

Friendship Overlook/Diamond Hills Section Two Stormwater Management Facility Retrofit

Background:

The Friendship Overlook/Diamond Hills Section Two stormwater management facilities were existing facilities located off of Gist Road in Westminster. These facilities were targeted as an opportunity to consolidate two facilities into one, while improving the condition of the Friendship Overlook Facility, and bringing it up to current county and state stormwater management standards.

Scope of Work:

The drainage areas to the two facilities were analyzed by Carroll Land Service. A series of manholes and storm drains were sized and installed to convey the flow from the Diamond Hills Section Two facility to the Friendship Overlook facility through the HOA open space parcel. The Diamond Hill Section Two facility was then filled in as part of this project. The Friendship Overlook facility was graded to provide 3:1 slopes along with a safety bench. The bottom of the facility was excavated to the necessary elevation to allow for the HDPE type "SP" pipe to lay on top and draw any excess water off the surface. The pipe was topped with 18" of a 4:1:1 sand/soil/green wood chip mixture. All of the slopes were designed at 3:1 or greater to allow efficient machine mowing. A new emergency spillway was graded in and lined with 19" of Class I rip-rap, and packed with 3" of topsoil. The facility was designed to meet and exceed all current county and state stormwater management regulations.

Sequence of Construction:

The homeowners around the facility were contacted about the retrofit in April of 2011. At that time staff members met with adjoining property owners and HOA representatives to discuss the proposed retrofit. The county worked with the HOA to revise the plat and obtain access to the facility from Gist Road. The facility went out to bid on June of 2014 with bids due back July 24, 2013.

The job was awarded to Stambaugh's, Inc. and was slated to begin over the winter. The contractor began working in January of 2014, but with inclement weather the progress was slow. The contractor completed the project in May of 2014, but had to wait until a two inch stand of grass was established in June before it received its final grading and sediment control inspection. The grading completion certificate was issued on June 19, 2014, and the as-built was accepted by the County on June 27, 2014.

Project Details:

Watershed:	Liberty Reservoir
Drainage Area:	51.8 acres
Impervious Surface Treated:	16.26 acres
Costs: Engineering	\$ 43,843.00
Construction	\$ 470,373.49
Time Frame:	38 Months

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