



JOHN ELIAS BALDACCI  
GOVERNOR

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

DAVID A. COLE  
COMMISSIONER

May 8, 2008  
Subject: **Norridgewock**  
Project No. BH-6900(01) X  
Pin No.006900.01  
**Amendment No. 3**

Dear Sir/Ms:

The following questions have been received:

**Question:** If the Contractor modifies the falsework scheme (Plan Sheet 54, Note 1), what will be the acceptance criteria for the results of the analysis?

**Response:** If the proposed location of the temporary piers or the Designer's Assumed Construction Sequence differs significantly from that proposed, the contractor shall be responsible for full redesign of the structure. This redesign shall include compilation of all intermediate and cumulative stresses of each component in place (Tie Girder, Floor beams, Arch End Connection, Arch Rib, Transverse Bracing, etc.) during all stages of construction, and shall include deflections and cambers. The analysis shall involve a 4 dimensional model of the proposed structure, and shall consider time dependent effects. Acceptance will be based on a demonstration that the redesign meets AASHTO LRFD design criteria for each step of the construction sequence, and that the appearance of the structure does not differ significantly from that proposed.

It is conceivable that the Contractor could propose a very minor change in the sequence that causes only minor changes in the behavior of the structure. However, it is difficult to quantify how any change will affect the computations without checking them. In any case, the Contractor shall be responsible for demonstrating that the proposed change does not adversely affect the design as proposed.

**Question:** Can you provide the Contractor with the dead load stress envelope from design or a run of service loads from which to develop an acceptable dead load envelope for construction?

**Response:** No, the effort to create design envelopes for all the conditions required for design would be great for a structure as complex as this one. The intent of having the contractor submit their detailed Construction Procedure to the Resident is to allow the Designer of Record to check that these means and methods will work within the construction loads assumed during design.



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Consider this information prior to submitting your bid on **May 21, 2008.**

Sincerely,

A handwritten signature in black ink, appearing to read "S. Bickford" followed by the letters "TOR" in a larger, bold font.

Scott Bickford

Contracts & Specifications Engineer