



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

Paul R. LePage
GOVERNOR

David Bernhardt
COMMISSIONER

March 14, 2011
Subject: **Brunswick Topsham**
Federal Project No's: BH-1668(900)X,
BH-1669(000)X & BH-1669(100)X
State PINs: 016689.00, 016690.00 &
016691.00
Amendment No. 1

Dear Sir/Ms:

Make the following change to the Bid Document:

In the Bid Book (pages 76 and 77) **REMOVE** "SPECIAL PROVISION, SECTION 502, STRUCTURAL CONCRETE, (Concrete Wearing Surface)" 2 pages dated February 28, 2011 and **REPLACE** with the attached new "SPECIAL PROVISION, SECTION 502, STRUCTURAL CONCRETE, (Concrete Wearing Surface)" 2 pages dated March 14, 2011

The following questions have been received:

Question: SP 107 Ramp B indicates the ramp may be closed from 7:00pm to 6:00am for 12 nights. It goes on to say that supplemental liquidated damages will be assessed for closures in place between 12:00am and 2:00pm and 2:00pm and 6:00pm, contradicting the 1st sentence. Could you please provide times when closures are allowed, including lane closures? The spec is very confusing as written.

Response: The Contractor will be permitted to close Ramp B for 12 nights as defined as 19:00 (7:00 PM) through 06:00 (6:00 AM). Supplemental liquidated damages will be assessed from 06:00 (6:00 AM) through 19:00 (7:00 PM) for any closure of Ramp B and at an increased rate from 14:00 (2:00 PM) through 18:00 (6:00 PM). Supplemental liquidated damages will also be assessed for any closure of Ramp B during the 19:00 (7:00 PM) through 06:00 (6:00 AM) period that the Contractor has not designated as one of the 12 permitted closure nights.

The 107 was written to address the potential for unapproved closures around the clock. For example, if a permitted closure extends past 06:00 (6:00 AM), the Contractor will be assessed supplemental liquidated damages at the rates described until the bridge is reopened or the daily maximum is reached. If the closure extends to 00:00 (midnight) the following day, supplemental liquidated damages will continue to be assessed.

For example, during a given week Ramp B closures are permitted as follows:



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19:00 (7:00 PM) Thursday through 06:00 (6:00 AM) Friday
19:00 (7:00 PM) Friday through 06:00 (6:00 AM) Saturday
19:00 (7:00 PM) Saturday through 06:00 (6:00 AM) Sunday
19:00 (7:00 PM) Sunday through 06:00 (6:00 AM) Monday

Lane width reductions are permitted between each closure, for 7 days following each concrete placement to facilitate a wet cure, and at the Contractor's discretion up to 34 days as described in the 107 Special Provision. The Contractor shall note that additional restrictions apply to particular weekends.

Question: Can the existing wearing surfaces on the ramps be milled?

Response: Yes, the existing wearing surfaces on the ramps may be milled.

Question: Page 3 note 3 of the plans indicates either a steel tined or transverse sawcut finish is required. Does the Contractor have the option to utilize either of these finishes?

Response: Yes. The Contractor will have the option of a tined or saw cut wearing surface finish. The ramps are on a steep grade with superelevation so a stiff concrete mix will probably be required, which will likely create a narrow window in which to give the wearing surface a quality tine finish. This option could give the Contractor some flexibility as to when the concrete is finished.

Question: Will an Air Screed be allowed to finish the concrete wearing surface of the decks?

Response: Lightweight vibrating screeds may be used on slab structures where concrete placements are specified to be less than 16 feet in width and shall have the features as stated in section 502.14 of the Standard Specifications.

Consider this change and information prior to submitting your bid on March 16, 2011.

Sincerely,



Scott Bickford
Contracts & Specifications Engineer

SPECIAL PROVISION
SECTION 502
STRUCTURAL CONCRETE
(Concrete Wearing Surface)

The following shall be added to Sections:

502.11 Placing Concrete, Sub-Section G

Pre-Placement Concrete Wetting

After cleaning has been accepted, thoroughly wet the structural slab surface and all porous surfaces to be in contact with new concrete for at least 12 hours immediately prior to placement. Remove all standing water with oil-free compressed air, and protect the deck from drying, so the concrete remains in a saturated surface dry condition.

502.14 Finishing Concrete Surfaces

F. Concrete Wearing Surface

General

The concrete wearing surface shall have a transverse groove finish.

Terminate grooves within 6" to 12" of the vertical face of curb or parapet.

During the grooving operations, the Resident Engineer will verify, at random, that the minimum grooved depth is being achieved. Should the Resident Engineer determine the minimum groove depth is not being achieved; the Contractor shall stop grooving operations and make all adjustments necessary.

1. Steel Tining of Concrete Wearing Surface

Description A transverse steel tine finish applied to the concrete wearing surface.

Construction Requirements Transverse grooves shall be perpendicular to the centerline of the roadway using a single pass. All grooves shall be a rectangular shape conforming to the following dimensions:

Spacing: Center-to-Center $\frac{3}{4}$ " to 1 $\frac{1}{4}$ "

Width: $\frac{1}{8}$ " +/- $\frac{1}{16}$ "

Depth: $\frac{1}{4}$ " +/- $\frac{1}{16}$ "

**Brunswick-Topsham
Ramp B Bridge
Ramp C Bridge
Merrymeeting Bay Bridge
PIN 016689.00, 016690.00, & 016691.00
March 14, 2011**

2. Transverse Saw Cut Grooving of Concrete Wearing Surface

Description A transverse saw cut finish applied to the concrete wearing surface after the specified curing period has elapsed.

Materials A multi-bladed wet saw using circular saw blades shall be used. The Resident Engineer may allow the use of a single blade, circular saw equipment, where it is determined such equipment is necessary to complete the work as required. The equipment the Contractor proposes to use will be subject to the approval of the Resident Engineer, prior to use.

Construction Requirements Saw cutting may begin only after the specified curing period has elapsed. Transverse grooves shall be cut perpendicular to the centerline of the roadway using a single pass. Cut all grooves in a rectangular shape conforming to the following dimensions:

Spacing: Center-to-Center $\frac{3}{4}$ " to $1\frac{1}{4}$ "

Width: $\frac{1}{8}$ " +/- $\frac{1}{32}$ "

Depth: $\frac{1}{4}$ " +/- $\frac{1}{16}$ "

The Contractor will supply the Resident Engineer with two (2) accurate, easily readable gauges with which to verify groove depth. Deliver the gauges and applicable manufacturer's instructions for use, if necessary, no later than one week prior to the anticipated start of grooving operations.

The contractor shall continuously collect and properly dispose of all slurry or debris created by this activity.

502.18 Method of Measurement The quantity will not be measured directly for payment.

502.19 Basis of Payment Payment for finishing a concrete wearing surface with transverse grooves through any method will include, but not limited to, all materials, equipment and labor to perform the work and shall be considered incidental to item 502.29 Structural Concrete Wearing Surfaces.