



Project:

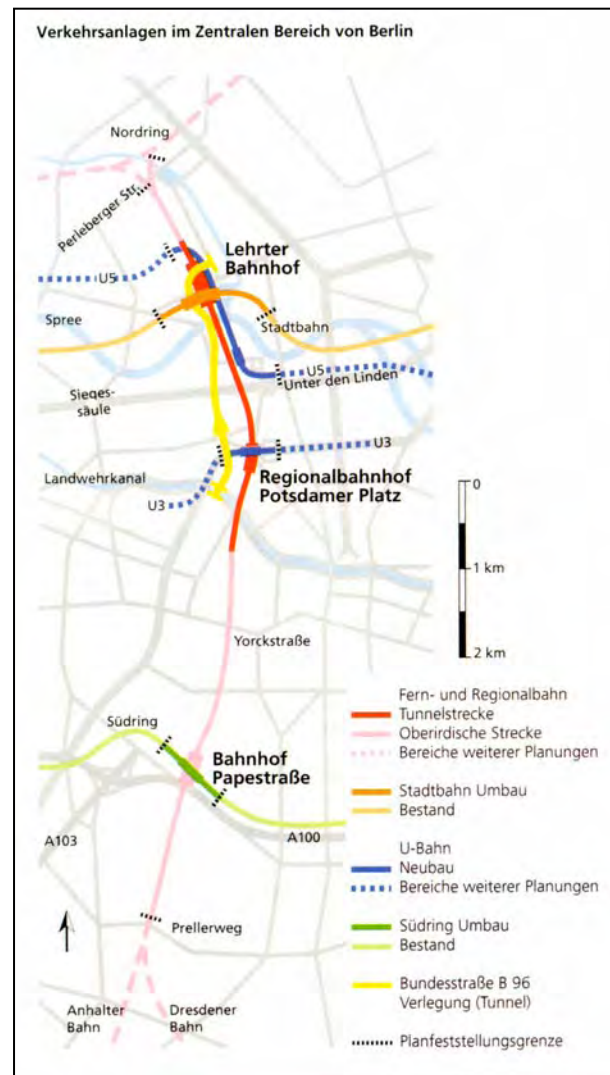
Alignment / Infrastructure

Railways
in the
Center of Berlin

Section South

with station
‘Papestraße’

1992 - 1994



This project includes the new north-south passenger lines for IC-lines and regional lines entering Berlin from south direction 'Dresden' and 'Leipzig':

- Realignment of City Railway Lines in the new Central Station of east-west direction.
- Realignment of City Railway Lines S 2 and S 4 in the southern area of Berlin.

In a joint venture we were responsible for the layout of 'Station Papestraße' with the feasibility study and preliminary design and cost estimates.

The 'Station Papestraße' is the crossing in two levels of the ICE-lines and regional lines (Dresden and Leipzig) of Berlin.

The 'Station Papestraße' will be one of the three inter-regional stations in the new railway concept for the greater Berlin area. The interaction of the different railways - long distance, regional passenger transport and local passenger transport - with bus-, tramway- and underground connections had to be provided.

The stations installations are distributed on three levels:

Level - 1
Passenger passage with operating installations.

Level 0
Platform north-south for ICE-trains, Regional Trains and S-Bahn.

Level + 1
Two tracks for passenger passage S-Bahn (S 4) and two lines of freight transport.

'Section Papestraße' with S 2 and S 4



❶ Transformation of operation program in necessary infrastructure;

Cross sections for:

- 2 S-Bahn lines,
- 2 regional lines.

In the open line:

- realignment of 4 S-Bahn lines, 1st level.

Cross sections in the station:

- 2 platforms for S-Bahn,
- 2 platforms for long distance trains,
- 1 platform for regional trains,
- 2 platforms for S-Bahn, 1st level.

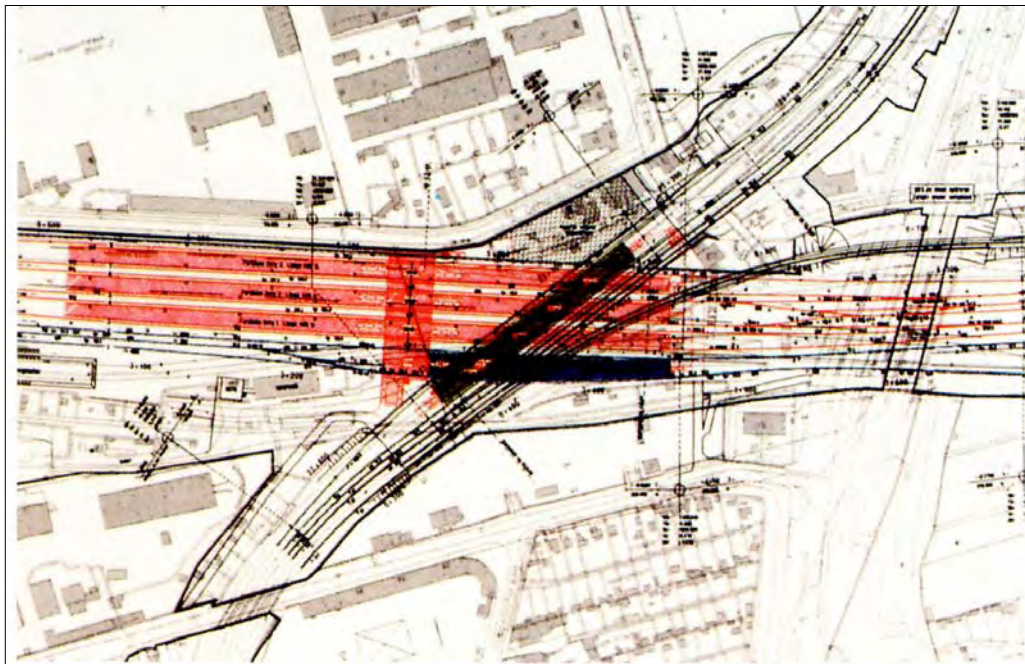
Cross sections for stabling of regional trains.

Design of passenger service installation :

- platforms,
- ways of access,
- elevators,
- over- and under crossings,
- temporarily design of areas of access,
- definition of space for construction times and planning of works.

❷ Alignment and calculation of alignment in the existing status and further in the south with level free crossings with all structural works and structures as bridges and retaining walls.

❸ Investment costs



Project 'Section Papestraße'

Cross sections and alignment for maintenance of ICE-lines, regional train, catering tracks. Access to this area level free crossing and alternative level crossing and access.

❹ Co-ordination with specialists concerned, power supply, signalling, system, catenary.

❺ Preliminary design for all civil works as mentioned below.

❻ Design and descriptions, co-ordination with specialists for foundation, noise and vibration, water protection, etc.