



PAT McCRORY  
Governor

NICHOLAS J. TENNYSON  
Secretary

October 4, 2016

**Addendum No. 1**

Contract No.: C203924  
TIP No.: B-5657, B-5658, B-5660, B-5665 and B-5672  
Counties: Halifax and Nash  
Project Description: Seven (7) Express Design-Build Bridge Replacement Projects in Division 4 Set A

RE: Addendum No. 1 to Final RFP

**October 18, 2016 Letting**

To Whom It May Concern:

Reference is made to the Final Request for Proposals dated September 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. 45 of the *Roadway Scope of Work* has been revised. Please void Page No. 45 in your proposal and replace it with the revised Page No. 45.

Page Nos. 53 and 55 of the *Hydraulics Scope of Work* has been revised. Please void Page Nos. 53 and 55 in your proposal and replace them with the revised Page Nos. 53 and 55.

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".

R.A. Garris, PE  
State Contract Officer

RAG/jjl

cc: Mr. Rodger Rochelle, PE  
Mr. Tim Little, PE  
Ms. Virginia Mabry  
Ms. Teresa Bruton, PE  
File



**ROADWAY SCOPE OF WORK****Project Details**

- The Design-Build Project consists of replacing a total of seven (7) bridges located in Halifax and Nash Counties. Bridge No. 410138 shall be replaced on new alignment to the west side of the existing structure and utilize the existing structure as an on-site detour. The remaining bridges shall be constructed in place with off-site detours.
- The Design-Build Team shall be responsible for designing and constructing the bridge approaches to tie the new structures into the existing pavement in accordance with the *NCDOT Sub Regional Tier Design Guidelines for Bridge Projects* dated February 2008, as applicable, current NCDOT design standards, and NCDOT policies. The Design-Build Team shall make every effort to stay within the existing maintenance limits to reduce or eliminate the need for additional right of way or easements.
- All bridges are considered subregional.
- The Design-Build Team shall use Design Speed (unless otherwise noted herein), ADT, Travel Lane Width, and the Paved Shoulder Width as shown in the table below for the full length of the construction limits. The Design Build Team shall use the Out to Out Bridge Width as specified in the Structures Scope of Work. The lanes shall be striped to match existing travel lane widths.

County	Bridge No.	Route	Design Speed (mph)	ADT	Travel Lane Width (ft)	Paved Shoulder (ft)
Halifax	410014	SR 1001	55	490	12	3'-5"
Halifax	410015	SR 1001	55	490	12	3'-5"
Halifax	410065	SR 1100	55	205	11	4
Halifax	410066	SR 1100	55	205	11	4
Halifax	410134	SR 1310	55	630	10	0
Halifax	410138	SR 1309	35	270	10	0
Nash	630126	SR 1310	45	365	11	4

- Excluding Bridge No. 410138, at a minimum, the Design-Build Team shall construct full depth pavement in all areas of pavement removal, widening or re-alignment. In no case shall the existing pavement width be narrowed.
- At Bridge No. 410138, the Design-Build Team shall provide full depth pavement to the end of the guardrail from each end of the proposed structure. For the remainder of the construction limits, the Design-Build Team shall provide full depth ABC.
- A 0.025 cross slope shall be used in all normal crown sections.
- Unless otherwise noted herein, the length of overlay, wedging, and new pavement at each bridge site shall extend a minimum 300 feet total (excludes proposed bridge length). The

**HYDRAULICS DESIGN SCOPE OF WORK**

The Design-Build Team shall be required to do the following:

- Employ a prequalified private engineering firm to perform hydraulic design for all work required under this contract.
- Attend a Hydraulic pre-design meeting prior to the first hydraulic submittal.
- Design the storm drainage using Geopak Drainage.
- Provide a *Stormwater Management Plan* using the most current NCDOT Best Management Practices where applicable.
- Provide Bridge Survey Reports as required by NCDOT Hydraulic Guidelines stated below.
- Design the structure at each location to meet the requirements of the Memorandum of Agreement (MOA) between NCDOT and NC Floodplain Mapping Program (NCFMP) approved August 12, 2016, or as may be amended, for the Department's submittal to FEMA. In the event an MOA cannot be achieved, the Design-Build Team shall be responsible for preparing a CLOMR package; however, the Department will be responsible for all FEMA submittal fees associated with the submittal of a CLOMR, and subsequently LOMR, packages. In the event that the Design-Build Team revises their design after initial submittal of the MOA or CLOMR package and a second FEMA submittal for that bridge is required, then the Design-Build Team will be responsible for all FEMA submittal fees associated with the re-submittal.
- The Department will not allow direct contact between the Design-Build Team and the representatives of NCFMP and their contractors either by phone, e-mail, or in person without the State Hydraulics Engineer or his designee(s) present. The Department will review with NCFMP the eligibility for the MOA at their monthly meeting. The MOA Package with the accepted Bridge Survey Report for each site shall be submitted for review one month prior to the meeting. A member of the Design-Build Team may attend this meeting. The Design-Build Team shall recognize that the MOA allows for as much as one hundred fifty (150) days for approval once an accepted MOA Package has been submitted by the Department to NCFMP. No construction activity shall occur in FEMA regulated floodplains until the MOA package (or CLOMR) for the specific site has been approved by the NCFMP. The Department will be responsible for all fees associated with the submittal of MOA Packages.
  - Construct structures in FEMA regulated floodplains to ensure adherence to the approved FEMA submittal. The Design-Build Team shall ensure that construction of all structures in FEMA regulated floodplains adheres to the approved CLOMR(s) and / or MOA(s). Within three months of completion of a structure in a FEMA regulated floodplain, the Design-Build Team shall provide a sealed As-Built survey for the structure and certify that the constructed structure adheres to the approved CLOMR or MOA. Guidance for As-built plan certification for FEMA-Regulated Stream Crossings may be found on the Hydraulics Unit website at the following address:

**General**

- Design in accordance with criteria provided in the North Carolina Division of Highways *Sub Regional Tier Guidelines for Bridge Projects* dated February 2008, *Guidelines for Drainage Studies and Hydraulics Design-1999* and the addendum *Handbook of Design for Highway Drainage Studies-1973*, North Carolina Department of Transportation *Stormwater Best Management Practices Toolbox-2014* and the North Carolina Division of Highways Hydraulics Unit website:

<https://connect.ncdot.gov/resources/hydro/pages/default.aspx>

**Information Supplied**

- Memorandum of Agreement (MOA) between NCDOT and NC Floodplain Mapping Program approved August 12, 2016 and associated materials are located at:

<https://connect.ncdot.gov/resources/hydro/Pages/FEMA-Interagency-Design.aspx>

- FEMA models are available on the North Carolina Flood Risk System (FRIS) website. NCDOT will provide the FEMA model not available on FRIS website The FRIS website is located at:

<http://fris.ncem.org/fris>

- Pre-design Hydraulic Report for each bridge location.