

# EXPECTED IMPLEMENTATION JULY 2014

## **410 PRECAST CONCRETE BOX CULVERT.** **(REV 11-26-13) (FA 12-18-13) (7-14)**

ARTICLE 410-2 is deleted and the following is substituted:

### **410-2 Materials.**

Ensure that the materials used for the construction of precast box culverts have certification statements from each source, showing that they meet the applicable requirements of the following:

|                                          |                      |
|------------------------------------------|----------------------|
| Portland Cement Concrete .....           | Section 346          |
| Reinforcing Steel .....                  | Section 415          |
| Precast Concrete Drainage Products ..... | Section 449          |
| Wire for Site Cage Machines .....        | Section 931          |
| Coarse Aggregate* .....                  | Section 901          |
| Fine Aggregate* .....                    | Section 902          |
| Curing Materials for Concrete .....      | Section 925          |
| Materials For Concrete Repair .....      | Section 930          |
| Non-Shrink Grout .....                   | Section 934          |
| Joint Materials .....                    | ASTM C443, ASTM C877 |
| .....                                    | or ASTM C990         |
| Geotextile Fabrics .....                 | Section 985          |

\* The gradation requirements of aggregates are not applicable when using dry-cast concrete.

\*\* Use products listed on the Department's Qualified Products List (QPL).