

### NATIONAL ROAD NO 8 BORIKHAMXAY, LAOS

#### ENVIRONMENTAL/ HYDRAULIC & EROSION CONTROL/ SLOPE PROTECTION/

#### Product: Gabions

#### Problem

The National Road no 8 joins the Borikhamxay province in Laos. It passes through mountainous terrain near Laksao, which necessitated retaining walls having a dual function of slope retention as well as scour protection from fast flowing water.

Heavy rainfall in September 2002 resulted in slope failures and river bank damage at a section of the National Road 8.

#### Solution

The solution proposed by Maccaferri and vetted by the Project Consultant was to combine a gravity gabion wall along with a Gabion mattress apron as an optimal solution for both design criteria :

- A. Retention and stabilization of the highway slope
- B. Scour protection of the highway slope, from high velocities of water ( approximately 8m/s )

The Project Consultant had originally designed a concrete retaining wall, but later opted for Maccaferri's Gabion wall design due to reasons of economy and overall savings for the project.

Moreover, the availability of good quality boulders as Gabion fill rendered the Maccaferri solution an optimal one.

Client name:

**MINISTRY OF TRANSPORT**

Main contractor name:

**ROAD NO 8—LICOGI JV**

Consultant:

**SWECO-LTEC JV**

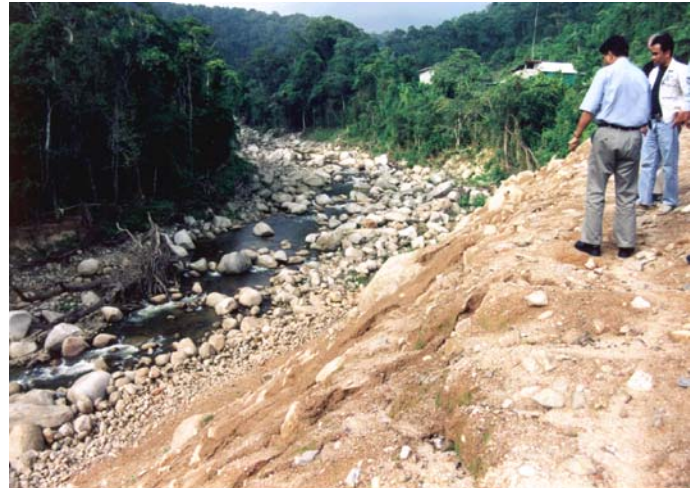
Product used:

**30,000 CUM. OF ZINC COATED GABIONS**

Construction info

Construction date: FEBRUARY 2003

Construction info: MARCH 2004



Before construction

Date: Oct 2002



During construction

Date: July 2003



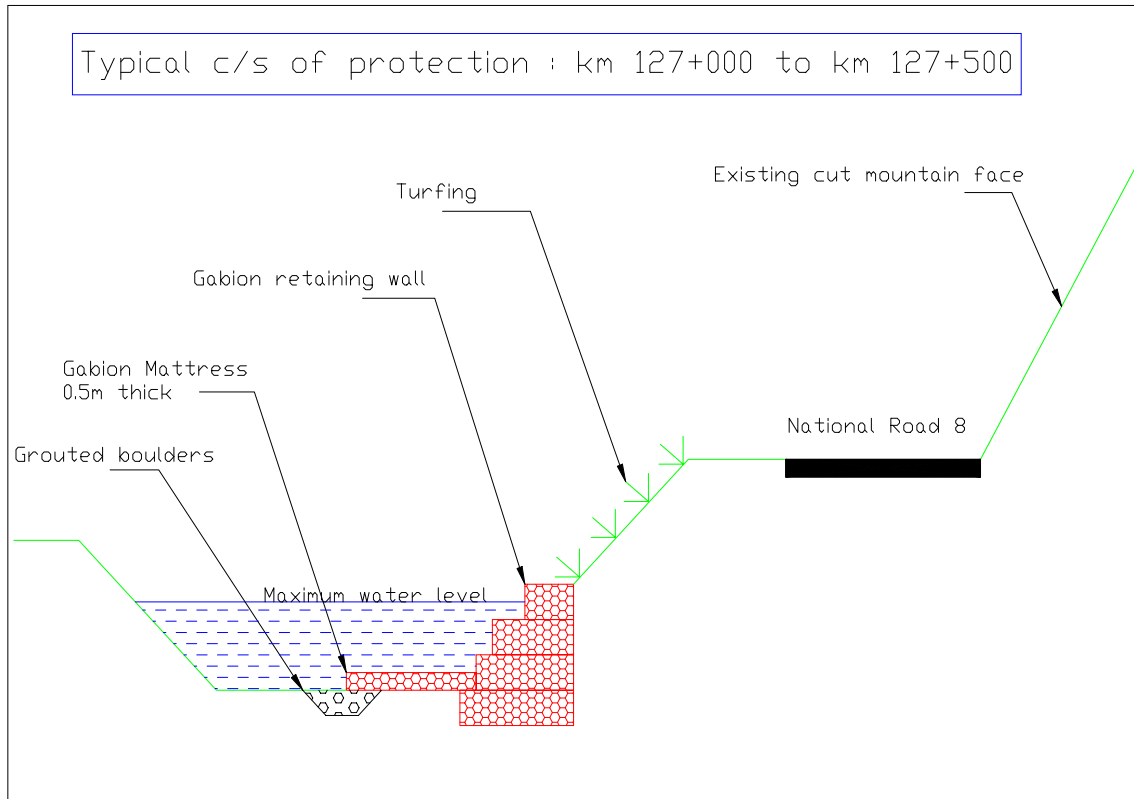
During construction

Date: Dec 2003



Completed structure

Date: March 2004



## Project section

### Maccaferri Asia

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