**MATERIALS FOR PORTLAND CEMENT CONCRETE:**

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|  (9-15-20) |  1000, 1024 |  SP10 R24 |

Revise the *2018* *Standard Specifications* as follows:

**Page 10-52, Article 1024-4, WATER, lines 3-6,** delete and replace with the following:

Test water from wells at all locations. Test public water supplies from all out of state locations and in the following counties: Beaufort, Bertie, Brunswick, Camden, Carteret, Chowan, Craven, Currituck, Dare, Gates, Hyde, New Hanover, Onslow, Pamlico, Pasquotank, Pender, Perquimans, Tyrell and Washington unless the Engineer waives the testing requirements.

**Page 10-52, Table 1024-2, PHYSICAL PROPERTIES OF WATER**, replace with the following:

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| **TABLE 1024-2****PHYSICAL PROPERTIES OF WATER** |
| **Property** | **Requirement** | **Test Method** |
| Compression Strength, minimum percent of control at 3 and 7 days | 90% | ASTM C1602 |
| Time of set, deviation from control | From 1:00 hr. earlier to 1:30 hr. later | ASTM C1602 |
| pH | 4.5 to 8.5 | ASTM D1293 \* |
| Chloride Ion Content, Max. | 250 ppm | ASTM D512 \* |
| Total Solids Content (Residue), Max. | 1,000 ppm |  SM 2540B \* |
| Resistivity, Min. | 0.500 kohm-cm | ASTM D1125 \* |

\*Denotes an alternate method is acceptable. Test method used shall be referenced in the test report.