

# Marriott Wood II Stormwater Management Facility Retrofit

## **Background:**

The Marriott Wood II stormwater management facility is an existing facility located off of Marriottsville Road in Eldersburg. Access to the facility is off the right-of-way to the County Sanitary Sewer Treatment Plant. 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. This design 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. The facility went out to bid on June 3, 2008 with bids due back June 13, 2008.

The job was awarded to Stambaugh's, Inc. and was slated to begin July of 2008. The contractor began working August 1, 2008. The contractor completed the project by the end of August, but had to return in early September to remove the silt fence and stabilize the area which was disturbed. The project received a final sediment control inspection on September 11, 2008. The as-built was accepted on September 18, 2008. Landscaping was planted on October 18, 2008 to restore vegetation that was removed during construction.

## **Project Details:**

Watershed:	Liberty Reservoir
Drainage Area:	11.62 acres
Impervious Surface Treated:	1.92 acres
Costs: Engineering	\$ 21,983.00
Construction	\$47,485.00
Time Frame:	10 Months

## **Submitted By:**

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