

ABSTRAK

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Kota Bandung merupakan kota terletak diProvinsi Jawa Barat, saat terdapat 9 ruas jalan tol beroperasi yaitu Tol Bocimi, Cipularang, Padaleunyi, Cipali, Palikanci, Cijangan, Soroja, Cisumdawu, Japek II Selatan. Tugas Akhir, analisis kemiringan alami bangunan diatasnya dilakukan STA 30+950.

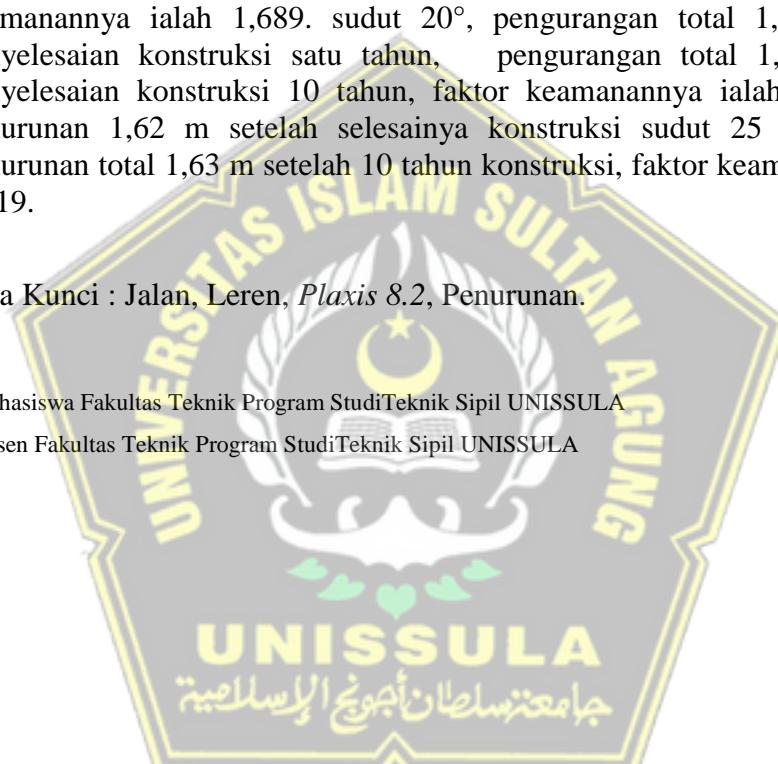
tugas akhir, faktor keamanan penurunan tanah dibandingkan berbagai sudut kemiringan 10° , 20° 25° .

Pmodel kemiringan 10° , total 1,22 m kurang 1 tahun setelah selesainya konstruksi, total 1,25 m kurang setelah 10 tahun konstruksi, faktor keamanannya ialah 1,689. sudut 20° , pengurangan total 1,36 m setelah penyelesaian konstruksi satu tahun, pengurangan total 1,38 m setelah penyelesaian konstruksi 10 tahun, faktor keamanannya ialah 1,412. Total penurunan 1,62 m setelah selesainya konstruksi sudut 25° satu tahun, penurunan total 1,63 m setelah 10 tahun konstruksi, faktor keamanannya ialah 1,319.

Kata Kunci : Jalan, Leren, Plaxis 8.2, Penurunan.

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ABSTRACT

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Bandung City is a city in West Java Province. There are currently 9 toll roads in operation, namely Bocimi, Cipularang, Padaleunyi, Cipali, Palikanci, Cijangan, Soroja, Cisumdawu, Japek II Selatan. In the final project, the slope of the natural slope analysis of the development project above it is managed at STA 30+950.

In this final project, the safety factor and soil settlement were compared at various inclination angles of 10°, 20° and 25°.

In the model with a slope of 10°, the roof is completely reduced by 1.22 m after 1 year, and by 1.25 m after 10 years, so the safety factor is 1,679. At an angle of 20°, the top angle is completely reduced by 1.36m after 1 year, and the top angle is completely reduced by 1.38m after 10 years, so the safety factor is 1.412. At an angle of 25°, the apex angle is completely reduced by 1.62 m after 1 year, and the apex angle is completely reduced by 1.63 m after 10 years, so the safety factor is 1,319.

Keywords: Road, Slope, Plaxis 8.2, Decrease.

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