

Twin Ridge Stormwater Management Facility Retrofit

Background:

The Twin Ridge subdivision was constructed in the mid 1990's on the Frederick County side of Mount Airy. Stormwater management was provided in part by a two-pool facility located between Deer Hollow Drive and Meadowgreen Drive. Both pools were intended to be infiltration basins, but the upper basin historically maintained a wet pool. The two existing facilities were converted into a shallow wetland which treats 77 acres of drainage area, 20 of which are impervious in the Lower Monocacy Watershed.

Scope of Work:

The Bureau of Resource Management in partnership with the Town of Mount Airy retrofitted two existing facilities into a new shallow wetland to achieve water quality treatment, ten year management, and channel protection.

CLSI, Inc. was awarded the design contract in January of 2017.

Sequence of Construction:

Construction of the facility was awarded to Hamilton Site Construction Company, Inc. in June of 2020. All necessary Federal and State permits were obtained for the project.

The project wrapped up in Summer of 2021.

Carroll County Bureau of Resource Management provided project management for the Town of Mount Airy, including putting the project out to bid for design and construction. The project was fully funded by the Town of Mount Airy to address NPDES permit requirements on the Frederick County side of Mount Airy.

Project Details:

Watershed:	Lower Monocacy Watershed
Drainage Area:	77 acres
Impervious Surface Treated:	20 acres
Costs: Engineering	\$ 84,834.31
Construction	\$ 641,690.00
Time Frame:	4.5 years

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