



PAT McCrory  
Governor

NICHOLAS J. TENNYSON  
Secretary

July 5, 2016

**Addendum No. 1**

Contract No.: C203895  
TIP No.: B-5692, B-5693, B-5698, B-5701, B-5702, B-5706 and B-5712  
Counties: Bladen, Cumberland and Robeson  
Project Description: Seven (7) Express Design-Build Bridge Replacement Projects in Division 6

RE: Addendum No. 1 to Final RFP

**July 19, 2016 Letting**

To Whom It May Concern:

Reference is made to the Final Request for Proposals dated June 20, 2016 recently furnished to you on the above project. We have since incorporated changes, and have attached a copy of Addendum No. 1 for your information. Please note that all revisions have been highlighted in gray and are as follows:

Page No. 61 of the *Geotechnical Scope of Work* has been revised. Please void Page No. 61 in your proposal and staple the revised Page No. 61 thereto.

If you have any questions or need additional information, I can be reached by telephone at (919) 707-6900.

Sincerely,

A handwritten signature in black ink, appearing to read 'R.A. Garris', with a long, sweeping underline.

R.A. Garris, PE  
State Contract Officer

RAG/rce

cc: Mr. Rodger Rochelle, PE  
Mr. Greg Burns, PE  
Ms. Virginia Mabry  
Ms. Teresa Bruton, PE  
File

The logo for 'Nothing Compares', featuring a stylized graphic of three wavy lines above the text 'Nothing Compares' in a serif font, with a small 'SM' trademark symbol.

End bent slopes shall be 1.5:1 (H:V) or flatter with rip rap slope protection. Place end bent slope protection from the toe of slope to berm to protect the approach embankment from scour.

Analyze deep foundations and pile bents using either L-Pile or FB-Pier. Design vertical piles with a sufficient embedment in soil and/or rock to achieve “fixity”.

Add steel pile points to all driven piles with an estimated embedded length of 20’ or less.

#### **B. Roadway Foundation**

All proposed unreinforced fill and cut slopes shall be 3:1 (H:V) or flatter except bridge end bent slopes (see Section A – Structure Foundations). In areas where a sliver fill is required to tie the proposed grade into the existing ground, fill slopes may be steeper than 3:1 (H:V) provided the existing slopes are stable and erosion control measures are utilized on the sliver fill slopes. However, in no case shall a slope be steeper than 1.5:1. The Design-Build Team shall submit slope stability analysis verifying stability of any modified slopes, including details to control erosion of the slope. For all other proposed slopes steeper than 3:1 (H:V), the slopes shall be reinforced and detailed design calculations shall be submitted to the NCDOT Geotechnical Engineering Unit, via the Design-Build Unit, for review and acceptance.

The Design-Build Team shall provide subsurface drainage recommendations for all locations with less than five feet of vertical separation between groundwater table and pavement subgrade. At a minimum, subsurface drainage shall be constructed at locations as required above in accordance with Section 815.02 of the NCDOT Standard Drawings to a depth of 6 feet below subgrade or as deep as outfall will allow. Provide subsurface drainage details for all cut slopes and grade points that will intersect groundwater. Provide subsurface drainage details for any artesian groundwater encountered.

All subsurface and / or slope drainage that is designed for either subgrade, artesian groundwater, or slope stability shall be installed regardless of site conditions at the time of construction.

Standard Drawing 422.10 shall be used on all bridges.

### **III. CONSTRUCTION REQUIREMENTS:**

All construction and materials shall be in accordance with the NCDOT 2012 *Standard Specifications for Roads and Structures* and current NCDOT *Project Special Provisions* unless noted otherwise elsewhere in this RFP. The Design-Build Team shall be responsible for investigating, proposing and incorporating remedial measures for any construction problems related to foundations, subgrades, settlement, slopes, groundwater,