

RAILWAY BRIDGES UNDER VYŠEHRAĐ

Verbal evaluation of Concepts

CONCEPT NO. 11

TRANSPORT SOLUTION

The design of platforms, platform edges and track layout of the Výtoň stop is without comments, with good and short transfer links and direct connection between the platform and the footbridge over the Vltava River. No direct connection in the direction of the platform – footbridge is designed. Bicycle transport is diverted to the street space and inadequately addressed with respect to long distance routes.

ARCHITECTURAL AND URBAN DESIGN

It maintains the existing bridge structure in a slightly offset position for pedestrian and bicycle traffic only. The new bridge has an elegant architectural expression – however, in the overall context of the bridges the design is unconvincing, especially in the views over the arches, and the proposed design of the new piers is also questionable.

FUTURE OPERATION

The contactless track design is documented by a standard solution. A more detailed elaboration of the design in terms of robustness and associated operational safety in the event of an emergency situation should be considered. Maintenance of both bridges appears to be feasible as standard, which is assessed positively.

TECHNICAL PARAMETERS

It is a network arch bridge with a suspended bridge deck, with a modern and contemporary structural design that fully meets the required parameters. The location of the tracks and the coupling on Smíchov side with the need for connection to the GPK of downstream structures and verification of the axial distance of the tracks are still to be solved. However, the current structural design is a prerequisite for simpler construction and easier subsequent maintenance.

RESTRICTIONS DURING CONSTRUCTION

A single structure in 3+0 track layout is a slightly more advantageous design than other comparable designs.