

Whispering Valley Stormwater Management Facility Retrofit

Background:

Whispering Valley subdivision was constructed in the early 1980's near MD 30 and Michelle Drive in Manchester. Stormwater management was provided for part of the subdivision with a detention basin located near the intersection of Michelle Drive and MD 30. The drainage area to the facility is approximately 89 acres, of which, approximately 20.9 acres is impervious. There was no water quality management being performed in the original facility.

Scope of Work:

The Bureau of Resource Management in partnership with the Town of Manchester decided on a surface sand filter design due to the project's location in a Use III watershed. Surface sand filters reduce the thermal impact to the Use III watershed. Site topography required two surface sand filters to replace the original detention basin and provide water quality treatment and downstream channel protection.

Carroll Land Services, Inc. was awarded the design contract in January of 2016.
RK&K was awarded a contract to identify underground utility locations.

Sequence of Construction:

Construction of the facility was awarded to White Pine Construction in July of 2019. All necessary Federal and State permits were obtained for the project. The project wrapped up in the Summer of 2020.

The Bureau of Resource Management was awarded \$375,000 from the Department of Natural Resources for the construction of this facility.

Project Details:

Watershed:	Prettyboy Reservoir
Drainage Area:	89 acres
Impervious Surface Treated:	20.9 acres
Costs: Engineering	\$132,969.00
Construction	\$774,678.16
Land Acquisition	\$ 27,545.00
Time Frame:	4 years 7 months

Submitted By:

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