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# *County Project Of The Year*

## **Devil's Backbone Dam Rehabilitation**

# **Washington County**



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## **Devil's Backbone Dam Rehabilitation**

**County: Washington County**  
**Engineer: Wallace Montgomery**  
**Contractor: C. William Hetzer**

# Devil's Backbone Park Dam Rehabilitation



**COUNTY ENGINEERS  
ASSOCIATION OF  
MARYLAND  
FALL CONFERENCE 2012**

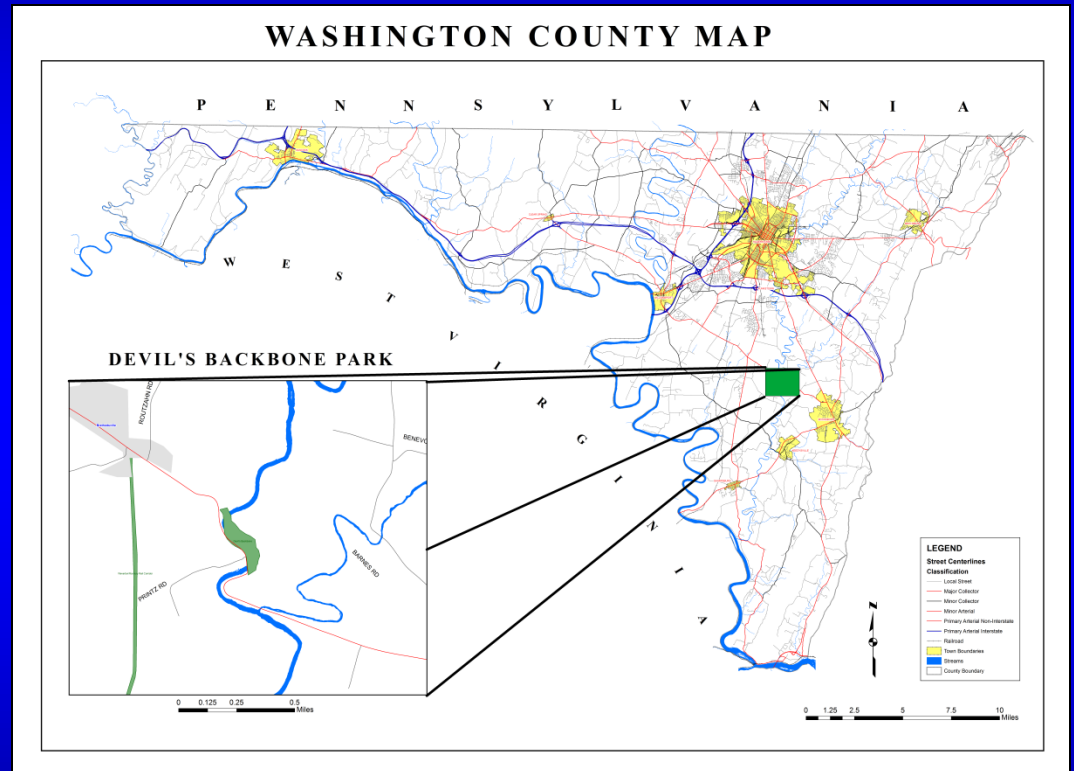
**JIM PLUMMER  
PROJECT MANAGER  
DIVISION OF PUBLIC WORKS  
ENGINEERING AND  
CONSTRUCTION**



**Washington County Division of Public Works**

# Project Overview

- Located on the Antietam Creek
- Devil's Backbone Dam is one of the few remaining original masonry dams from the early 19<sup>th</sup> century
- Used in the operation of a large commercial flour mill and later for electric generation; now part of the Devil's Backbone County Park



# Project Need & History

- In the 1990s, the dam began to show signs of deterioration and missing stones were discovered
- Three options were considered
  - Rehabilitation
  - Partial Dam Breach
  - Complete Removal
- In 2010, decision was made to rehabilitate the dam
- Design by Wallace, Montgomery, and Associates
- Project Management by Washington County DPW
- Construction completed by C. William Hetzer



# Construction 1<sup>st</sup> Phase



- Install siphons and stream diversion



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# Construction 1<sup>st</sup> Phase



- Partnered with SHA to stabilize the streambank along MD 68 with imbricated riprap upstream of the dam



# Construction 1<sup>st</sup> Phase



- Rehabilitated 1<sup>st</sup> half of dam



# Construction 2<sup>nd</sup> Phase



- Rehabilitated 2<sup>nd</sup> half of dam and completed other park improvements



# Completed Project



Thank You



Washington County Division of Public Works