

Hoff Stormwater Management Facility

Background:

The Hoff stormwater management facility is a new facility constructed in an agricultural field on the Hoff property located off of Bethel Road in Finksburg. The construction of the facility was implemented to address flooding and run-off issues in the West Branch of the Patapsco River Watershed. Over the years damage has been done to both private and public property from the uncontrolled run-off. This facility was constructed to current standards thereby ensuring that the facility provides stormwater control and the field can continue to be used for the agricultural operation. This facility is the third facility to be built in this watershed to control run-off and alleviate flooding.

Scope of Work:

The site was analyzed by Carroll Land Service to determine if infiltration would be feasible. It was determined that the county's standard infiltration design would work well at this site. A temporary construction easement was established to gain access to the property for design and construction. The design for the facility included construction of the dam and emergency spillway, followed by the construction of the recharge area which included 36" layer of #8 stone with 8" HDPE type "SP" pipe laying on top to draw any excess water off the surface. The pipe was topped with 20" of #8 stone and then finished with 18" of a sand-soil mixture. All of the slopes were designed at 4:1 to allow efficient agricultural operation around the facility. 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 manner.

Sequence of Construction:

The landowners in the watershed were contacted about the proposed watershed restoration, at that time staff members meet with the property owners in the watershed to discuss the proposed projects. Several meetings were held with the Hoff's to discuss the design of the facility. The facility went out to bid on July 30, 2009 with bids due back by October 12, 2009.

The third phase of the job was awarded to Thomas, Bennett and Hunter and was slated to begin the Spring of 2010. The contractor began working in May. The contractor completed the project in November 2010, but had to return in early Spring to repair a few ruts along the field road. All disturbed areas were stabilized. The project received a final sediment control inspection on May 26, 2011. The as-built was accepted on December 15, 2010.

Project Details:

Watershed:	Liberty Reservoir
Drainage Area:	101.8 acres
Impervious Surface Treated:	12.98 acres
Costs: Engineering/Construction	\$ 56,272.00/ \$ 293,626.00
Land Acquisition	\$ 1,500,000.00
Time Frame:	31 Months

Submitted By:

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