



## Project Fact Sheet

### Railway Bridge in Strakonice



## PROJECT

|                          |   |
|--------------------------|---|
| <b>Project</b>           | Refurbishment of the bridge at KM 276,804 on rail line Ceske Velenice - Plzen |
| <b>Client</b>            | SŽDC, Construction Manager Plzen  |
| <b>Installation date</b> | 23 August 2007  |
| <b>Designer</b>          | Valbek Plzen  |
| <b>Contractor</b>        | Chladek & Tintera   |
| <b>Description</b>       | Replacement of a 120 years old bridge with a new structure                    |

## FACT FILE

|                  |                                |
|------------------|--------------------------------|
| <b>Structure</b> | Precast arch 15 wall x 20 roof |
| <b>Span</b>      | 5,8m (clear)                   |
| <b>Height</b>    | 3,3m (clear)                   |
| <b>Length</b>    | 7,5m (3 rings by 2,5m)         |

## REQUIREMENTS

- The structure dimensions to be equal or bigger than the existing bridge
- Maximum height clearance profile
- Replacement of the old bridge with a nice architectural solution
- A solution that can be installed fast to allow minimum closure of the railway line

## SOLUTION

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





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The old bridge



The new bridge



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