

Marriott Wood I Stormwater Management Facility Retrofit

Background:

The Marriott Wood I stormwater management facility is an existing facility located off of Marriottsville Road in Eldersburg. Access to the facility was constructed through an open space area that is owned by the Homeowners Association. The facility was not functioning adequately for stormwater management control in the subdivision. Because of the condition of the pond, the County wanted to retrofit the facility to bring it up to current standards thereby ensuring that the facility provides stormwater control and can be easily maintained.

Scope of Work:

The site was analyzed by CLSI to determine if infiltration would be feasible. It was determined that the county's standard infiltration design would work well at this site. In order to gain access to the facility for construction an access road was first constructed to move equipment into and out of the site. The design for the facility included a 30" layer of #57 stone with 6" HDPE type "SP" pipe laying on top to draw any excess water off the surface. The pipe was topped with 6" of #8 stone and then finished with 12" of a sand-soil mixture. All of the slopes were designed at 3:1 to allow efficient machine mowing. The facility was designed to meet and exceed all current county and state stormwater management regulations. Construction of the pond was done in a very efficient manner.

Sequence of Construction:

The homeowners around the facility were contacted about the retrofit in November of 2007. At that time staff members scheduled to meet with the adjoining property owners to discuss the proposed retrofit. Upon completion of the design a meeting was held with the homeowners to review and answer any questions. The facility went out to bid on July 16, 2008 with bids due back July 30, 2008.

The job was awarded to White Pine Construction and was slated to begin August of 2008. The contractor began working August 18, 2008. The contractor completed the project in October, but had to return in early November to repair a few ruts in the bottom of the structure and enlarge the stilling basin. All disturbed areas were re-stabilized. The project received a final sediment control inspection on November 13, 2008. The as-built was accepted on December 4, 2008.

Project Details:

Watershed:	Liberty Reservoir
Drainage Area:	24.13 acres
Impervious Surface Treated:	4.73 acres
Costs: Engineering	\$ 22,518.00
Construction	\$131,908.75
Time Frame:	12 Months

Submitted By:

Janet Doody, Watershed Management Specialist









