



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE  
GOVERNOR

EUGENE A. CONTI, JR.  
SECRETARY

March 8, 2012

**Addendum No. 1**

RE: Contract ID C202971

WBS # 17BP.14.P.3

**Polk, Henderson Counties**

Bridges # 33, 98, 99, 228, 230, 233 and 234 on I-26, #129 on NC-191,  
#183 on US-64 and #32 on NC-108

**March 20, 2012 Letting**

To Whom It May Concern:

Reference is made to the proposal furnished to you on this project.

The following revisions have been made to the Proposal:

On Page No. 54 the paragraph titled "Past Performance Submittal" has been revised.  
Please void Page No. 54 in your proposal and staple the revised Page No. 54 thereto.

Sincerely,

R. A. Garris, PE  
Contract Officer

RAG/jag  
Attachment

cc: Mr. Jon Nance, PE  
Mr. Ron Hancock, PE  
Mr. J. B. Setzer, PE  
Ms. D. M. Barbour, PE  
Mr. J. V. Barbour, PE  
Ms. Lori Strickland

Mr. R.E. Davenport, PE  
Ms. Natalie Roskam, PE  
Mr. G.R. Perfetti, PE  
Mr. Ronnie Higgins  
Mr. Larry Strickland  
Project File (2)

**MAILING ADDRESS:**

NC DEPARTMENT OF TRANSPORTATION  
CONTRACT STANDARDS AND DEVELOPMENT UNIT  
1591 MAIL SERVICE CENTER  
RALEIGH NC 27699-1591

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**LOCATION:**

CENTURY CENTER COMPLEX  
ENTRANCE B-2  
1020 BIRCH RIDGE DRIVE  
RALEIGH NC 27610

**LATEX MODIFIED CONCRETE - VERY EARLY STRENGTH**

SPECIAL

**Description**

This work consists of furnishing and placing an overlay of latex modified concrete-very early strength (LMC-VES) over conventional existing concrete or repair concrete on bridge decks. Unless otherwise indicated on the plans, groove the bridge floor in accordance with Article 420-14(B) of the *Standard Specifications*.

**Materials**

For equipment, proportioning and mixing of modified compositions, see Section 1000-8 of the *Standard Specifications*. Prior to beginning any work, obtain approval for all equipment to be used for deck preparation, mixing, placing, finishing, and curing the latex modified concrete.

For material of modified compositions, see Section 1000-8 of the *Standard Specifications* with the following modifications:

Page 10-10, Section 1000-8(A), add the following:

Cement – For latex modified concrete-very early strength, Cement shall be approximately 1/3 calcium sulfoaluminate (C4A3S) and 2/3 dicalcium silicate (C2S) or other hydraulic cement that will provide a Latex-Modified Concrete that meets the physical requirements for Latex-Modified Concrete as indicated in this special provision.

Page 10-11, Table beginning in paragraph 4, add the following:

Minimum compressive strength, normal setting concrete, 3000 psi at 7 days; very early strength concrete, 3000 psi at 3 hours.

Water-Cement Ratio by weight, normal setting concrete, maximum 0.40; very early strength concrete, maximum 0.42

Page 10-11, last paragraph of 1000-8, add the following:

Submit the latex modified concrete mix design, including laboratory compressive strength data for a minimum of six 4-inch by 8-inch cylinders at the appropriate age (7 days for normal setting concrete; 3 hours for very early strength concrete) to the Engineer for review. Include test results for the slump and air content of the laboratory mix. Perform tests in accordance with AASHTO T 22, T 119 and T 152.

**System Quality Submittals**

**Past Performance Submittal:** At the preconstruction conference, the latex modified concrete overlay Contractor shall submit verifiable records demonstrating that he or his approved subcontractor has performed satisfactorily, or that he has had direct supervision of such satisfactory performance of a sub-contractor constructing contracts using very early strength latex modified concrete. At least five (5) bridges with similar scope of work in any state shall be the minimum number demonstrated.