



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

June 11, 2012

Addendum No. 1

RE: Contract ID C203099

WBS # 41470.3.4

F. A. # BRNSH-0012(53)

Dare County (B-5014C)

Bents #158-162 (Scour Protection) and Bent #159 (Rehabilitation) On Bridge #11
Over the Oregon Inlet On NC-12

June 19, 2012 Letting

To Whom It May Concern:

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

The following revision has been made to the proposal:

On Page No. 60 a new paragraph entitled "Alternate Material" has been added to the project special provision entitled "Gabion Mattress". Please void Page No. 60 in your proposal and staple the revised Page No. 60 thereto.

Sincerely,

for Ja Hay
K. A. Garris, PE
Contract Officer

RAG/jag
Attachment

cc: Mr. Jon Nance, PE
Mr. Ron Hancock, PE
Mr. Jerry Jennings, PE
Ms. D. M. Barbour, PE
Mr. J. V. Barbour, PE
Ms. Lori Strickland
Project File (2)

Mr. R.E. Davenport, PE
Ms. Natalie Roskam, PE
Mr. G.R. Perfetti, PE
Mr. Ronnie Higgins
Mr. Larry Strickland
Ms. Marsha Sample

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ENTRANCE B-2
1020 BIRCH RIDGE DRIVE
RALEIGH NC 27610

fabrication into mesh. The core wire of all gabion mattresses and frame components shall equal or exceed Federal Specification QQW-461. The core wire shall possess tensile strength in the range of 60,000 to 80,000 psi and not less than a finish 5, soft, class 3, zinc coating of not less than 0.80 ounce per square foot of uncoated wire surface. Selvedges or perimeter basket frame core wire shall be of heavier gauge than that of the wire mesh with a minimum diameter after galvanization of 0.1063 inches, and an overall minimum diameter (core wire plus PVC coating) of 0.1279 inches. All wire used for lacing, tying or as internal connecting wire within basket cells shall be galvanized and PVC coated meeting the same specifications for the hexagonal mesh. The PVC coated wire of all gabion components shall be resistant to the destructive effects of immersion in acidic, salt, or polluted water, exposure to ultraviolet light and abrasion, and retain these characteristics after a period of not less than 3,000 hours under test in accordance with ASTM Test Designation G-23. The PVC coating shall have a nominal thickness of 0.0217 inches and a minimum thickness of 0.015 inches.

ALTERNATE MATERIAL

An alternate to the PVC coated galvanized steel wire mesh may be proposed. The alternate must meet the design and construction requirements of the project and will be subject to review and approval by the Department. The nominal mesh opening and tensile strength of the alternate shall be equivalent to the mesh opening and tensile strength of the PVC coated galvanized steel wire mesh.

STONE

The stone shall consist of sound, hard, dense, durable crystalline rock obtained by quarrying. The stone shall be such quality that permanence in the structures is assured under all conditions to which it will be subjected. The stone shall be free from open or incipient cracks, seams, and fissures, and from porous structure, solution cavities structural planes of weakness and from component minerals and cementing or bonding materials that might contribute to spalling or breakdown from handling and placing, and from wave action and chemical action from sea water or air. The stone shall be furnished in irregular and angular shapes, with the least dimension of any stone not less than one-third of its greatest dimension. Flat stones, slabs, boulders, and parts of boulders will be rejected. Not more than 5 percent by weight of clean spalls resulting from loading and shipment will be allowed in any one barge, carload, or truckload. The stone may be unwashed quarry material provided it meets all requirements of these specifications and is placed in conformance with all requirements of the Department's construction permits (including water quality requirements). Prior to construction the Contractor shall submit testing results and certification that all proposed construction materials meet all requirements of the Standard Specifications.

Stone shall consist of stone weighting not less than 164 pounds per cubic foot (saturated surface dry) and the absorption shall be less than 4 percent. It shall contain no organic matter, nor soft, friable particles in quantities considered objectionable to the engineer. It shall consist of quarry stone with the following size limitations:

(1) Gabion Stone

- Minimum stone size: 2 pound (3 inch nominal diameter)
- Maximum stone size: 14 pound (6 inch nominal diameter)