



Paul R. LePage  
GOVERNOR

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
16 STATE HOUSE STATION  
AUGUSTA, MAINE 04333-0016

March 22, 2013  
Subject: **Shapleigh**  
Federal Project No: BH-1833(000)X  
State WIN: 018330.00, 019271.00 &  
019272.00  
**Amendment No. 1**

David Bernhardt  
COMMISSIONER

Dear Sir/Ms:

Make the following change to the Bid Document:

In the Bid Book, after page 87 **ADD** the attached "SPECIAL PROVISION, SECTION 620, GEOTEXTILES" 3 pages dated 3/20/13

The following questions have been received:

**Question:** Will the installation of the coffer dams, grouted rip-rap, stone blankets and cable mats have to be done by hand labor?

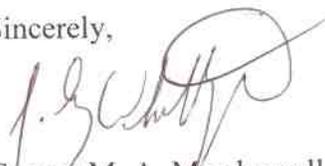
**Response:** The Contractor has the option of placing materials by machine or hand. In some locations where space is limited, materials may have to be placed by hand. Wheeled or tracked equipment may be used inside a cofferdam, provided that the cofferdam adequately contains the work area. If the cofferdam is not going to be dewatered, equipment working within it must be cleaned prior to use within the cofferdam. Wheeled or tracked equipment may not be used in the water outside of cofferdams, and may not operate in the water to install cofferdams."

**Question:** Will the DOT consider adding a pay item by estimated quantities for anticipated cost of material required to raise stream bed elevations?

**Response:** No. To the maximum extent practicable, the top of the scour countermeasure installed shall match the existing streambed. The overall intent is to not raise the stream bed. Streambed material will most likely need to be removed unless a large scour hole is present. Any material needed to fill in large depressions or scour holes will be paid for under items 502.83 and 610.522.

Consider this change and information prior to submitting your bid on April 3, 2013.

Sincerely,



George M. A. Macdougall P.E.  
Contracts & Specifications Engineer

PRINTED ON RECYCLED PAPER

**SPECIAL PROVISION**

**SECTION 620**

**GEOTEXTILES**

(Erosion Control Filter Layer for Scour Countermeasures)

Description This work shall consist of furnishing and installing a filter layer between the existing streambed and proposed scour countermeasure or as directed by the Resident. The following option shall be used.

Geotextile fabric with protective aggregate cushion

General Requirements The total filter layer shall be approximately 6 inches thick. Riprap shall not be dropped from a height of more than 1 foot above the filter layer. The stone used for protective aggregate cushion, as specified later, shall not be dropped from a height of more than 3 feet above the filter layer. The surface of the streambed shall be prepared for placing the filter layer by clearing any objects that may damage the geotextile or geocontainers such as large rocks, debris, or any other sharp objects. Placement of geotextile onto the streambed shall not begin until the streambed is properly prepared and the condition is approved by the Resident.

The certification requirements of Standard Specification section 620.05 shall be followed for the geotextile provided with the addition that the geotextile shall comply with either Standard Specification section 722 - Geotextiles, or the specifications herein, whichever is applicable to the filter layer.

The sampling and acceptance requirements of Standard Specification section 620.06 shall be followed for the geotextile provided with the addition that test methods and conformance shall be based on those referenced in either Standard Specification section 722 - Geotextiles, or the specifications herein, whichever is applicable to the filter layer option chosen.

Shipment, storage, protection, and repairs of geotextile shall follow the requirements in Standard Specification section 620.07.

Geotextile fabric with protective aggregate cushion Consists of a non-woven or woven erosion control geotextile fabric placed on the prepared streambed with a 6 inch protective aggregate cushion placed on top of the fabric.

Materials

A. Geotextile fabric

The geotextile fabric shall be Class 1, Erosion Control Geotextile meeting the requirements of Standard Specification section 722.03.

B. Protective aggregate cushion

The protective aggregate cushion material shall meet the requirements of Standard Specification section 703.12, Aggregate for Crushed Stone Surface. The protective aggregate cushion material needs to remain in-place until the riprap is placed on top. Stones being placed in the river shall be washed with water prior to placement in the river. Stones shall be washed so that they are free of all loose, fine material including dust, dirt, and debris. The method used to wash the stone shall be described in the Soil Erosion and Water Pollution Control Plan (SEWPCP) and approved by the Resident prior to execution.

### Submittals

The Contractor shall submit to the Department a Quality Control Plan (QCP) for use of a geotextile fabric with a protective aggregate cushion as the filter layer. The QCP shall include the manufacturer, type, and properties of the geotextile fabric used as well as a description of the method of placement underwater. This description shall include the method in which the fabric will be weighted down in the water and the type of joint between sections of fabric to be used (overlapping or sewn seams). Where sewn seams are used, stitch type, thread type, and stitch density shall also be reported in the QCP.

The QCP shall be submitted to the Department for approval at least 10 business days prior to execution of the work. The QCP shall be approved by the Department prior to placement of the filter layer.

### Construction

The geotextile shall be placed on the streambed in a manner minimizing wrinkles or folds and such that placement of the overlying materials will not excessively stretch the geotextile, tearing it. The protective aggregate cushion shall be placed so that the stone does not puncture or otherwise damage the fabric.

Overlap and seam requirements for the geotextile shall be in accordance with Standard Specification section 620.04, including the specific specifications for Erosion Control Geotextile. As noted in 620.04c, overlapped seams of erosion control geotextile placed under water shall be a minimum of 3 feet.

Method of Measurement The quantity of erosion control filter layer will be measured by the number of square yards of surface area covered. Measurement will not be made for overlaps, patches, and repairs of damaged geotextile unless additional overlap width is required by the Resident in which case measurement will be made for that added overlap area.

Basis of Payment Erosion Control Filter Layer will be paid for at the contract unit price per square yard. Such payment shall be full compensation for furnishing and installing the filter layer, the QCP, surface preparation, repairs to damaged geotextile, stitching (including sewn

seams), protective aggregate cushion, and all labor, tools, materials, equipment, and other incidentals necessary to complete the work.

Payment will be made under:

| <u>Pay Item</u> |                              | <u>Pay Unit</u> |
|-----------------|------------------------------|-----------------|
| 620.50          | Erosion Control Filter Layer | Square Yard     |