

THE CASITAS AT CANYON RANCH SLOPE PROTECTION

Carmona, Cavite, Philippines

ENVIRONMENTAL / GEOTECHNICAL / MECHANICALLY-STABILIZED EARTH
 RETAINING WALL / SOIL REINFORCEMENT / SLOPE PROTECTION
 Products: Maccaferri Green Terramesh, MacGrid Geogrid, MacTex Non-woven
 Geotextile

Problem

A 9m-meter high retaining wall in The Casitas Project by Century Communities Corporation (CCC) was deigned to separate the upper and lower blocks of residential units. Initial design required a retaining wall with concrete blocks fascia but was found to be unsuitable. A green slope finish was preferred instead since the area was also planned as the exhibit spot in promoting the ongoing development. Also, cost was one of the factors that must be considered in the proposal.

Solution

The CCC (Project Owner) has favorably accepted the proposal submitted by Maccaferri Philippines, Inc. using **Green Terramesh System** (with 70 degrees facing angle) for the first six meters height of reinforced slope. Halfway through the construction, the Owner decided to increase the height of the reinforced slope to nine meters in total. **MacGrid Geogrid Wrap-around System** was designed for the remaining height of the slope. The slope fascia was later hydro-seeded for vegetation and green facing.

A field engineer supervised the installation to ensure that the soil was compacted according to the requirements. The combined system provided the aesthetic finish required by the Owner without compromising the integrity of the slope.



Before Construction

June 2007



During Construction

June 2007

Project Owner

Century Communities Corporation

General Contractor

VJS Builders

Consultant

Maccaferri Products

1,755 sq.m. Maccaferri Green Terramesh
 878 sq.m. MacGrid Geogrid
 10,260 sq.m. MacTex Geotextile

Construction Info

Start of Construction : June 2007

Completion Date : October 2007

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MACCAFERRI



Near Completion

October 2007



Project Completed

November 2007

MACCAFERRI PHILIPPINES, INC. (formerly Philippine Gabions, 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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