



Valík Motorway Tunnel D5 Motorway Prague – Rozvadov construction 0510/I.B, section Černice – Útušice, km 76.510 – 79.980

CLIENT

Ředitelství silnic a dálnic ČR (Road and Motorway
Directorate of the CR), Prague 4, Na Pankráci 56

DESIGNER

Pragoprojekt, a.s., Prague 4, K Ryšance 16

CONTRACTOR

Sdružení 0510/IB DMB, Prague 2, Tyršova 3:
Dálniční stavby Prague, a.s., Metrostav a.s.,
Berger Bohemia a.s.

CONSTRUCTION PERIOD

Start date 11/2003

Planned commissioning date 10/2006

Completion date 08/2008

CONTRACT VALUE 2,543 mil. CZK

The Valík motorway tunnel is part of the construction of the D5 motorway in the Prague – Rozvadov direction. There is one tunnel in each direction with two lanes 3.75m wide and one emergency lane 3.25m wide.

The northern tunnel is 390m long, of which the cut-and-cover part is 330m long. The southern tunnel is 380m long with a cut-and-cover part 330m long.

To decrease the amount of land occupied, the tunnel is designed so the tunnels are pushed towards each other, so the central abutment is not made of the rock mass but a reinforced concrete wall. This was concreted in advance in a separate middle tunnel. The tunnels have a 160m² stope profile and are excavated using the New Austrian Tunnelling Method (NATM). The vertical excavation sequence was modified according to the specific geotechnical properties of the rock mass.

To ensure safe operation, both tunnels are connected to a centralised automatic traffic management system and provided with equipment comprising ventilation, lighting and intercommunication. It is also fitted with a hydrant line including a fire water source.

Cross-section height 5.35m

Roadway width 11.5m

Horizontal curve radius 2,250m

Lateral slope 2.5%

Longitudinal gradient 4%

