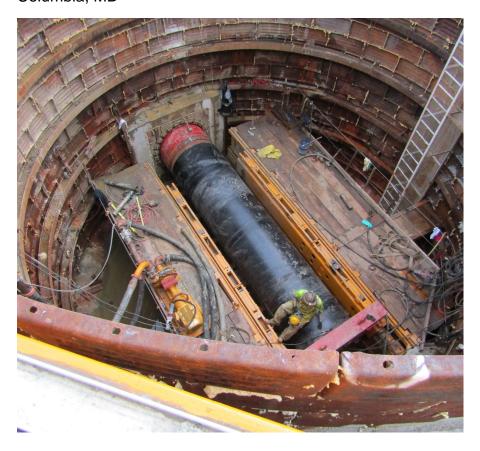
Project Profile: MICROTUNNELING



U.S. Route 29 Water Transmission Main Columbia, MD



PROJECT OVERVIEW AND CHALLENGES

Bradshaw recently completed the installation of 470 linear feet of 60 inch steel casing under U.S. Route 29 for a 36 inch water transmission main. Tunnel depths ranged from 6 to 30 feet below the surface, with the alignment passing beneath the water table through dense silty sands and partially weathered rock. Bradshaw constructed a 32 foot diameter, 27 foot deep steel rib-and-liner plate launch shaft to facilitate tunneling activities, and the MTBM was recovered out of a trench box on the far side of the highway. The access shaft was constructed in a potential flood zone within 10 ft of active sanitary sewer and water lines, and within 50 feet of the Little Patuxent River.





PROJECT INFORMATION - 562

OWNER:

Howard County
Department of Public Works
Robert Bowins
410-313-6375
rbowins@howardcountymd.gov

ENGINEER:

O'Brien & Gere Louis Ragozzino 410-771-3005 Louis.Ragozzino@obg.com

CONTRACTOR:

Marona Construction Company

COMPLETION DATE:

11/18/2016

GEOLOGY:

Silty Sands, Partially Weathered Rock

EXCAVATION METHOD:

Herrenknecht AVN-1200 MTBM

MINING DIMENSIONS:

469' x 60"Ø

FINAL LINING:

36" Prestressed Concrete Cylinder Pipe

FOR MORE INFORMATION:

Jordan Bradshaw, Project Manager 410-970-8300 jordan.bradshaw@bradshawcc.com Refer to Project 562