

ABSTRACT

Title: Cost Evaluation of Foundation Work Using Bored Pile with Spun Pile on Monroe Tower Jababeka Project, Name: Ahmad Barri, NIM: 41117310049, Supervisor: Anjas Handayani, ST., MT., 2018.

There are various types of planning that are used in the lower structure work. This is caused by several factors, namely the condition of the surrounding environment (right and left of the apartment), differences in land contours, loads that will work in supporting buildings, and cost efficiency. In its implementation, the foundation erection process raises vibrations and noise where the project location is close to other housing and apartments that have been completed so that other types of foundation are needed to reduce the negative impact on environmental aspects surrounding the project. The purpose of this study is to identify the dominant factors arising from the implementation of the spun pile foundation that has an impact on the environment and evaluate the cost of the spun pile foundation and bored pile foundation work. This research was carried out by distributing questionnaires to 5 experts to conduct validation on the use of foundations viewed from environmental aspects and using project data to make these price comparisons. From the results of the study, it was concluded that the bored pile foundation is a suitable foundation for the construction of Monroe Tower Jababeka, viewed from the environmental aspects with a cost that is relatively more economical than the cost of the spun pile foundation with the difference in the cost of Rp 154.730.000,-.

Keywords: Comparison of Costs, Foundation of Bored Pile, Foundation of Spun Pile, Environmental Aspects



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