MACCAFERRI

CASE HISTORY

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PARAMESH WALL SYSTEM UNTUK RUMAH DINAS GUBERNUR KALIMANTAN UTARA

TANJUNG SELOR, KALIMANTAN UTARA, INDONESIA

Reinforced Soil Walls and Slope Reinforcement

Problem

The Governor's Official Residence is in a hill area with uneven terrain, requiring special protection for slopes to ensure stability and safety. Unreinforced slopes are at risk of landslides or soil movement, especially during the rainy season, which could threaten surrounding structures, including the main access road to the residence. If not properly addressed, disruptions to this access road could hinder mobility and activities in the area, posing risks to residents and road users.

Therefore, an effective retaining wall solution is needed to maintain slope stability and ensure safety and smooth operations in the area. With Maccaferri's solution, the access road to the Governor's Official Residence will be protected from soil movement and erosion risks. This solution also contributes to maintaining infrastructure durability in the long term, ensuring comfort and safety for all road users in the area.

Solution

The Paramesh System – MSE Wall is an innovative solution for a strong, flexible, and efficient retaining wall. This system is designed to provide optimal stability for slopes and infrastructure that require protection against soil movement. Compared to conventional concrete retaining walls, the Paramesh System offers faster installation while minimizing the need for heavy materials and extensive casting work, making the construction process more efficient.

One of the key advantages of the Paramesh System is its flexibility to adapt to various soil conditions, including uneven terrain or areas prone to soil movement. Additionally, this system allows natural drainage, reducing water pressure behind the structure, which enhances its resilience against environmental changes. From a cost perspective, the Paramesh System is more competitive than concrete walls as it reduces material requirements and construction time, making it an economical solution without compromising quality and long-term durability.

Client: Dinas PU Provinsi Kalimantan Utara
Designer / Consultant: Maccaferri Indonesia
Contractor: PT. Putra Nanggroe Aceh
Products used (Qty.)

- Terramesh	452 units
- PP/PE Woven Geotextiles	4200 m2
- Drainage Geocomposites	292.5 m2
- Macmat Hs	2000 m2
- MonoAxial GeoGrids	11960 m2

Date of construction: 01/2024 - 03/2024

Google Maps Google Earth



Before Construction



During Construction



Finished Construction

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