

BWI Stage 3B 20" Transmission Line Baltimore, MD



PROJECT OVERVIEW AND CHALLENGES

Bradshaw Construction installed 945 linear feet of 30 inch Permalok steel casing at Baltimore Washington International (BWI) airport in 3 drives under a railroad and 2 highways using the Akkerman pilot tube guided boring method. The ground conditions were extremely dense silt and sand with occasional stiff clays. Shafts for the drives were supported by steel sheeting, trench boxes as well as drilled in place corrugated steel casing. The dense/stiff soil conditions provided the greatest challenge to overcome with the pilot tube installation method as well as auger boring the casing with an American Augers 48-500 boring machine for lengths up to 475 linear feet. Another challenge was working on the BWI airport property resulting in tight security and limited both work space and access. The completed casings were lined with 20" fuel lines for the new Southwest Airlines concourse at BWI.



PROJECT INFORMATION - 445

OWNER:

Southwest Airlines, Inc.
(800) 435-9792

ENGINEER:

Aircraft Fueling Systems, Inc.
(918) 384-7171

CONTRACTOR:

Poling & Bacon Construction
Company, Inc.

COMPLETION DATE:

6/30/2006

GEOLOGY:

Sand, Clay, Silt

EXCAVATION METHOD:

Akkerman GBM 240
American Augers 36-500

MINING DIMENSIONS:

475', 220', & 250' x 30" Ø

FINAL LINING:

20" Steel Fuel Lines

FOR MORE INFORMATION:

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Refer to Project 445