

Upper Jones Falls Interceptor Sewer - Phase 2 Baltimore, MD



PROJECT OVERVIEW AND CHALLENGES

As part of a 6,000 foot microtunnel sewer project, Bradshaw installed a 40' wide x 70' long x 35' deep elliptical shaft over an existing 42" sewer and manhole. This shaft was large enough to allow a gravity by-pass of the existing 42" sewer so a unique cross-over structure could be constructed to tie this existing sewer into the new microtunneled 48" sewer. The shaft was excavated by the NATM (New Austrian Tunneling Method) which uses reinforcing steel and sprayed shotcrete to support the shaft walls. Ground conditions were silt and sand over weathered rock. The challenges on the job were protecting the existing sewer, managing flood level flows and constructing the shaft within feet of Interstate I-83.





PROJECT INFORMATION - 434

OWNER:

City of Baltimore Department of Public Works Jonathan Scott 410.396.3671 jonathan.scott@baltimorecity.gov

ENGINEER:

Patton, Harris, and Rust Associates Graeme Lake, PE 410.997.8900 graeme.lake@phra.com

CONTRACTOR: Bradshaw Construction Corporation

CONTRACT VALUE: \$23,000,000

COMPLETION DATE: 6/30/2007

GEOLOGY: Silts and Sands over Weathered Rock

EXCAVATION METHOD: NATM - Sprayed Shotcrete

MINING DIMENSIONS: 40' x 70' x 35VF

FINAL LINING: 48" Polycrete Pipe & Manholes

FOR MORE INFORMATION:

Todd Brown, Project Manager 410.970.8300 tbrown@bradshawcc.com Refer to Project 434