

**347 PORTLAND CEMENT CONCRETE – CLASS NS.
(REV 11-10-10) (FA 11-22-10) (7-11)**

SUBARTICLE 347-2-1 (Page 340) is deleted and the following substituted:

347-2.1 General: Certify that all materials used in concrete are from Department approved sources, and free from frozen or other detrimental matter.

Meet the following requirements:

Portland Cement.....	Section 921
Coarse Aggregate.....	Section 901
Fine Aggregate.....	Section 902
Water.....	Section 923
Chemical Admixtures	Section 924
Pozzolans and Slag	Section 929

SUBARTICLE 347-4.1 (Page 342) is deleted and the following substituted:

347-4.1 Concrete Mix Design: Before producing any concrete, submit the proposed mix design to the Engineer on a form provided by the Department. A similar form containing the same information may be used. Also submit three compressive strength test results tested in accordance with ASTM C 39 demonstrating the mix meets the minimum 28 day compressive strength requirement. The test results must be within twelve months of the submittal of the mix design. Use only concrete mix designs having prior approval of the Engineer.

Materials may be adjusted provided that the theoretical yield requirement of the approved mix design is met. Show all required original approved design mix data and batch adjustments and substituted material on the Department concrete delivery ticket. The Engineer may disqualify any concrete production facility for non-compliance with Specification requirements.