

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
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ENGINEER:

O'Brien & Gere
Louis Ragozzino
410-771-3005
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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:

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Refer to Project 562