Project Profile: MICROTUNNELING

BRADSHAW CONSTRUCTION CORPORATION
TUNNELING SPECIALISTS

FDOT SR 55 US-19 Roadway Improvements
Clearwater, FL

PROJECT OVERVIEW AND CHALLENGES

Bradshaw Construction mined 2 separate microtunnel drives for the Florida Department of Transportation. One drive was 300 linear feet and the other run was 336 linear feet. A 48 inch and a 42 inch ductile iron pipe water main was installed within the 60 inch steel casing, respectively. The tunnels were below the water table and at a depth ranging from 10 to 30 feet deep. The soils consisted of silty sand and clay. Tidal flooding of the site and heavy rainfall demanded particular attention to the shaft and site setup for safe completion.

PROJECT INFORMATION - 491

OWNER:
Florida Dept. of Transportation
(850) 922-1905

ENGINEER:
Greeley and Hansen
Tom Wilson
(813) 873-3666

CONTRACTOR:
Hubbard Construction Company

COMPLETION DATE:
3/17/2011

GEOLOGY:
Silty Sand & Clay

EXCAVATION METHOD:
Herrenknecht AVN-1200 MTBM

MINING DIMENSIONS:
300' & 330' x 60" Ø

FINAL LINING:
48" and 42" Ductile Iron Pipe

FOR MORE INFORMATION:
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Refer to Project 491