

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@dcwater.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:

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Refer to Project 529