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RIVER REVETMENT IN WAY LIRANG SERAM ISLAND, MALUKU, INDONESIA

Longitudinal Protection

Problem

Way Lirang is located in the South-West of Seram Island, Maluku Province of Indonesia. An unconfined river body was threatening the surrounding areas, populated by the local community, with frequent floods coming during the rainy season.

The objective was to build a dike in order to confine the high water flow level avoiding thus the flooding of the areas in its vicinity. The dike was planned to be build with locally available loose soil (mainly sandy clay).

Solution

The Public Works Department decided therefore to build the dike and to cover it with a durable and flexible revetment system to prevent the erosion of the fine soil particles. It has been decided to protect the dike using Reno Mattresses (thickness 30 cm). Reno Mattresses allow tangential river flow velocities up to 6m/s without any substantial damage (according to the test results gathered during the Colorado State University hydraulic test campaign). Mattresses are also very flexible modular elements which allow high levels of deformation and settlements without compromising the lining integrity. Reno Mattresses have shown to be a valid alternative to the traditional lining systems used in Indonesia (rip-rap or masonry walls) both in terms of flexibility, durability and cost effectiveness.

Client: MINISTRY OF PUBLIC WORKS

Designer / Consultant: N/A

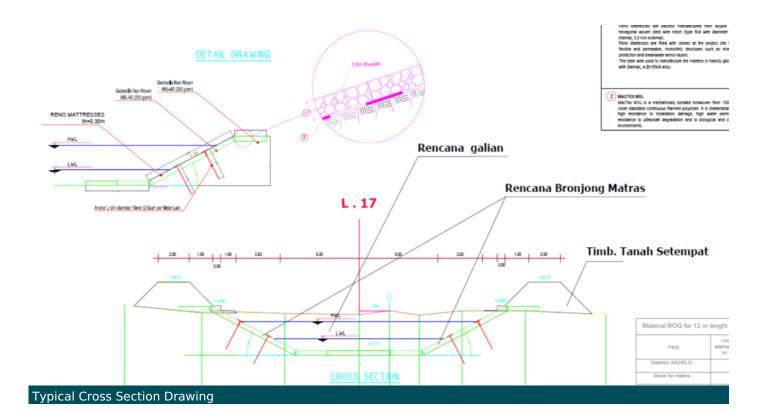
Contractor: N/A

Products used (Qty.)

- Reno Mattress N/A **Date of construction:** 07/2015 - 12/2015







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