Project Profile: MICROTUNNELING

BRADSHAW CONSTRUCTION CORPORATION
TUNNELING SPECIALISTS

Little Patuxent Parallel Interceptor Sewers 2
Columbia, MD



PROJECT OVERVIEW AND CHALLENGES

This project involved the construction of two tunnels, totaling 450'. The tunnels passed under Maryland State and Howard County roads on three phases of Howard County's Little Patuxent Parallel Interceptor project. 59" of jacked steel casing was used to install 42" fiberglass reinforced carrier pipe for a gravity sewer. Subsurface conditions ranged from alluvial deposits of gravel and cobbles to residual soils to mixed face conditions to 25,000+ psi rock. The tunnels were below the groundwater table.





PROJECT INFORMATION - 487

OWNER:
Howard County
Wes Daub, Engineer
410.313.6194

ENGINEER:
PHR&A
Grahame Lake
(410) 997-8900

CONTRACTOR:
American Infrastructure

COMPLETION DATE:
3/5/2010

GEOLOGY:
Residual Soils, Alluvium, Boulders, Cobbles, Gravel

EXCAVATION METHOD:
Herrenknecht AVN-1200 MTBM

MINING DIMENSIONS:
275'x 59" & 175' x 59" Ø

FINAL LINING:
42" Fiber Reinforced Pipe

FOR MORE INFORMATION:
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Refer to Project 487