

# Miller-Watts Stormwater Management Facility

## **Background:**

The Miller Watts Stormwater Management Facility is located at 3150 Baltimore Boulevard in Finksburg. The existing wet pond was targeted because of its current condition and the opportunity to provide stormwater management in the heavily developed drainage area. Due to the age and current condition, the County wanted to retrofit the existing facility to meet current stormwater management standards thereby ensuring that the facility would provide stormwater management for the entire drainage area and the facility could be easily maintained.

## **Scope of Work:**

The site was analyzed by Carroll Land Service to determine if the facility was capturing the intended drainage area. With the proximity of the construction to local businesses, all necessary work was coordinated to reduce any inconveniences to their daily activities. In order to achieve the required volumes for stormwater management treatment it was necessary to utilize three retaining walls as part of the design. All slopes were graded to 3:1 or greater to allow efficient machine mowing. A new barrel pipe was installed through the embankment and the existing riser was modified. All existing storm drains were extended to discharge below the wet pool elevation. An existing open storm drain system on the adjacent Dede World property was closed and tied directed into the pond for treatment. A swale with inlets was constructed on the Carroll Scrap LLC. property to convey drainage to the facility in a non-erosive manner. When excavating the bottom of the facility rock was encountered and had to be removed by blasting. The facility was designed to meet and exceed all current county and state stormwater management regulations.

## **Sequence of Construction:**

The owners of the facility were contacted about the retrofit in June of 2011. Staff met with the property owners to discuss the proposed project. With the property owners on board the County moved forward through the design process. The facility went out to bid on August 28, 2015 with bids due back September 23, 2015. The County received \$600,000 from the Department of Natural Resources Chesapeake and Atlantic Coastal Bays Trust Fund to go towards funding the construction of this retrofit.

The job was awarded to CJ Miller, LLC., a pre-construction meeting was held in November of 2015. The contractor began working in February of 2016. The contractor completed the project in September of 2016. This project received its grading completion certificate on October 28, 2016. The as-built was accepted by the County on March 1, 2017.

## **Project Details:**

Watershed:	Liberty Reservoir
Drainage Area:	39.65 acres
Impervious Surface Treated:	21.18 acres
Costs: Engineering	\$ 64,235.00
Construction	\$ 1,213,344.84
Time Frame:	68 Months

## **Submitted By:**

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