Project Profile: HAND TUNNELING

BRADSHAW CONSTRUCTION CORPORATION
TUNNELING SPECIALISTS

Hillen/Ashburton Plant Bypass Pipeline
Baltimore, MD

PROJECT OVERVIEW AND CHALLENGES

Bradshaw hand mined 50 feet of 108 inch liner plate for a 66 inch PCCP sewer and an 8 inch DIP water main under the CSX Railroad. Ground conditions were residual soils of silts, sands and boulders and required hand mining techniques of face breasting and crown fore poling. Bradshaw also installed a 12’ x 24’ mining shaft. The key challenges were the boulder ground conditions, proximity to the railroad right of way and steep access road to the shafts.

PROJECT INFORMATION - 412

OWNER:
Baltimore City
Department of Public Works
(410) 396-3310

ENGINEER:
Whitman, Requardt & Associates
Chris Thompson
(443) 224-1735

CONTRACTOR:
Metra Industries

COMPLETION DATE:
2/23/2004

GEOLOGY:
Residual soils - Micaceous silt, sand and boulders

EXCAVATION METHOD:
Hand Tunneling

MINING DIMENSIONS:
50' x 108" Ø

FINAL LINING:
66" Prestressed Concrete Cylinder Pipe
8" Ductile Iron Pipe

FOR MORE INFORMATION:
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Refer to Project 412