

The Multi Service Group.



Foundation Works For The Construction Of The Autobahn M6 In Hungary

Érd - Dunaújváros, Hungary



The specialized engineering JV (consisting of Bilfinger Berger Baugesellschaft m.b.H. and Porr Grundbau) was commissioned with the foundation works for the Autópálya M6 project in Hungary in October 2004. The M6 motorway project extends across a length of 60 km (from Érd to Dunaújváros) with a total of 52 bridges, for which foundation building works were required.

The project was divided into 4 construction phases, meaning that it was necessary to start with the foundation works simultaneously in all construction lots. Driven piles (30x30 cm), SOB piles (D = 800 mm, 1200 mm) and large diameter bored piles (D = 880 mm, 1000 mm, 1200 mm) were used for the execution.

Integration of the foundation piles was performed predominantly in sandy/silty soils.

Worked commenced in 2005 with the following 7 devices:

SOB procedure:

1xRH 25, max. L=15.50 m

1xRH 25, max. L=20.00 m

1xBG 30, max. L=20.00 m fully

large diameter bored piles:

1xLH 853, max. L=29.00 m

1xBG 36, max. L=28.00 m

Driven piles:

1xBanut, max. L=16.00 m

1xABI, max. L=11.00 m

25 Nos. pile-loading tests were performed to confirm the permitted pile loads.

Quantities:

Driven piles: 14,000 m, SOB piles: 22,250 m, Large diameter bored piles: 7,300 m

Contract Value (net)

8.0 Mio EURO

Construction Period:

01/2005 - 08/2005

Client:

Hungarian state, represented by the Ministry of Economy and Traffic

General entrepreneur:

JV M6 Autópálya (Bilfinger Berger, Porr, Swietelsky)

Planner:

Pont-TERV, Főmterv

Services:

Foundations of 52 bridges

Driven piles 30/30 cm

SOB piles D = 800 mm, 1200 mm

Large diameter bored piles D = 880 mm, 1000 mm, 1200 mm

Pile-loading tests

Execution:

JV M6 ST (Bilfinger Berger, Porr)

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