Project Profile: MICROTUNNELING

BRADSHAW CONSTRUCTION CORPORATION
TUNNELING SPECIALISTS

Fort Meade Reclaimed Water
Laurel, MD



PROJECT OVERVIEW AND CHALLENGES

Bradshaw Construction installed a) 240 linear feet of 60 inch steel casing to house twin 20 inch ductile iron water lines under MD Route 32 and b) 410 linear feet of 43 inch steel casing for a 24 inch ductile iron water line under the Little Patuxent River as part of the Fort Meade Reclaimed Water Project. The casings were jacked behind a microtunnel boring machine in soft ground conditions below the water table. The work included installing steel rib and liner plate supported launch and receiving shafts for the MD-32 crossing and a launch shaft for the river crossing.





PROJECT INFORMATION - 533

OWNER:
Howard County
Department of Public Works, Bureau of Utilities
Daniel Davis
410-313-2040
dlieu@howardcountymd.gov

ENGINEER:
Whiteman, Requardt, & Associates, LLP
410-235-345

CONTRACTOR:
Ulliman Schutte Construction, LLC

COMPLETION DATE:
4/5/2014

GEOLOGY:
Wet Sand, Clay, Trace Gravel

EXCAVATION METHOD:
Herrenknecht AVN-800 MTBM
Herrenknecht AVN-1200 MTBM

MINING DIMENSIONS:
404' x 43" & 227' x 60" Ø

FINAL LINING:
24" Ductile Iron Pipe
20" Ductile Iron Pipe (twin)

FOR MORE INFORMATION:
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Refer to Project 533