

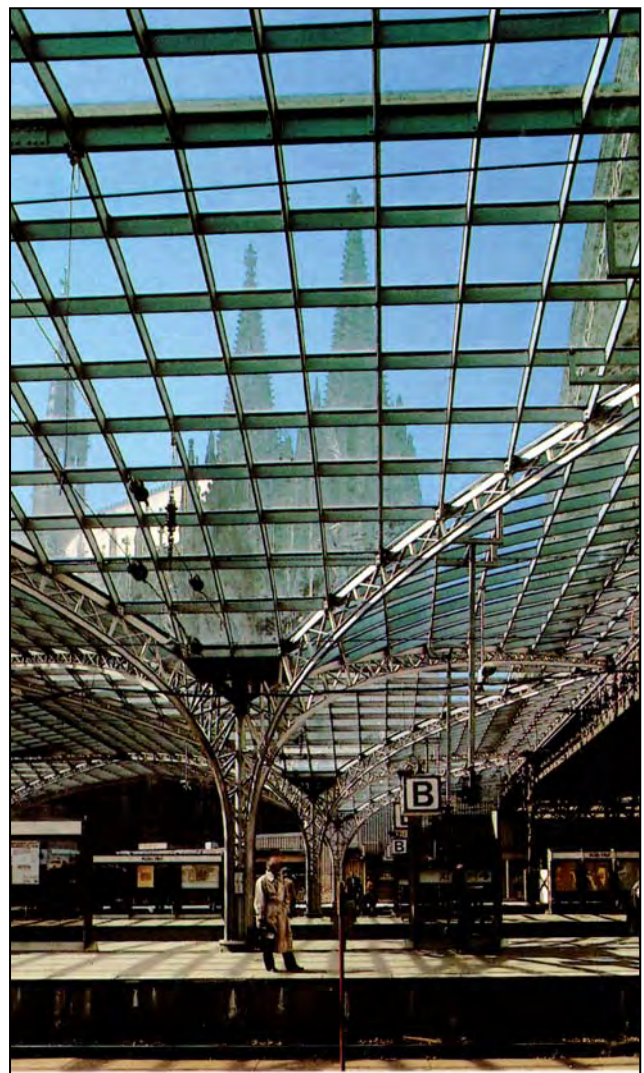


Project:

Alignment / Infrastructure / Permanent Way

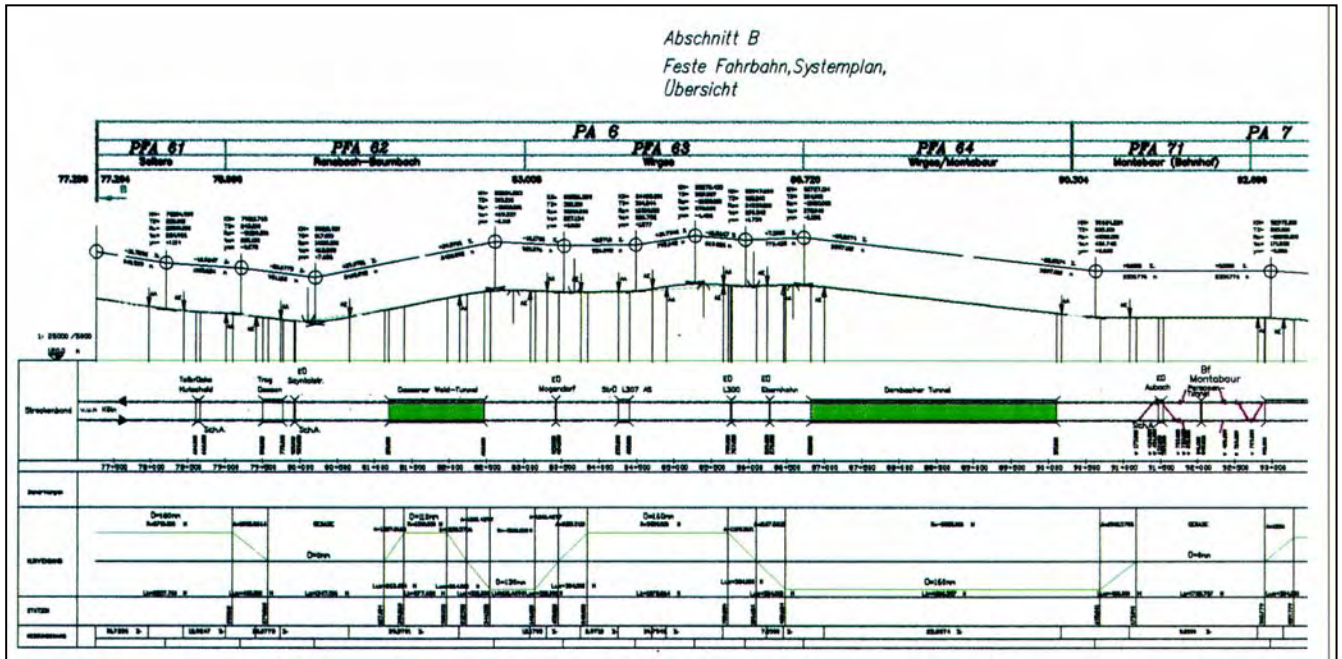
Supplementary
Study of project
during
Tendering Phase
for the
High-Speed-Line
'Cologne -
Rhine/Main'
in respect of
Permanent Way
in Slab Track

