



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

JOHN ELIAS BALDACCI  
GOVERNOR

DAVID A. COLE  
COMMISSIONER

November 21, 2008  
Subject: **Montsweag Bridge**  
State Pin No.015018.02  
**Amendment No. 2**

Dear Sir/Ms:

Make the following changes to the Bid Documents:

In the Plans, Plan Sheet 2 of 5, **ADD** the following notes to the GENERAL CONSTRUCTION NOTES. Make these changes in pen and ink.

12. A bond break between the pressure treated lumber and galvanized steel will be provided. i.e. ice and water shield, heavy roofing paper
13. A bond break between the stainless steel and galvanized steel will be provided. i.e. ice water shield, heavy roofing paper
14. The contractor is reminded that the low water elevation depicted on sheet 4 of 5 was observed on July 8<sup>th</sup> 2008 at 12:06PM. The elevations depicted on the General Plan sheet 3 of 5 are ground elevations.

The following questions have been received:

**Question:** The concrete bonding agents on the approved list all have minimum surface temperature requirements of 40°F. It will be cost prohibitive to heat the structure in question. What happens if the average temperature of the mass falls below the manufacturers recommendations?

**Response:** The use of the bonding agent shall be waived to ease construction. The substrate will need to be above 40°F, prior to the repair concrete placement. On plan sheet 4 of 5 the reinforcing steel spacing shall be reduced to 16 inches on center in both directions. The substrate shall be prepared per Special Provision 518 and rinsed with fresh water prior to placement and the surface shall be in a surface saturated dry condition.

**Question:** Are construction joints allowed?



PRINTED ON RECYCLED PAPER

**Response:** Horizontal joints will not be allowed. A maximum of four vertical construction joints will be allowed on each abutment.

**Question:** Whereas cofferdams will be installed on ledge, will seal concrete be allowed inside the cofferdam?

**Response:** Yes, Seal Concrete will be allowed in the cofferdam construction.

**Question:** In reference to the Amendment #1 question, "Is it the intent for the Contractor to perform all the work in the dry?" Normally for concrete repair work of this type we spray the concrete bonding agent onto the old concrete and rebar, then install forms over the prepared surface for concrete placement within 24 hours of the application of the bonding agent. However, in this case the bonding agent could be under 40 degree water for 20 hours (IE morning low tide to morning low tide) before the concrete is placed. From a quick review of MDOT pre approved bonding agent manufacture's data; this doesn't appear to be advised. Will this be acceptable or will cofferdams be required that allow the prepared surface to stay 100% dry and warm until concrete placement?

**Response:** The use of the bonding agent shall be waived to ease construction. The substrate will need to be above 40°F, prior to the repair concrete placement. On plan sheet 4 of 5 the reinforcing steel spacing shall be reduced to 16 inches on center in both directions. The substrate shall be prepared per Special Provision 518 and rinsed with fresh water prior to placement and the surface shall be in a surface saturated dry condition.

**Question:** Reference Plan Sheet 4 of 5. Seeing that the ½" x 5" full length plate is galvanized, why can't the rod, plate washer and nut for the tie anchors be galvanized as well?

**Response:** The intent of the stainless steel is to limit the direct routes for corrosion into the structure and securely fasten the stay in-place forms. The long term compatibility of pressure treated lumber and galvanized steel is also in question. Alternate anchorages will be considered.

**Question:** Is the Contractor going to be required to excavate down to ledge in concrete repair areas? If so, how will this work be paid?

**Response:** Yes, This excavation will be paid as incidental to the form installation costs for the selected stay in-place form alternate. The quantity of excavation to ledge is estimated to be five cubic yards.

**Question:** Is the Contractor going to be required to demolish concrete, drill and grout rebar or drill and grout ties below the low tide water elevation?

**Response:** Yes, The concrete removal, preparation, and rebar will be below low tide water elevation. Reference the ground elevations on the up stream end of the structure.

**Question:** To what extent should the Contractor be expected to demolish existing concrete? Should demolition be to sound concrete or to a maximum/minimum dimension?

**Response:** To the extent that the loose and delaminated concrete, gunite and brick have to be removed to the satisfaction of the engineer, which may not necessarily be to sound concrete. Reference Special Provision 518.

Consider these changes and information prior to submitting your bid on November 26, 2008.

Sincerely,

Handwritten signature of Scott Bickford in black ink, followed by the text "FOR".

Scott Bickford  
Contracts & Specifications Engineer