

U-5518 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 U-5518 will widen US 70 (Glenwood Avenue) to a six-lane divided facility from SR 2095 (Page Road Extension) to I-540, a distance of approximately 2.8 miles. The project will also add interchanges at Aviation Parkway Extension, SR 3067 (T. W. Alexander Drive) and SR 3100 / SR 3109 (Brier Creek Parkway).
- The primary purpose of this project is to improve traffic flow and operations on US 70 (Glenwood Avenue), and associated intersections and interchanges, from SR 2095 (Page Road Extension) to I-540, by reducing anticipated travel delays and queue lengths as compared to those anticipated in the future (2040) no-build condition.

Planning

- The U-5518 Categorical Exclusion Type-III (CE-III) is expected to be approved in March 2019.
- TIP Project U-5518 is following the Merger Process. The Department has obtained all necessary concurrence up to Concurrence Point 2A. The Department plans to obtain Concurrence Point 3 and Concurrence Point 4A by February 2019.
- The Design Build Team shall adhere to all environmental document commitments. A copy of the U-5518 CE-III will be provided to the short-listed Design-Build Teams once available.

Public Information

- During the project's construction, the Design-Build Team shall coordinate with the Division 5 Office and the Construction Unit to inform the public of lane closures, construction progress, etc.

Roadway

- From SR 2095 (Page Road Extension) to I-540, the Design-Build Team shall widen US 70 (Glenwood Avenue) to a six-lane divided facility with a 36-foot median.
- The US 70 (Glenwood Avenue) widening shall be designed and constructed to meet a 60 mph design speed for an expressway.
- The Design-Build Team shall design and construct new interchanges at Aviation Parkway Extension, SR 3067 (T. W. Alexander Drive) and SR 3100 / SR 3109 (Brier Creek Parkway).

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 locations:
 - Bridge on Aviation Parkway Extension over US 70 (Glenwood Avenue)
 - Bridge on SR 3067 (T. W. Alexander Drive) over US 70 (Glenwood Avenue)
 - Bridge on SR 3100 / SR 3109 (Brier Creek Parkway) over US 70 (Glenwood Avenue)
- The Design-Build Team shall replace or extend all existing 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.
- The Design-Build Team shall coordinate with the Federal Aviation Administration and Raleigh-Durham International Airport (RDU) for any necessary permits required for working within the RDU Height Zone Ordinance.

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 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 design and construct all foundations, embankments, slopes, retaining walls and temporary structures.

Geoenvironmental

- The Department has identified four sites of concern within the proposed project study area.
- 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 Section 404 Individual Permit; and a NC Department of Environment and Natural Resources, Division of Water Quality (DWQ) Section 401 Water Quality Certification.
- Project U-5518 is in the Merger Process used by the environmental agencies and the Department to obtain environmental permits. The Design-Build Team shall complete the Merger Process, including but not limited to obtaining Concurrence Point 4B and Concurrence Point 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 temporary and permanent pavement markings / markers.

ITS

- 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.

Traffic Signals

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

Pavement Design

- Asphalt 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 all 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

- For all water and sewer facilities in conflict with the project, the Design-Build Team shall design and construct the required relocations.

Utility Rights of Way, 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, easements 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.