THE ANALYSIS OF WELL FOUNDATION LOAD SUPPORT AT FLY-OVER BRIDGE PROJECT PLAN ON KI MAJA - RATU DIBALAU ROAD IN BANDAR LAMPUNG

By

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ABSTRACT

The well foundation is a transitional form between shallow and pile foundations. Foundation bearing capacity wells are obtained from the end bearing capacity is obtained from the pressure of carrying the pole and slide or blanket were obtained from the carrying capacity of friction or adhesion force between the wells and the soil surrounding the foundation. The objective of this research was to analyze the estimation of strong and secure the well foundation load support capacity by considering the soil examination result. This research was expected to provide referential benefits in determining types of foundation to use for a certain construction building and introducing the foundation use for public. The analysis would only be on the the well foundation for fly-over bridge in Ki Maja – Ratu Dibalau road, in Bandar Lampung.

The analysis was started by collecting required data for evaluating the analysis of the well foundation load support at fly-over bridge project plan in Ki Maja - Ratu Dibalau road in Bandar Lampung. Data were collected from CV. Jaim and associate and by literary study.

The results showed different foundation load support capacity in each abutment and pillar. Abutment 1 the well foundation load support capacity will be planned with 3 m of the diameter and 3,75 m of the depth, it would need 2 foundations. Abutment 1' the well foundation load support capacity will be planned with 3 m of the diameter and 3,5 m of the depth, it would need 2 foundations. Abutment 2 the well foundation load support capacity will be planned with 3 m of the diameter and 5 m of the depth, it would need 2 foundations. Abutment 2' the well foundation load support capacity will be planned with 3 m of the diameter and 4,80 m of the depth, it would need 2 foundations. Pillar 1 the well foundation load support capacity will be planned with 3 m of the diameter and 4,6 m of the depth, it would need 3 foundations. Pillar 2 the well foundation load support capacity will be planned with 3 m of the diameter and 3,9 m of the depth, it would need 3 foundations.

Keywords : well foundation, foundation bearing capacity