



## Project Fact Sheet

Prague Bypass

Section 513 – three bridges over the motorway



### PROJECT

<b>Name</b>	Prague Bypass, section 513, structures SO 223, SO 224 a SO 225
<b>Employer</b>	ŘSD ČR (Czech Highway Agency)
<b>Date of installation</b>	in three phases – January to April 2009, each structure in 5 days incl the wingwalls
<b>Consultant</b>	Pragoprojekt a.s., Valbek s.r.o.
<b>Contractor</b>	Alpine Bau CZ
<b>Scope</b>	Three overpasses carrying the local farm road and allow for wild animals to pass the new motorway

### FACT FILE

<b>Structure</b>	CM4 52 x 225 twin arch precast system
<b>Span</b>	2 x 16m (clear)
<b>Height</b>	8,3m (clear)
<b>Length</b>	26,2m (11 rings by 2,36m)

### REQUIREMENTS

- Replacing the original design of massive insitu arches to lower the cost
- Keeping the exactly same width of the bridge
- Lowering on site risks associated with insitu structure
- Quick solution with minimum impact to site traffic management and close by environment

### SOLUTION

- Using arch structure and simple foundation on strips
- To keep the same length using special width of the elements 2,36m
- Using special precast walls with the slope of 1:1,2
- Using spandrel walls of earth reinforced system with facing bricks





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