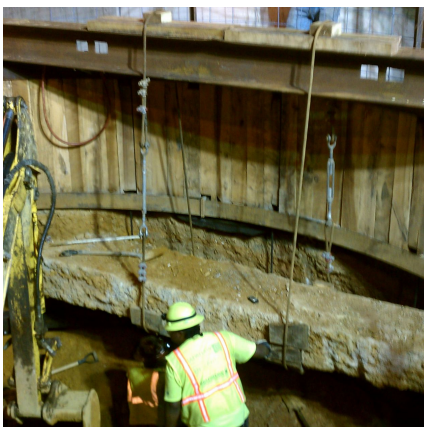


## McMillian Stormwater Storage Washington D.C.,



### PROJECT OVERVIEW AND CHALLENGES

Bradshaw Construction completed two shafts and a hand mine liner plate tunnel as part of a storm water overflow project in northwest Washington DC. As a result of flooding in the area, DC Water decided to convert a more than 100 year old sand filtration chamber into a storm water overflow basin. Bradshaw was subcontracted to install 28 vertical feet of 25 foot diameter shaft while working from only one traffic lane of a busy city street. 32 feet of 72 inch liner plate tunnel was installed by hand mining from the 25 foot diameter shaft built for construction of a cast-in-place diversion structure by others. Bradshaw installed 12 vertical feet of 7 foot liner plate shaft inside the filtration chamber in order to complete the tie-in. Due to the heavily populated urban residential area the project work hours were severely restricted to only a few hours each night.



### PROJECT INFORMATION - 529

**OWNER:**

District of Columbia  
Water & Sewer Authority  
Kevin Williams  
202-878-2333  
kevin.williams@dewater.com

**ENGINEER:**

McKissack & McKissack  
Mark Babbitt  
202-202-2145

**CONTRACTOR:**

PC Construction

**COMPLETION DATE:**

9/1/2013

**GEOLOGY:**

Clay, Sand

**EXCAVATION METHOD:**

Mini Excavator

**MINING DIMENSIONS:**

25'x28' deep, 18'x'46' deep, & (2)  
7'x12'deep

**FINAL LINING:**

Liner Plate & Rib Lagging

**FOR MORE INFORMATION:**

Michael Wanhatalo, Project Manager  
410-970-8300  
mwanhatalo@bradshawcc.com  
Refer to Project 529