

## Dulles Dedicated Fire System

Dulles Airport, VA



### PROJECT OVERVIEW AND CHALLENGES

Bradshaw Construction installed 2,100' of 43" Permalok steel casing for the 18" dedicated fire system. The tunnels were installed by microtunneling through shale beneath active runways, taxiways, and taxi lanes. The microtunneling was completed in four segments, the longest being 585' long under Runway 19L-01R. Bradshaw also installed the 18" DIP in the tunnels once mining was completed. Crews were trained according to Dulles International Airport's safety protocols and vehicle procedures, and passed security screening to access the secure site.



### PROJECT INFORMATION - 452

**OWNER:**

Metropolitan Washington Airports  
Airport Authority, Washington, DC  
Tom Patti  
703.417.8672

**ENGINEER:**

Burns and McDonnell  
8605 Westwood Center Drive #509  
Vienna, VA 22182  
703.942.5715

**CONTRACTOR:**

Corinthian Contractors, Inc.

**COMPLETION DATE:**

5/31/2007

**GEOLOGY:**

Siltstone, Shale

**EXCAVATION METHOD:**

Herrenknecht MTBM 43" Ø

**MINING DIMENSIONS:**

2,100' x 43" Ø

**FINAL LINING:**

Two Pass Pipe Jacked  
Steel Casing 41" Ø DIP 18" Ø

**FOR MORE INFORMATION:**

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Refer to Project 452