

Collins Estates Stormwater Management Facility Retrofit

Background:

The Collins Estates stormwater management facility is an existing facility located off of Bartholow Road and Collins Avenue in Eldersburg. Access to the facility was constructed off of Wallace Court. The facility was not providing adequate quantity or quality control of the subdivision runoff. 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 filter 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 an efficient man-

Sequence of Construction:

The homeowners around the facility were contacted about the retrofit in August of 2008. At that time staff members met with the adjoining property owners to discuss the proposed retrofit. The facility went out to bid on December 5, 2008 with bids due back December 17, 2008.

The job was awarded to Stambaugh's, Inc. and was slated to begin January of 2009. The contractor began working February of 2009. The contractor completed the project at the end of March, but had to return in early June to remove the silt fence and stabilize an area which was disturbed. The project received a final sediment control inspection on August 3, 2009. The as-built was accepted on June 8, 2009.

Project Details:

Watershed:	Liberty Reservoir
Drainage Area:	32.68
Impervious Surface Treated:	6.36 acres
Costs: Engineering/Construction	\$22,255.80/\$81,157.21

Submitted By:

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