

MOTORWAY BRIDGE

SKALNÍ PODLOŽÍ
SOUVRSTVÍ LETENSKÉ



Reconstruction of Bridge in motorway R6
above the river Ohře

SO 0025.01

KONSTRUKCE DLE SO 0025.01
VÝPRAVA ŽELEZNÉ STAVBY (P. V. P. V. V.)
ZÁKLADNÍ KONSTRUKCE (P. V. P. V. V.)
PŘI VÝPRAVĚ ŽELEZNÉ STAVBY (P. V. P. V. V.)
PODLOŽNÍ BETON C 40/20-20, TL 100mm (obdobnost)
STĚNOPÍSKOVÝ PODSTUP POKRYTÍ 100 mm (FR 14-20 mm) (obdobnost)
STĚNOPÍSKOVÝ PODSTUP POKRYTÍ 100 mm (FR 14-20 mm) (obdobnost)

1.0

2x ČERNÁKOVSKÝ 4/100mm
UMÍSTĚNÍ DLE PODSTUPU

PODSTUP POKRYTÍ 100 mm (FR 14-20 mm) (obdobnost)

PRACOVNÍ SPRAVA
(TECHNICKÝ TYP)
+ KONSTRUKCE ŽELEZNÉ STAVBY (P. V. P. V. V.)
+ KONSTRUKCE ŽELEZNÉ STAVBY (P. V. P. V. V.)

