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10. New Highway Bridge in Velké Meziříčí (CSSR)

Design: TU Praha (competition design)
 Doprastav Brno, VŽKG Brno
 Fabricator of steel structure: VŽKG Brno
 Erection: Hutní montáže Ostrava
 Contractor: Dopravní stavby Brno



A new steel box girder bridge was built across the valley of the river Oslava, in the city of Velké Meziříčí, as part of the new highway from Praha to Brno. The bridge with 4 unequal spans, totaling 425 metres, consists of two separate structures, each of which carries two lanes of a four-lane bituminous-coated highway. The total width of the bridge is 29,2 m. The bridge is curved in plane ($R = 2200$ m). The orthotropic bridge's deck has longitudinal box-shaped ribs ($t = 6$ mm). Spacing of the cross beams is 2,5 m. The main box girder depth of 4170 mm diminishes to Prague abutment to 3070 mm. Total weight of steel 37,52 and 48 is 5600 t (e.g. 485 kpm^2). The superstructure was erected by overhang. All erection splices were welded except box webs, for which HS-bolts were used.

(Jiří Pechar)

