

Central Maryland Stormwater Management Facility Retrofit

Background:

The Central Maryland Service and Distribution Center is an industrial and commercial development constructed in the mid 1980s off of Klees Mill Road in Sykesville. During the creation of the development, a retention basin was constructed for stormwater management and fire protection. As development of the individual lots proceeded, some additional water quality devices were put in place. The existing retention basin has a 15 foot high dam with a corrugated metal rise and barrel.

Scope of Work:

The Carroll County Bureau of Resource Management hired an engineer to analyze the site and design a facility to meet all current State and County stormwater management standards. The facility will remain a wet pond and continue to provide fire protection for the subdivision. The facility will be designed to ensure that the 10-year storm will be detained so as to meet meadow condition discharge rates.

Carroll Land Services, Inc. was awarded the design contract in December of 2016.

Sequence of Construction:

Construction of the facility was awarded to White Pine in January of 2018. All necessary Federal and State permits were obtained for the project. The project wrapped up in Spring 2019. The property on which the facility is located is owned and maintained by CMS & DC Maintenance Association, Inc.

The retrofit diverted the stream into the facility through a step pool conveyance system. As part of this project, a dry hydrant was installed to serve as fire protection for the Industrial Park.

Project Details:

Watershed:	Liberty Reservoir
Drainage Area:	93 acres
Impervious Surface Treated:	40 acres
Costs: Engineering	\$ 64,815.00
Construction	\$562,650.38
Time Frame:	30 months

Submitted By:

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