Project Profile: MICROTUNNELING

BRADSHAW CONSTRUCTION CORPORATION
TUNNELING SPECIALISTS

Little Patuxent Parallel Interceptor Sewers 9
Columbia, MD



PROJECT OVERVIEW AND CHALLENGES

This project involved the construction of six tunnels, totaling 1,600'. The tunnels passed under Maryland State and Howard County roads on three phases of Howard County's Little Patuxent Parallel Interceptor project. 60" of jacked steel casing was used to install 36 to 42" of 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. All of the tunnels were below the groundwater table.





PROJECT INFORMATION - 501

OWNER:
Howard County
9250 Bendix Road
Columbia, MD 21045
Wes Daub, Engineer
410.313.6194

ENGINEER:
Dewberry and Davis
3106 Lord Baltimore Drive #110
Baltimore, MD 21244
Robert Burns, 410.265.9500

CONTRACTOR:
American Infrastructure

COMPLETION DATE:
1/31/2011

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

EXCAVATION METHOD:
Herrenknecht MTBM 60" Ø

MINING DIMENSIONS:
246' & 268' x 60" Ø

FINAL LINING:
36" & 42" Fiber Reinforced Pipe

FOR MORE INFORMATION:
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Refer to Project 501