

HALSEMA HIGHWAY SLOPE PROTECTION

Km 63, Halsema Highway, Philippines

ENVIRONMENTAL / GEOTECHNICAL / SLOPE PROTECTION**Products: Maccaferri MacGrid Geogrids & MacTex Nonwoven Geotextile****Problem**

The Department of Public Works and Highways (DPWH) rehabilitated a portion of the Halsema Highway (also known as Baguio-Bontoc Road or Mountain Trail) where a major landslide has occurred. The project aimed to allow a continuous traffic between the Province of Benguet and the Mountain Province. This Highway is important to the people in both province because it is the only road that provides access of their valuable products (e.g. vegetable, fruits, wines, etc.) to other parts of Luzon.

A 20m-high reinforced earth wall was required to be constructed at 'Kilometer 63', a portion of the Highway affected by landslides. The challenge was to finish the wall before the rainy season starts. Also, the system should be easy to construct, economical and would generate works to the local community.

Solution

The implementing agency (DPWH), the Consultant (BCEOM), the Contractor (Daewoo), together with Maccaferri., agreed that the 'wrap-around' mechanically-stabilized earth wall system using Maccaferri MacGrid geogrids was the best solution for the slope protection.



During Construction

Project Owner

Daewoo E & Co., Ltd

General Contractor

Daewoo E & C. Co., Ltd

Consultant

BCEOM

Maccaferri Products

8,200 sq.m. MacGrid Geogrids
8,000 sq.m. MacTex Nonwoven Geotextiles

Construction Info

Start of Construction : November 2005

Completion Date : May 2006



During Construction

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MACCAFERRI



During Construction

February 2006



Project Completed

May 2006

MACCAFERRI (PHILIPPINES), INC.

Unit 30-C, 30th Floor, Rufino Pacific Tower, 6784 Ayala Avenue, Makati City 1226, Philippines

Tel. and Fax. (+63-2) 813-0211

E-mail: sales@maccaferri.com.ph Web site: www.maccaferri.com.ph



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