



DEPARTMENT OF PERMITTING SERVICES

Marc Elrich  
County Executive

Rabbiah Sabbakhan  
Director

August 25, 2023

Dear Engineer/Developer:

Re: Updated Concrete Requirements for Stormwater Management Structures

Concrete used in the manufacture of stormwater management structures must be constructed to meet ACI 350 specifications. This applies to cast-in-place as well as precast and proprietary structures and includes all specialized concrete stormwater management structures, including risers, weirs, storage vaults, control structures and filter boxes. It does not apply to miscellaneous precast items such as standard manholes and inlets.

The following updated note must be placed on all plans that include concrete stormwater management structures:

**Concrete**

Concrete design shall meet the requirements of ACI 350, Environmental Engineering Concrete Structures, with freezing and thawing exposures. Concrete shall either be a Type 1L cement conforming to ASTM C-595, or type II or IIA cement. Concrete shall have a 28-day compressive strength of 4500 psi for cast in place and 5000 psi for pre-cast structures. Concrete shall also be in conformance with the latest edition and addenda of the MSHA Standards and Specifications for Construction and Materials.

---

If you have any questions, please contact me at 240-777-6338, or contact a DPS Water Resources Plan Reviewer.

Sincerely,

*Mark Etheridge*

Mark C. Etheridge, Manager  
Water Resources Section  
Division of Land Development Services