



Survey for ARGE Streckenbau, Erd- und Grundbau (earthworks and foundation engineering)

#### HPC Performance:

##### Design Survey

- Research
- Geodetic fixed point field
- Survey-based location and gradient diagrams
- Stake out documents
- Staking out for draft
- Topographical profiles

##### Construction Survey

- Staking out
- Construction work survey
- Survey monitoring of construction work

##### Particular Services for Foundation Soil Observation

- Settlement measurements for sections
- Settlement measurements for dams
- Vertical inclinometer measurements
- Horizontal inclinometer measurements

##### Client Benefit:

- Time saving by on-site project office
- Quality assurance by experienced surveyors, railway inspection center (BüZ) and the Technical University of Munich (TuM), continuously controlled measurement methods and appliances
- Cost reliability and complex, interdisciplinary services performance together with foundation soil consulting on the project site

## Construction of a New DB Railway Line Nürnberg/Ingolstadt LOS Süd-Streckenbau Survey

#### Project Name:

Construction of a new railway line of Deutsche Bahn from Nürnberg to Ingolstadt, Los Süd Streckenbau (earthworks and foundation engineering)

#### Country:

Germany

#### Project Location:

Nürnberg-Ingolstadt

#### Client:

ARGE Streckenbau N-IN Los Süd  
(Berger Bau Passau-  
Friese Bahntiefbau Berlin-  
Linke Tiefbau / Grundbau Berlin)  
Äußere Spitalhofstraße 19  
94036 Passau  
Tel. 0851/806-102, Fax -806-259  
On behalf of DB Projektbau NL München

#### Contact:

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#### Purpose:

Construction of the new ICE railway line  
Nürnberg-Ingolstadt

#### Contract Volume:

500 000 €

#### Project Duration:

Jan. 2003 to Dec. 2006

#### Project Data:

Length of line:	17.6 km free line 37 km of solid railway
Earthworks:	3.0 million m <sup>3</sup>
Sections:	12
Dams:	9
Bridges:	11