

## **Stabilisation of Road Landslide with Retaining Wall on Piles**

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**Abstract** During winter 2005 at the location of Bec near Gjakova in Kosovo, a massive land slide occurred from a hill. In terms of geological composition, the terrain consists of clay layers of a high plasticity, with a high level of underground waters on the sliding surface and underneath -clayey sandy gravel. This massive is stabilized by a retaining reinforced concrete wall founded on piles. Design of piles, which are subject to horizontal forces, is also done by considering the terrain as an elastic – plastic medium. Effects of ground plastification should be taken into account by assuming an additional displacement. A system of underground drainage is applied as well as a surface drainage in order to reduce the pressure from the underground water.

**Keywords:** *Landslides, stability analysis, geo mechanical investigation, piles, surface drainage,*

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