment (EA) was approved on November 26, 1997 and a Finding of No Significant Impact (FONSI) was completed on August 18, 1999.

Public Involvement Scope of Work:

- During the project's construction, the Design-Build Team shall coordinate with the Division 13 Office and the Construction Unit to inform the public of lane closures, construction progress, etc.

Roadway Scope of Work:

- The Design-Build Team shall design and construct a four-lane divided facility with an 18.5-foot raised median from west of Clayton Road to Ledbetter Road (SR 3498). The proposed facility will tie to the existing two-lane typical section at the western terminus.
- The Design-Build Team shall design and construct a 5-lane curb and gutter facility from Ledbetter Road to the beginning of TIP Project R-2813C. The eastern limits of the Long Shoals Road improvements shall be of sufficient length to tie to the R-2813C proposed improvements.
- The Design-Build Team shall design and construct a single point urban interchange (SPUI) at I-26 and Long Shoals Road. The Design-Build Team shall design the interchange to accommodate the I-26 alignment over Long Shoals Road.
- The Design-Build Team shall design and construct all -Y- Lines, ramps and loops within the project limits.

Structure Scope of Work:

- The Design-Build Team shall design and construct dual bridges on I-26 over NC 146.

- The Design-Build Team shall design and construct a seven-lane bridge on Long Shoals Road over the French Broad River. The Design-Build Team shall design and construct these bridges to accommodate utilities as detailed in the RFP.
- The Design-Build Team shall design and construct the extension or replacement of an existing 6' * 6" box culvert.

Hydraulics Scope of Work:

- The Design-Build Team shall be responsible for all storm drainage design and construction.
- The Design-Build Team shall be responsible for coordinating with the Federal Emergency Management Agency (FEMA), TVA and local authorities as necessary regarding application and approval for floodway revisions that may be necessary or obtaining a FEMA No-Rise Certification.
- The Design-Build Team shall be responsible for a Bridge Survey Report for the bridge over the French Broad River.
- The Design-Build Team shall be responsible for a Culvert Survey Report for the extension / replacement of the existing 6' * 6' box culvert.
- The Design-Build Team shall be responsible for development of the permit impact sheets.

Location & Surveys Scope of Work:

- Electronic surveys are completed and will be provided to the short-listed teams. Supplemental surveys shall be the responsibility of the Design-Build Team.
- Known existing utilities have been located and will be included with the survey data. All supplemental SUE work shall be the responsibility of the Design-Build Team.
- All structure surveys shall be the responsibility of the Design-Build Team.

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 structural and roadway investigations.
- All foundation designs and recommendations shall be the responsibility of the Design-Build Team.

GeoEnvironmental Scope of Work

- Three underground storage tank (UST) facilities in the area have the potential to be contaminated and may be impacted by the project. Additional environmental studies will be completed on these sites by NCDOT and the results will be provided to the short-listed Design-Build Teams. The Design-Build Team shall be responsible for the satisfactory removal and disposal of contaminated soils from these sites.
- If any additional UST's are discovered within the right of way, it shall be the Design-Build Team's responsibility to contact the Geotechnical Unit and arrange for removal.

Environmental Scope of Work:

- The Design-Build Team shall be responsible for preparing all documents necessary for the Department to obtain the environmental permits. The Design-Build Team shall be responsible for permit applications for the following: US Army Corps of Engineers Section 404 Individual Permit; the NC Department of Natural Resources (DENR) Division of Water Quality (DWQ) Section 401 Water Quality Certification and Tennessee Valley Authority Section 26a Permit.

Erosion Control Scope of Work:

- All erosion control designs and implementation shall be the responsibility of the Design-Build Team.
- The Design-Build Team shall have an erosion control inspector on the project at all times during construction.

Traffic Control and Pavement Marking Scope of Work:

- The Design-Build Team shall be responsible for developing the Traffic Control and Pavement Marking Plans.
- A list of parameters, such as lane closures, time restrictions and general guidelines will be provided to the short-listed teams.

Pavement Scope of Work:

- Final asphalt pavement designs will be provided to all short-listed teams.
- The Design-Build Team shall be responsible for all temporary pavement designs and the evaluation of existing shoulders regarding their suitability for carrying traffic during construction. If required, the Design-Build Team shall be responsible for strengthening existing shoulders prior to routing traffic on them.

Signing Scope of Work:

- The design and installation of roadway signs shall be the responsibility of the Design-Build Team.

Signal Scope of Work:

- The design and installation of permanent and temporary signals, as well as all associated equipment shall be the responsibility of the Design-Build Team.

Right of Way Acquisition Scope of Work:

- All right of way acquisition and easement acquisitions required by the proposed design and / or construction shall be the Design-Build Team's responsibility

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 any necessary utility agreements when applicable.
- The Design-Build Team shall be responsible for coordinating the construction / relocation of private utilities with the appropriate owners. The Department shall be responsible for non-betterment utility relocation costs when the utility company has prior rights of way / compensable interest. The utility company shall be responsible for the relocation costs if they cannot furnish evidence of prior rights of way or a compensable interest in their facilities.

Construction Engineering Inspection (CEI) Scope of Work:

- The Division Office shall be responsible for CEI work