Project Profile: HAND TUNNELING

BRADSHAW CONSTRUCTION CORPORATION
TUNNELING SPECIALISTS

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:
Hand Mine

MINING DIMENSIONS:
35' x 72"Ø

FINAL LINING:
48" Fiberglass Reinforced Pipe

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