November 1995
- January 1996

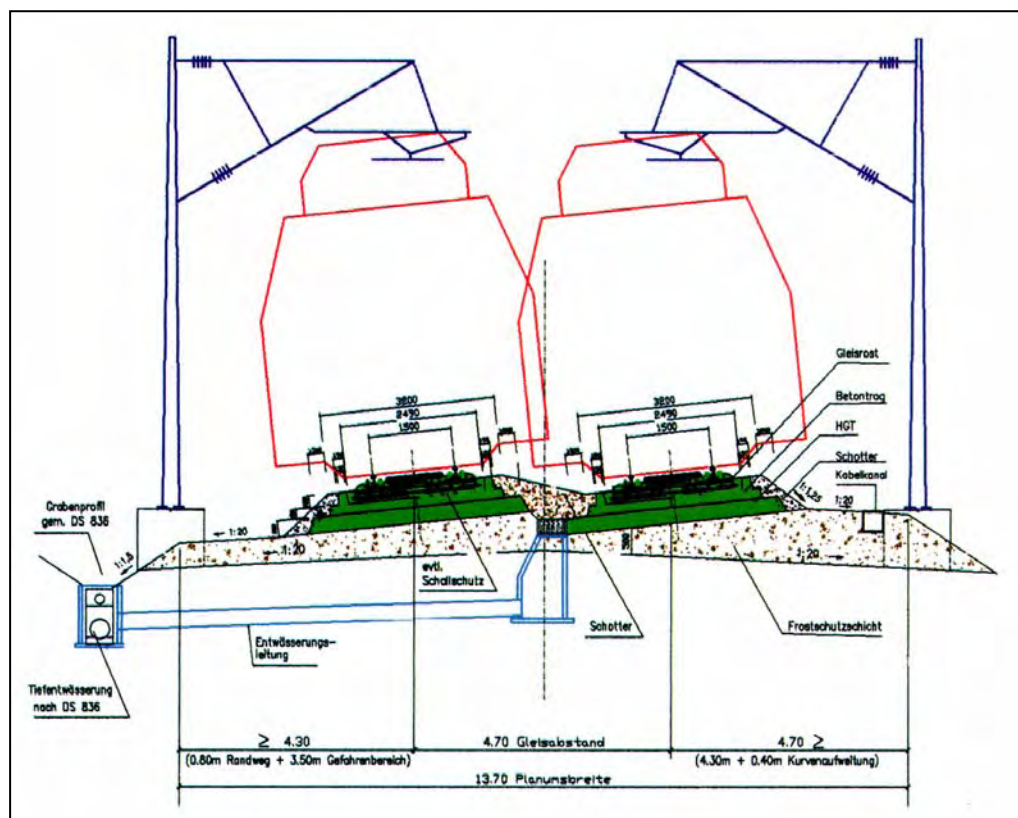


A joint venture of constructors entrusted 'J. Radermacher GmbH' to study the high-speed-line Cologne-Rhine/Main- project with track works executed in slab track.

