

MD 404 STORMWATER MANAGEMENT RETROFIT AT CHOPTANK RIVER

Caroline County, MD



WBCM provided the design of a stormwater management facility to provide water quality management within the Choptank River Watershed. A wet pond was designed to treat 16-acres of previously untreated runoff from MD 404 and some offsite residential and commercial properties. WBCM provided erosion and sediment control design and hydrologic analysis prior to discharging into the Choptank River. In addition to obtaining a sediment and stormwater permit from the Maryland State Highway Administration, WBCM prepared a Joint Federal/State permit and prepared documents to procure Critical Area Commission approval. During the design of the facility it was discovered that an existing channel that was to serve as the outfall of the stormwater facility was degraded. The degradation was a result of an existing farm pond that had been purposely breached, thereby creating a gully that was continuously eroding. WBCM designed a step pool system (an A channel using Rosgen Classification) for approximately 200-feet to provide a stable on-fall from the newly constructed stormwater facility.

Client: Maryland State Highway Administration

Total Construction Cost: \$460,000

Project Size: N/A

WBCM Services: Stormwater Management,
Hydrology/Hydraulics, and Permitting