Project Profile: TBM TUNNELING

BRADSHAW CONSTRUCTION CORPORATION
TUNNELING SPECIALISTS

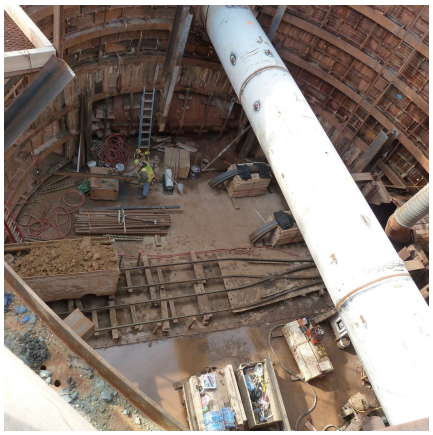
DCW M Street Diversion Sewers
Washington D.C.,



PROJECT OVERVIEW AND CHALLENGES

Bradshaw completed installation of 1,313 linear feet of 144 inch, and 1,014 liner feet of 72 inch rib and board tunnel for 110 inch and 48 inch fiberglass reinforced sewer. An Akkerman BS-120 digger shield and an Akkerman WM-60 TBM were used to excavate the tunnels. The work was in a busy urban area adjacent to the Anacostia River and a CSX Railroad. The tunnel was excavated through clay and fill with the presence of boulders.

Additional challenges of the project included a launch shaft with a live sewer running through it, encountering an old, unidentified sewer, and soft, wet ground conditions prone to settlement and requiring ground modification.





PROJECT INFORMATION - 519

OWNER:
DC Water & Sewer Authority
Carlo Enciso
(202) 787-2029
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ENGINEER:
CDM
William Taylor
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CONTRACTOR:
Corman Construction

COMPLETION DATE:
5/30/2014

GEOLOGY:
Plastic Clay, Fill & Boulders

EXCAVATION METHOD:
Akkerman BS-120 Shield & WM-60 TBM

MINING DIMENSIONS:
1,313' x 144 Ø" & 1,014' x 73.5"Ø

FINAL LINING:
48" & 110" Fiber Reinforced Pipe

FOR MORE INFORMATION:
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Refer to Project 519