Project Profile: MICROTUNNELING

BRADSHAW CONSTRUCTION CORPORATION
TUNNELING SPECIALISTS

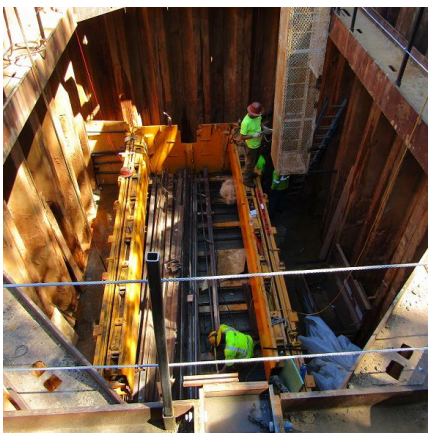
Coakley Terrace II Transmission Water Main
Hyattsville, MD



PROJECT OVERVIEW AND CHALLENGES

Bradshaw installed 830 ft of 43 inch steel casing in a single drive under the BaltimoreWashington Parkway (I-295) for a 16-inch DIP water transmission main. The Washington Suburban Sanitary Commission (Owner) contracted KCI Technologies (Engineer) and Sagres Construction (General Contractor) to construct the project, with Bradshaw being selected as the microtunnel subcontractor. Tunnel depths ranged from 8 to 35 ft below the surface. The tunnel was under the water table and through loose to dense silty sands and periodic clay. Bradshaw first installed the 30'x16'x16' deep steel sheeted launch shaft. Challenges included passing under existing 48-inch storm drains and an existing 12-inch gas line with minimal clearance (18"), performing the work in close proximity to overhead electrical lines (20'), and completing a long single drive of the 43” diameter casing.





PROJECT INFORMATION - 563

OWNER:
The Washington Suburban Sanitary Commission
April Wilt
301-206-4307
april.wilt@wsscwater.com

ENGINEER:
KCI Technologies, Inc.
410-316-7800

CONTRACTOR:
Sagres Construction

COMPLETION DATE:
8/9/2017

GEOLOGY:
Silty Sand, Trace Clay, Trace Gravel

EXCAVATION METHOD:
Herrenknecht AVN-800 MTBM

MINING DIMENSIONS:
830' x 43"Ø

FINAL LINING:
16" Ductile Iron Pipe

FOR MORE INFORMATION:
Jordan Bradshaw, Project Manager
410-970-8300
jordan.bradshaw@bradshawcc.com
Refer to Project 563