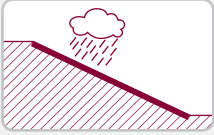
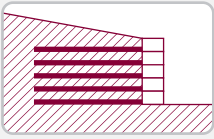




KORDÁRNA

A MEMBER OF THE KORD GROUP

RETAINING WALL



Hodkovice-Rádelský Mlýn

bridging the main track road R 35

country: Czech Republic

realization: 2002

material: Armatex® G 50/30 a 80/30

Slovarm

5800 m²

400 m²

ARMATEX® G

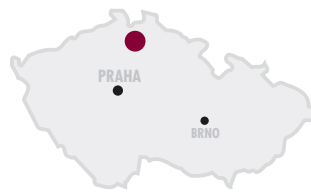
woven geogrid from high-strength PET with PVC adjustment for soil reinforcement

purpose of usage:
soil reinforcement

SLOVARM

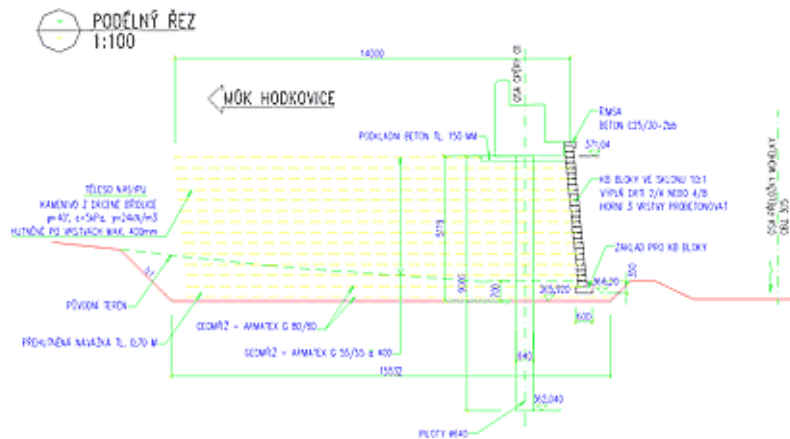
Woven geogrid from high-strength PP tapes for erosion control

purpose of usage:
fortification surface of side slope



The newly constructed fast road between Turnov and Liberec is bridged at Rádelský Mlýn by a 3-pole bridge structure. The bridge abutments were originally designed as monolithic concrete retaining walls (the bridge structure itself is based on piles). SG Geotechnika, a.s. proposed using, instead of concrete retaining walls, a reinforced earth structure with facing from concrete form-pieces a segmental retaining wall.

The abutments are 5 - 8 m high, the reinforcement is provided by **Armatex® G 55/30** geomesh anchored in a bed of concrete building blocks at every second layer (separated by 0.6 m). **Armatex® G 80/30** was used for only the first and second layers. Debris (clay-sand soil with pieces of soil) was used as the earth filler.



Completed bridge abutment made of reinforced soil. The side slope surface is reinforced with Slovarm geotextile to ensure erosion control.

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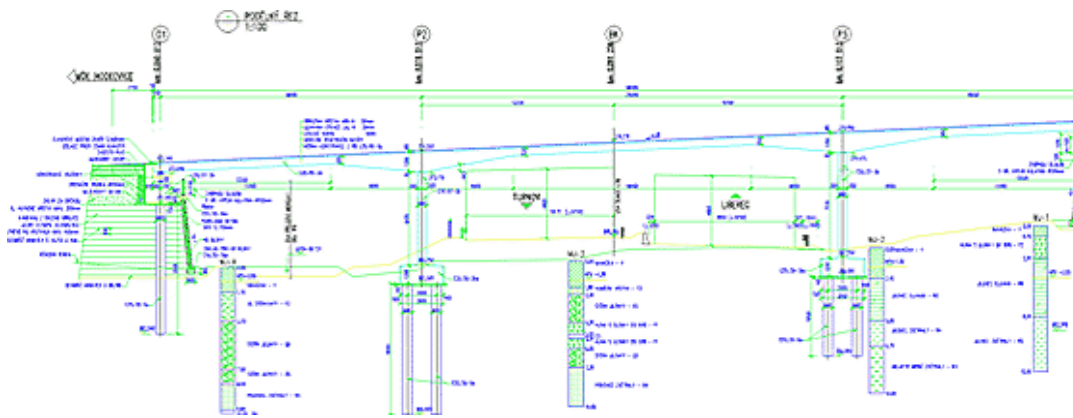


Factory Production Control Certificate 0799-CPD-19



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Detail of face segments laying (adapting pieces).
The reinforcing geogrid **Armatex® G 55/30** is inserted into the horizontal joint of every other layer.



Plastic pins for fitting to adapted pieces, they also serve for anchoring geogrids.



Armatex® G 55/30 geogrid laid on levelled and compacted layer.



View of the segmental wall of a bridge abutment on the building site.

investor:
Ředitelství silnic a dálnic, Liberec
designer:
Topcon s.r.o., Praha
contractor:
SSŽ a.s., závod Liberec
realization:
2002