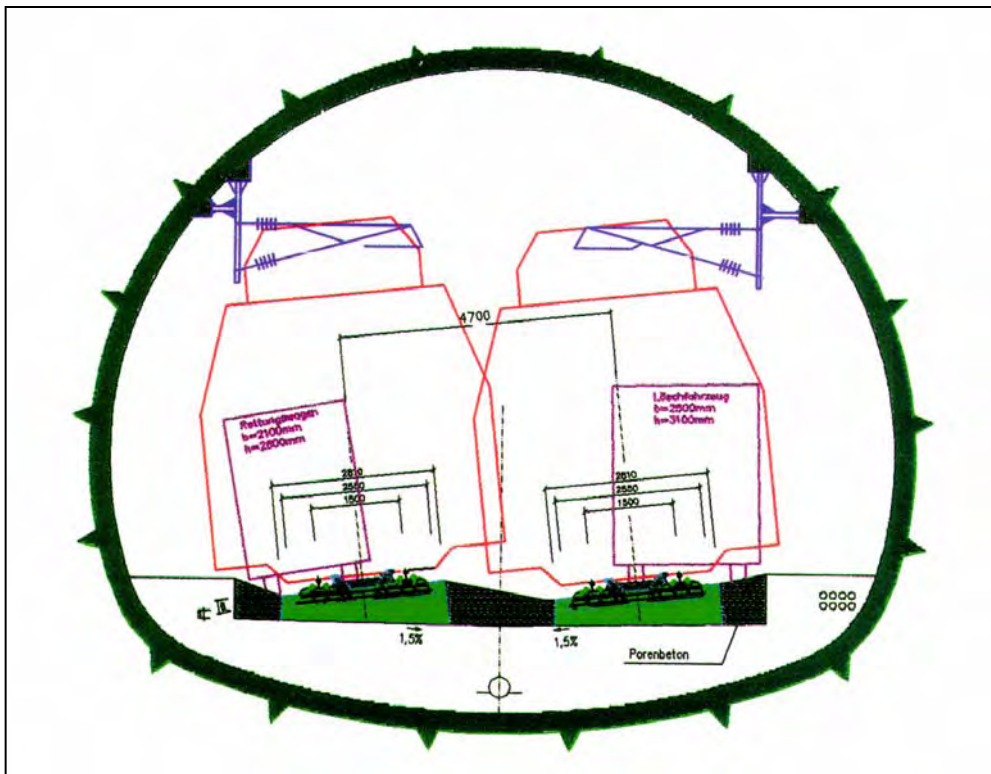
To get the approval of the German authorities we prepared design and reports.



Typical longitudinal section indicating all relevant data



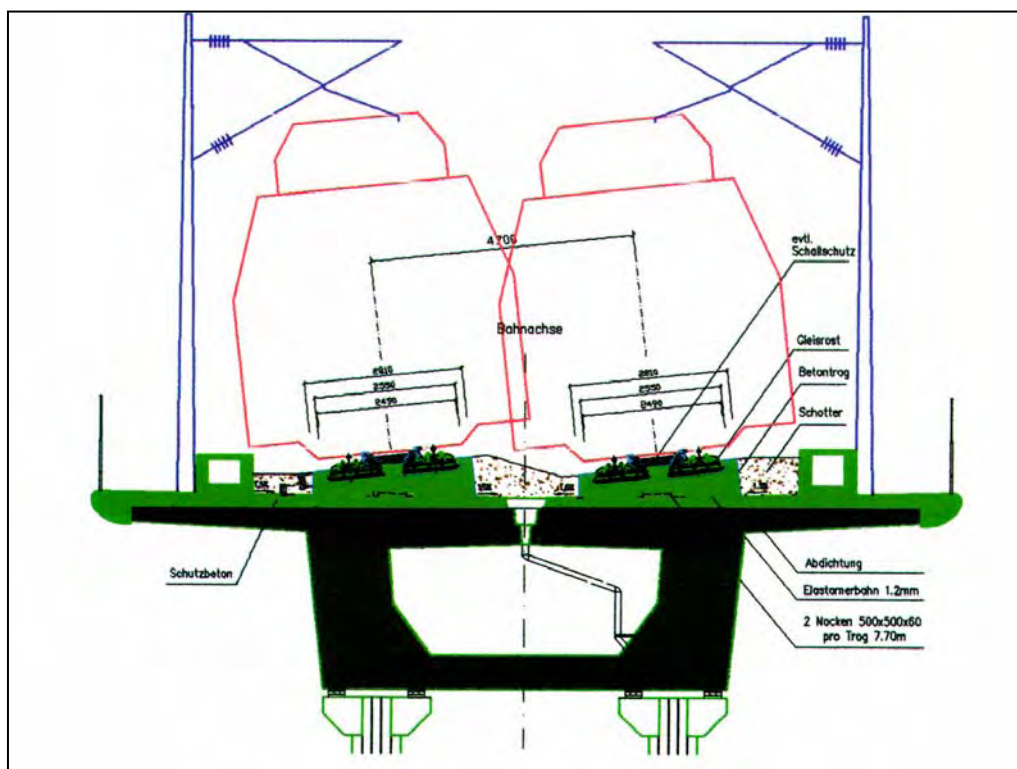
Typical cross section on earth works



Typical cross section in tunnel

For this project we designed the typical construction of slab track on earth-works on viaducts and in tunnel sections. Special attention was given in particular to transitions on above mentioned sections and turnouts on slab track.

Influences of slab-construction in the planning of works were described and remarks were made to cost relevant details. Calculations of quantities on all sections of the line from Cologne to Frankfurt were made.



Typical cross section on viaducts and bridges