Project Profile: MICROTUNNELING

BRADSHAW CONSTRUCTION CORPORATION
TUNNELING SPECIALISTS

NW 170th Street
Hialeah, FL



PROJECT OVERVIEW AND CHALLENGES

Bradshaw Construction installed 524 linear feet of 52.5 inch Permalok steel casing by microtunneling underneath the heavily traveled I-75 highway. We then installed a 36 inch ductile iron carrier pipe within the tunnel as a new water main. Bradshaw assisted the General Contractor with subcontractor supervision at no additional cost, helping to insure quality of the shaft and concrete work. Even with a vast amount of water leaking into the shaft, Bradshaw continued to mine through man made obstructions to the MTBM, while successfully managing line and grade to deliver a product ahead of schedule. Besides trash fill, the ground conditions included sand and limestone below the water table.





PROJECT INFORMATION - 513

OWNER:
Miami-Dade Water & Sewer Department
3071 S.W. 38th Avenue
Miami, FL 33146
305-665-7477

ENGINEER:
AECOM Technical Services, Inc.
13450 W. Sunrise Blvd #200
Sunrise, FL 33323
James Penkosky
954-745-7200

CONTRACTOR:
GPE Engineering Contractors

COMPLETION DATE:
6/16/2012

GEOLOGY:
Limestone with Trace Sand

EXCAVATION METHOD:
Herrenknecht AVN-1000 MTBM

MINING DIMENSIONS:
524' x 54" Ø

FINAL LINING:
36" Ductile Iron Pipe

FOR MORE INFORMATION:
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Refer to Project 513