

Shannon Run Stormwater Management Facility Retrofit

Background:

The Shannon Run stormwater management facility located within the South Branch Patapsco watershed in the Town of Sykesville off of Ashbrook Court was constructed in the early 1990s.

Scope of Work:

The Carroll County Bureau of Resource Management, in partnership with the Town of Sykesville, hired an engineer to analyze the site and design a facility to meet all current State and County stormwater management standards. The goal was to make the facility easier to maintain and meet Water Quality Volume, Channel Protection Volume, and Overbank Flood Protection Volume requirements. It was determined that the facility would remain a wet facility for neighborhood aesthetics. Slopes and access were improved to allow for better maintenance. Two small extended detention facilities within the pond failed and were eliminated with this project. A filter diaphragm was added to the dam to bring it up to current requirements and reduce risk.

Carroll Land Services, Inc. was awarded the design contract in December of 2015.

Sequence of Construction:

Construction of the facility was awarded to W.F. Delauter & Sons, Inc. in November of 2018. All necessary Federal and State permits were obtained for the project. The project wrapped up in January 2020. Increased quantity management of channel forming storm events is leading to healing of the downstream water course. The property on which the facility is located is owned and maintained by the Town of Sykesville.

The Bureau of Resource Management was awarded \$400,000 from the Department of Natural Resources Chesapeake & Atlantic Coastal Bays Trust Fund towards construction of this project.

Project Details:

Watershed:	South Branch Patapsco
Drainage Area:	93.43 acres
Impervious Surface Treated:	53.85 acres
Costs: Engineering	\$ 71,678.75
Construction	\$904,170.34
Time Frame:	5 years 2 months

Submitted By:

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