



## Project Fact Sheet

Road I/27 Pilsen, Tyrsuv sad – Sukova, 2<sup>nd</sup> phase, ST 703



### PROJECT

<b>Name</b>	New road I/27 in Pilsen, section Tyrsuv sad – Sukova, 2 <sup>nd</sup> phase
<b>Employer</b>	RSD CR (CZ Highway Agency)
<b>Date of installation</b>	24/02/2009 – 28/02/2009
<b>Consultant</b>	Pontex s.r.o.
<b>Contractor</b>	Berger Bau (Berger Bohemia branch) in joint venture with Strabag
<b>Scope</b>	Design, manufacture and installation precast arch as a service duct for new water pipes

### FACT FILE

<b>Structure</b>	CM4 12,5 x 15 Arch precast structure
<b>Span</b>	5,1m
<b>Height</b>	3,3m
<b>Length</b>	53,6m (20 rings of 2,5m and two special rings by 1,7m)

### REQUIREMENTS

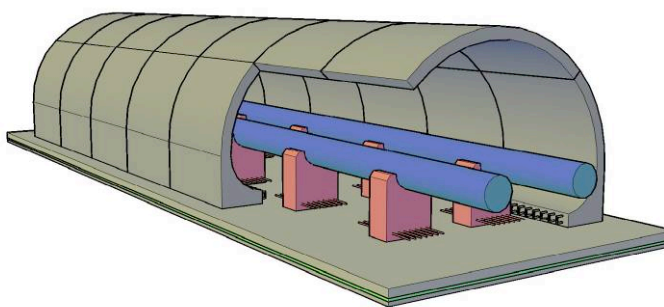
- Initially in-situ box structure but facing construction during winter season
- Worries about damages to the water pipes, especially when casting the deck
- Lowering potential risks associated with in-situ technology
- A fast solution with minimal impact on the building site traffic and the environment

### SOLUTION

- Using a precast arch system
- ABM also came up with the solution of precast block holding the pipes
- Reducing the width of the standard ring to fit inside two already cast inspection towers/shafts
- the whole 53,6m long service duct installed in only 5 days with no impact onto the site traffic



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ABM Mosty s.r.o.  
Klariská 7, 814 21 Bratislava, Slovakia

ABM Mosty s.r.o.  
V Celnici 1034, 110 00, Prague, The Czech Rep.



ABM Mosty Sp z o.o.  
Ul. Złota 59, 00 120, Warszawa, Poland

ABM Bridge Systems SRL  
Str. Paleogolu 24, Bucharest, Romania

Please visit our website for more information:

web: [www.abmeurope.com](http://www.abmeurope.com)

or contact us on:

email: [mosty@abmeurope.com](mailto:mosty@abmeurope.com)

mobile: 00420 777 226 293

0040 721 511 619

0048 660 191 187