



Project Fact Sheet

Railway bridge in Pnovany



PROJECT

Project	Reconstruction of Bridge at KM 374.010 on the third rail transit corridor section Pilsen - Silver
Client	SŽDC, Construction manager Plzeň
Project phase	Bridge completed and in use
Installation date	15 April 2008
Designer	Sudop Praha, VIN Consult
Contractor	Skanska DS
Description	Replacement of a 120 years old bridge, on its end of life

FACT FILE

Structure	CM4 15 x 20 Arch precast structure
Span	5,8m
Height	3,5m
Length	10,0m (4 rings of 2,5m)

REQUIREMENTS

- Open design without the bottom slab, for maximum ground clearance
- Slope around the wings must copy the existing embankment
- Replacement of old bridge with an aesthetical architectural solution
- A fast solution with minimal impact on the building site traffic and the environment

SOLUTION

- Using an arch system based on a flat feet
- Finding a suitable combination of 15sqm wall elements and 20sqm roof elements
- Reducing the width of the bridge using an edge beam
- Use of precast wing walls, to allow for solid earthworks required by the railway line



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The old bridge



The new bridge



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