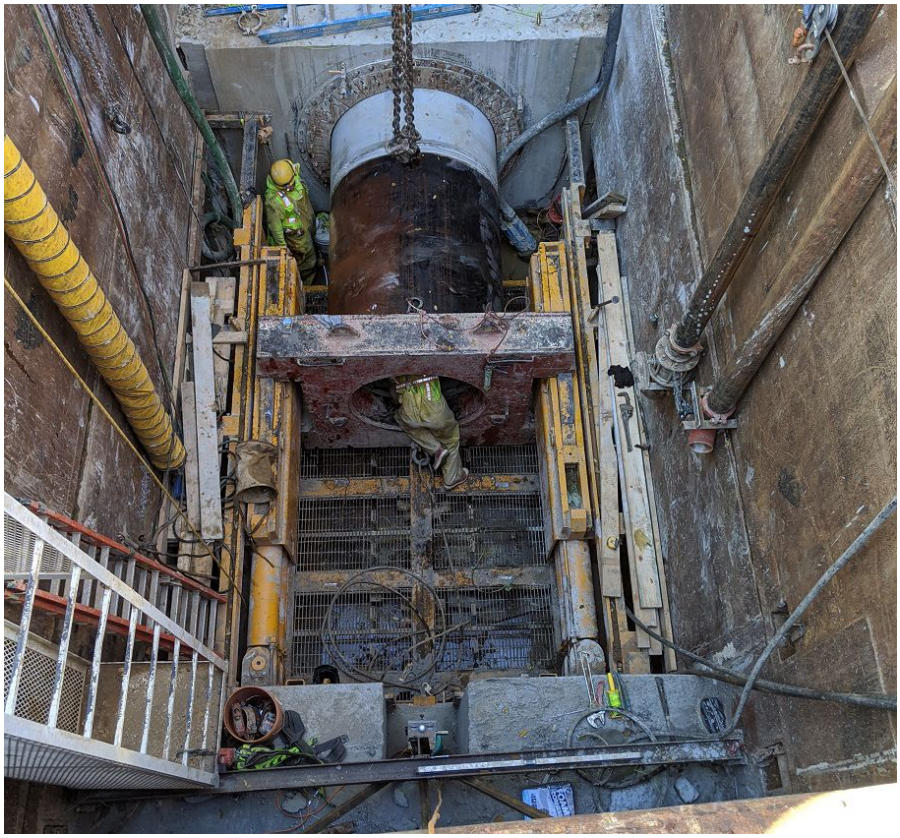
Project Profile: MICROTUNNELING

BRADSHAW CONSTRUCTION CORPORATION
TUNNELING SPECIALISTS

Shady Grove Sewer Extension
Derwood, MD



PROJECT OVERVIEW AND CHALLENGES

Bradshaw Construction was contracted to install a 182’ x 48” RCP tunnel for a sewer extension project in Derwood, MD, after the original subcontractor was unable to install the tunnel with a 36" SBU. The 60” OD tunnel was installed underneath a road and highly sensitive 36” and 48” PCCP water transmission lines with minimal clearances. The initial SBU attempt made it 70’ in, requiring Bradshaw to backfill the exposed 70’ x 36” tunnel prior to commencing microtunnel operations. Once tunneling operations were completed, 16” DIP was installed and backfilled. Major challenges on the project included maintaining line and grade through the transition from the native rock and the backfilled 36” tunnel. Extensive monitoring for both settlement and vibrations on the utilities was also required. Ultimately, the tunnel was installed on line and grade with no impact to the road or utilities.





PROJECT INFORMATION - 611

OWNER:
EYA, LLC
Adam Hayes
301-634-8653

ENGINEER:
WSSC Water
Don Owens
301-206-7368

CONTRACTOR:
W.F. Wilson & Sons, Inc.

COMPLETION DATE:
11/13/2020

GEOLOGY:
Rock

EXCAVATION METHOD:
Herrenknecht AVN-1200 MTBM

MINING DIMENSIONS:
182’ x 60” Ø (48” RCP)

FINAL LINING:
16" DIP

FOR MORE INFORMATION:
Jordan Bradshaw
410-970-8300
jordan.bradshaw@bradshawcc.com
Refer to Project 611