



Number: E-09-006  
Date: 12/18/2009

## ***ENGINEERING DIRECTIVE***

Frank Tramontozzi (signature on original)

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CHIEF ENGINEER

### **Air Content Tolerance for Cement Concrete**

Effective immediately, the Air Content tolerance for Cement Concrete shall be plus or minus 1.5% of the percentages required in the contract documents for all MassDOT Highway Division projects.

This tolerance is consistent with industry standards, ACI-318-05 Section 4.2.1.

All Cement Concrete for any MassDOT Highway Division project shall be tested in accordance with AASHTO T-152 and have Air Content within 1.5% of the required percentages contained in the contract to be deemed acceptable.