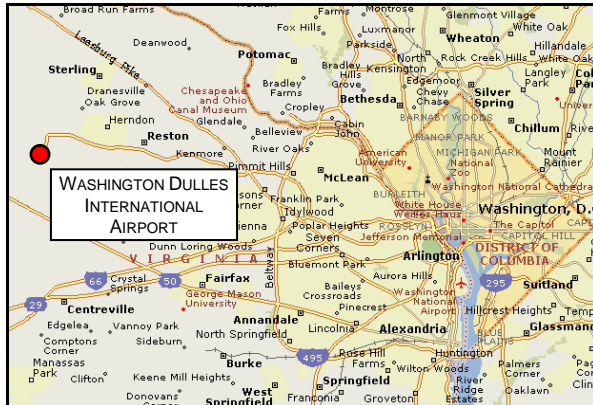
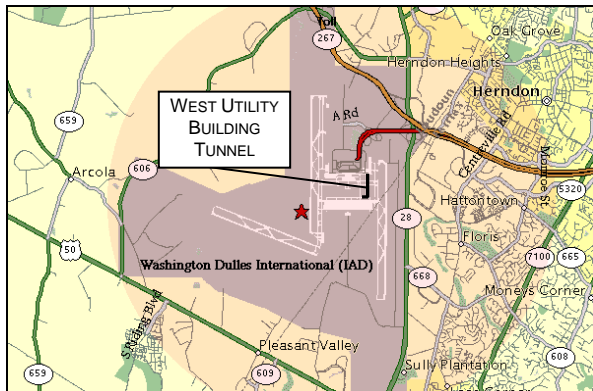


WEST UTILITY BUILDING TUNNEL INTERNATIONAL AIRPORT DULLES / WASHINGTON DC USA

OWNER: METROPOLITAN WASHINGTON AIRPORT AUTHORITY



PROJECT – LOCATION



WEST UTILITY BUILDING TUNNEL



SOUTH HEADING

PROJECT

Currently the international airport of Washington DC (IAD) is extended and renewed by multi billion Dollar construction projects. Part of these constructions are numerous tunnel projects, such as tunnels for automated people movers, and tunnels for the extension of the existing utility system.

The West Utility Building Tunnel is constructed to provide the midfield terminals with water, power and gas and the tunnel builds a connection between the West Utility Building and the Concourse A.

The tunnel has a total length of about 340 m and it is divided into 3 segments. Starting from a temporary ramp, tunnels were driven to the north and the south.

The so called north heading has a length of approximately 150 m and south heading 150 m. From the south tunnel a 3rd part of the tunnel, the so called west heading, diverge from south heading and is approximately 40 m long.

RESPONSIBILITIES

NATM Engineer responsible for the excavation of a tunnel underneath an airport that is in service.

Services provided -
Geotechnique and Technical Assistance:

- Determination of the rock class
- Determination of additional local measures
- Interpretation of the geotechnical monitoring
- Construction consultancy

Period of work: 2004 - 2005
Volume of service provided: 320,000 Euro