Designing Successful Stormwater Facilities with Maintenance and Enforcement in Mind

Wednesday, April 15, 2020
10:00 AM – 1:00 PM

Coordinator: Annita McCormick, Fairfax County

Speakers: Gayle England, Arlington County; Alan Schley, Fairfax County; Dan Schwartz, Northern Virginia Soil and Water Conservation District

- **Introduction**
  - Maintenance responsibilities and capabilities of large (municipal) post-construction stormwater maintenance organizations and
  - Maintenance responsibilities and capabilities of private (individual, business, HOA) post-construction stormwater maintenance organizations.

- **Stormwater Control Overview**

- **Break-out Group Activity: Plan Review**
  - Address, maintenance issues exemplified in the development plan review exercise,
    - Typical issues encountered with facility design (case studies involving facilities that failed and became maintenance headaches, lessons learned).
  - Discuss current/potential solutions.

- **Designing with Maintenance In Mind**

- **Infiltration Testing and Condition Surveys**
  - Discuss bioretention and permeable paving inspection regimes in an urban area,
    - Assessing infiltration, construction adequacy, and maintenance conditions of bioretention facilities, and
    - Assessing infiltration and general maintenance of permeable paving.

- **Designing with Enforcement In Mind**
  - Explore the struggles that homeowners and enforcement officials face when trying to maintain or reestablish private stormwater facilities with daunting design issues.
  - Showcase how managers structure private stormwater programs and what site elements are critical to maintenance and enforcement.
  - Share case studies involving facilities that failed and became maintenance headaches (lessons learned).
  - Discuss current/potential solutions.