ABSTRACT

The Bujangga street is a provincial road that connects Bayur Bay and Redeb Bay. This road is also the economic center for the people at Bayur Bay and Redeb Bay. Therefore, the existence of this road is needed by the people around. The landslides that occurred in the past year causing a severe damage that it cannot be passed, whereas the road is the only way to access the airport.

This Final Project aims to plan reinforcement to evaluate the existing reinforcement and solve the landslides over the Segah riverbank. The reinforcement alternative planned is using sheet piles, micropiles, and piles. Sheet pile will be analyzed using two methods, which are: sheet piles analysis as sheet piles and sheet piles as micro piles. Actually, the sheet piles reinforcement has been applied to the road but the landslides was still occurred. The analysis is also aimed to evaluate the applied reinforcement in the road.

The soil reinforcement used in the planning is by using combination of piles and micropiles. The required amount of piles are 7 rows/m and micropiles are 6 rows/m. The costs required for the piles and micropiles erection is Rp 48,891,760,000.00.

Key Words: Landslides. Bujangga Street. Segah River, Berau, East Kalimantan, Sheet piles, Micropiles, Piles.
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