CCE
PRAHA

1.5

2.0

1.5

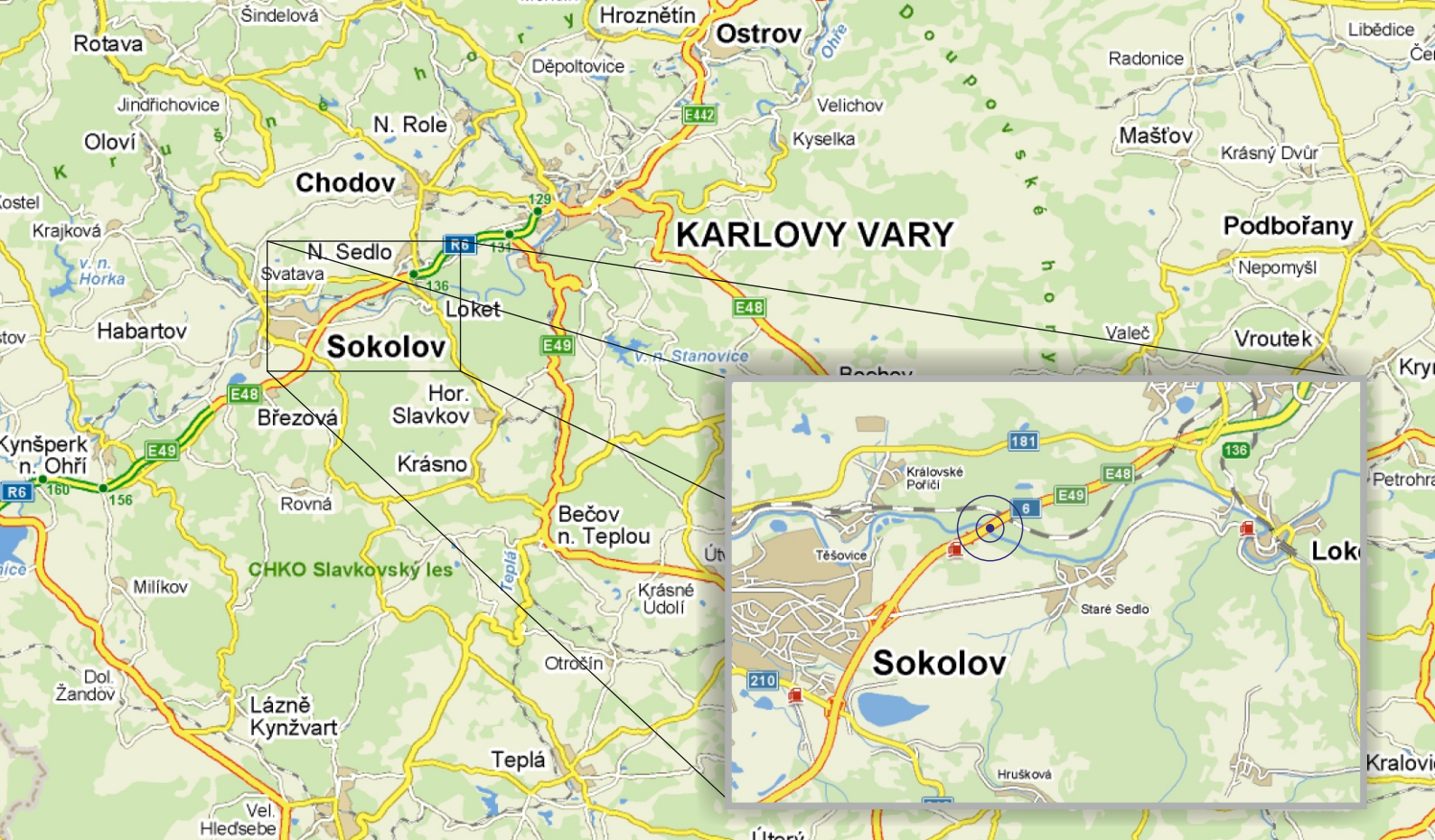
1.5

1.5

1.5

VÝPRAVA ŽELEZNÉ STAVBY (P. V. P. V. V.)
ZÁKLADNÍ KONSTRUKCE (P. V. P. V. V.)
PŘI VÝPRAVĚ ŽELEZNÉ STAVBY (P. V. P. V. V.)
PODLOŽNÍ BETON C 40/20-20, TL 100mm (obdobnost)
STĚNOPÍSKOVÝ PODSTUP POKRYTÍ 100 mm (FR 14-20 mm) (obdobnost)
STĚNOPÍSKOVÝ PODSTUP POKRYTÍ 100 mm (FR 14-20 mm) (obdobnost)





Surveying works

Reconstruction of the road bridge Project 214 on the trunk road R6 across the Ohře river

- surveying for the calculation of geometric characteristics of manufactured steel parts
- surveying for the assembly of individual components at the pre-erection workplace. This measurement included the alignment of erection "blades" and the staking out of position "bumpers"
- surveying for the calculation of geometric characteristics of welded components at the pre erection workplace



Surveying works during the manufacture of the steel bridge structure

- surveying for the assembly at the erection workplace of components from the pre-erection workplace. This measurement again included the height alignment of erection "blades" and the staking out of position "bumpers"
- surveying for the calculation of geometric characteristics of welded components at the erection workplace
- surveying stake-out of lateral alignment on the individual pillars for launching the structure.
- surveying of geometric characteristics of the structure and parameters of launching during the actual launching of the steel bridge structure



- ➔ the monitoring was carried out on-line with the help of the technology for monitoring changes of position and height of points during construction processes. The characteristic points are stabilized with reflecting prisms and secure the precision of measurement $\pm 2\text{mm}$



Surveying works during the reconstruction of the substructure

- ☞ surveying of the basic setting-out network with forced centering and adjustment
- ☞ surveying of the basic stage for monitoring vertical and horizontal deformations during the individual construction processes
- ☞ surveying of vertical and horizontal deformations of the substructure (arch, pillars and loaded bridge deck) during the demolition of the original bridge deck. The monitoring was carried out on-line with the help of the technology for monitoring changes of position and height of points during construction processes



- ☞ surveying alignment of formwork during the casting of renewed pillars and construction of new abutments, which included the alignment of forms for blocks under the bearings
- ☞ surveying of vertical and horizontal deformations of the substructure during the actual process of launching the steel bridge structure; it was again carried out with the help of the technology for monitoring changes of position and height of points during construction processes
- ☞ preparation of the technical documentation and as-built documentation

