

**BASECO COMPOUND RECLAMATION
TONDO, MANILA CITY, NATIONAL CAPITAL REGION, PHILIPPINES**

Seawalls and Shoreline Structures

Problem

The Philippine Reclamation Authority (PRA) has proposed another 10 hectares reclamation project for a socialized housing at the Bataan Shipping and Engineering Company (BASECO) Compound, Tondo, Manila City, Philippines. This project was an extension of the previously constructed 256-hectare reclamation project of PRA.

The project was awarded to FF Cruz & Construction, Inc. A containment wall (revetment) was needed on the existing breakwaters to protect the reclamation area from coastal erosion resulting from effects of waves and tidal changes. The contractor decided to look for an alternative system that would work for the same objective of protecting compacted backfill materials behind the revetment against erosion while making use of qualified dredged sediments.

Solution

Based on an existing design, Maccaferri materials have been qualified and approved for the project.

Maccaferri's MacTube made from high-strength woven polypropylene geotextile combined with its woven polyester geotextile for basal reinforcement as well as MacTex nonwoven geotextile for filtration, separation and protection have been successfully installed in the project.

Moreover, Maccaferri gabions have been placed on top of the rock armour layer to serve as barriers for road.

Client: Philippine Reclamation Authority

Contractor: FF Cruz & Construction, Inc.

Products used (Qty.)

- MacTube Coastal 1,200 l.m.
- MacTex Non-woven Geotextile 11,200 sq.m.
- MacTex WR12S 21,700 sq.m.
- Gabion 950 pcs.

Date of construction: 12/2008 - 03/2009



Before Construction



Before Construction



During Construction



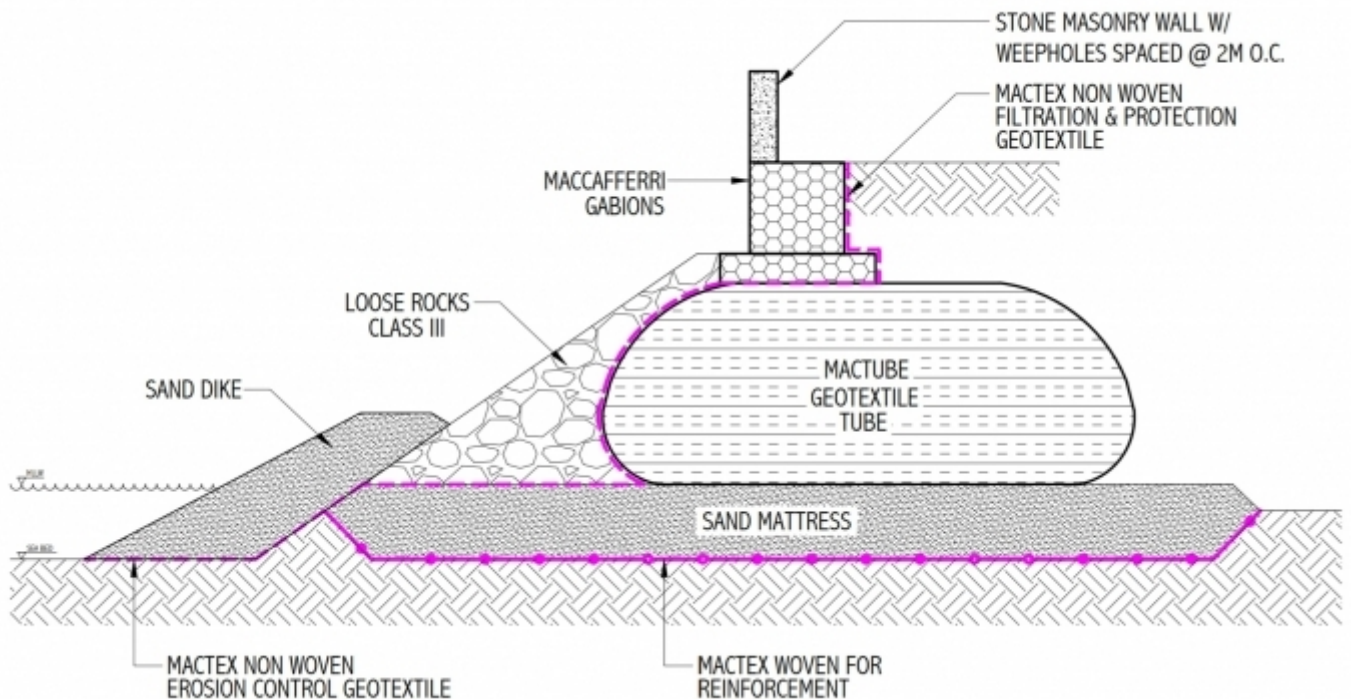
During Construction



During Construction



Near Completion



Schematic representation

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