

R-2554BB & C Project Synopsis

Revised May 9, 2011

Revised May 11, 2011

The Department intends to convert Project R-2554BB & C from Metric Units to English Units. However, should substantial problems / issues arise during the conversion process, the project will remain in Metric Units.

Project Description and Purpose

- The Design-Build Project R-2554BB & C provides a four-lane divided freeway on new location from east of Wayne Memorial Drive (SR 1556) in Wayne County to east of Promise Land Road (SR 1323) in Lenoir County. The project extends the US 70 Goldsboro Bypass approximately 20.12 kilometers (12.50 miles).
- The primary purpose of this project is to improve safety, increase traffic capacity to meet projected transportation needs and reduce travel times.

Planning

- The R-2554 Final Environmental Impact Statement (FEIS) was approved in February 1998 and the R-2554 Record of Decision (ROD) was approved on August 3, 1998.
- The Design-Build Team shall adhere to all environmental documents commitments. A copy of the FEIS and ROD will be made available to the short-listed Design-Build Teams.
- TIP Projects R-2554BB & C are following the Merger 01 Process. The R-2554B (Sections BA and BB) Concurrence Point 4B Hydraulic Design Review Meetings were completed in June 2004. [The R-2554C Concurrence Point 4B Hydraulic Design Review Meeting was held in August 2003.](#)

Public Involvement

- During the project's construction, the Design-Build Team shall coordinate with the Division 4 Office and the Construction Unit to inform the public of lane closures, construction progress, etc.

Roadway

- The Design-Build Team shall be responsible for the design and construction of a four-lane divided freeway with a 14-meter (46-foot) median. The US 70 Goldsboro Bypass shall be designed and constructed to meet a 120 km / hr (75 mph) design speed for a level urban freeway.
- The project includes the design and construction of new interchanges at the following locations:
 - US 13 / US 70 Goldsboro Bypass
 - Parkstown Road (SR 1714) / US 70 Goldsboro Bypass

- Existing US 70 / US 70 Goldsboro Bypass

Structures

- The Design-Build Team shall be responsible for the design and construction of all structures necessary to complete the project. The Design-Build Team shall design and construct bridges that adhere to the AASHTO LRFD Bridge Design Specifications at the following anticipated locations:
 - Dual Bridges on the -L- Line over Reedy Branch
 - Bridge on Hare Road (SR 1570) over the - L- Line
 - Bridge at US 13 and the -L- Line
 - Bridge on Hood Swamp Road (SR 1705) over the -L- Line
 - Bridge on Corbett Road (SR 1708) over the -L- Line
 - Bridge at Parks Town Road (SR 1714) and the -L- Line
 - Dual Bridges on the -L- Line over West Bear Creek
 - Bridge on Beston Road (SR 1719) over the -L- Line
 - Dual Bridges on the -L- Line over the Norfolk Southern Railroad and New Hope Road (SR 1003)
 - Bridge on Washington Street (SR 1603) over the -L- Line
 - Bridge(s) at existing US 70 and the -L- Line
- It is anticipated that a minimum of eleven (11) reinforced concrete box culverts will be required.

Railroad Coordination

- The Design-Build Team shall be responsible for coordinating all railroad design and construction details on Norfolk Southern Railroad right of way and obtaining an executed agreement with the Railroad.

Hydraulics

- The Design-Build Team shall be responsible for all storm drainage design and construction.
- The Design-Build Team shall obtain FEMA compliance for the regulated stream crossings.
- The Department will provide signed and sealed Bridge Survey Reports and Culvert Survey Reports. If required by the Design-Build Team's design and / or construction methods, the Design-Build Team shall be responsible for all required report modifications.
- The Design-Build Team shall develop a State 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 be responsible for the design and construction of all foundations, embankments, slopes, retaining walls and temporary structures.

Geoenvironmental

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

Environmental

- The Design-Build Team shall be responsible for preparing all documents necessary for the Department to obtain the environmental permits for this project. The anticipated project permits include a US Army Corps of Engineers Section 404 Individual Permit and a NC Department of Environment and Natural Resources, Division of Water Quality (DWQ) Section 401 Water Quality Certification.
- The Design-Build Team shall be responsible for completing the Merger Process, including but not limited to obtaining Concurrence Point 4C for Section R-2554B.
- The Department will provide the approved on-site mitigation site(s). The Design-Build Team shall be responsible for the plan, design and successful construction of the on-site mitigation.

Erosion Control

- 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 Management

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

Pavement Marking

- The Design-Build Team shall be responsible for developing the Pavement Marking Plans, and installing all required temporary and permanent pavement markings and markers.

Traffic Signals

- The Design-Build Team shall be responsible for the design and installation of all temporary and permanent traffic signals.

Pavement Design

- [Alternate asphalt and concrete 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.

Signing

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

Location and Surveys

- 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.
- The Design-Build Team shall be responsible for all structure surveys.

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

Right of Way

- The Department has begun the right of way acquisition process on Section R-2554C. The Design-Build Team shall be responsible for all right of way and easement acquisitions not finalized prior to award of the contract for Sections R-2554BB and R-2554C.
- The Design-Build Team shall be responsible for any additional right of way and easement acquisitions required by the proposed design and / or construction for those parcels that the Department has completed the right of way acquisition process.

Construction Engineering Inspection (CEI)

- The Department will be responsible for CEI work.