

Stone Manor

Background:

The original stormwater management facility in Stone Manor was constructed in the mid-1990s and located at the end of Millstone Court in Sykesville. Inspections of the facility, located on County-owned property, showed that it was in need of maintenance. The Bureau of Resource Management decided it was a good time to perform a facility retrofit to provide improved stormwater management and water quality treatment. The facility discharges to an un-named tributary to North Branch Patapsco River in the Liberty Reservoir Watershed.

Scope of Work:

The existing wet pond was retrofitted to a submerged gravel wetland stormwater management facility. The drainage area to the facility is 19.37 acres, 5.63 acres of which are impervious.

CLSI was awarded the design contract in January of 2020.

Sequence of Construction:

The submerged gravel wetland stormwater management facility was constructed and seeded with a wetland mix. The roots of the plants will extend into a submerged gravel wetland. The water in the facility is designed to remain 6 inches below the finished grade with a 2-foot pool in the gravel below the plants. The plants are a critical part of the facility and will help to remove nutrients and other pollutants before the stormwater is discharged into the receiving stream.

Hamilton Site Construction, Inc. was awarded the construction contract in February of 2022 and construction was completed in November 2022.

Project Details:

Watershed:	Liberty Reservoir
Drainage Area:	19.37 acres
Impervious Surface Treated:	5.63 acres
Costs: Engineering	\$ 44,341.25
Construction	\$ 271,796.63
Time Frame:	3 years

Submitted By:

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