Project Profile: TBM TUNNELING

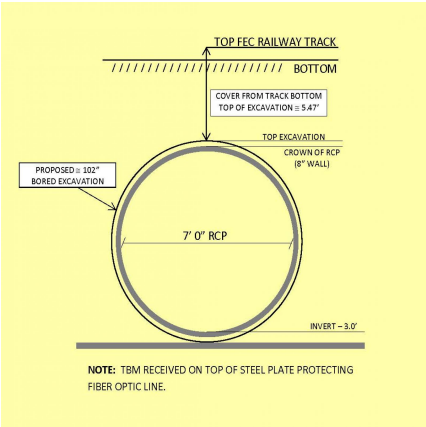
BRADSHAW CONSTRUCTION CORPORATION
TUNNELING SPECIALISTS

FDOT State Road 823
Hialeah, FL



PROJECT OVERVIEW AND CHALLENGES

Bradshaw Construction used one pass pipe jacking to install 183 linear feet of 84 inch reinforced concrete pipe under the Florida East Coast Railway using a 102 inch Lovat TBM in earth pressure balance mode. The ground conditions were silt, sand and limestone below the water table. The alignment and reception plans were modified, allowing for the completed tunnel to maintain minimal cover from the FEC rail tracks of less than 1 tunnel diameter while only inches above a fiber optic line.





PROJECT INFORMATION - 488

OWNER:
Florida Dept. of Transportation
Jacqueline Sequeira
305-654-7028

ENGINEER:
Eisman & Russo Consulting
305-666-2484

CONTRACTOR:
Alstaldi Construction Corporation

COMPLETION DATE:
8/31/2010

GEOLOGY:
Sand & Sand w/ Silt

EXCAVATION METHOD:
Lovat RM99/102R TBM

MINING DIMENSIONS:
183' x 102" Ø

FINAL LINING:
84" Reinforced Concrete Pipe

FOR MORE INFORMATION:
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Refer to Project 488