

ABSTRACT

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Crossing Bridge Light Rail Transit Construction Project. Pile Cap work Implementation Methods and Pile Cap Concrete Volume Calculation Crossing Bridge.

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The Rasuna Said Crossing Bridge Light Rail Transit Development Project is located on Jl. H.R. Rasuna Said, Karet Kuningan, Setiabudi, South Jakarta. The Rasuna Said Crossing Bridge Light Rail Transit Development Project is a project being worked by PT. Adhi Karya as Main Contractor and PT. Adhi Persada Gedung as Sub Contractor. This building was built on an area of 39,290 m². The type of contract used is Lump Sump with a contract value of Rp. 1.583.128.800.000,-. The components of crossing bridge cannot be separated from the foundation, columns, beams, floor slabs, and roof. The specific problems taken are Pile Cap implementation methode and calculating of pile cap casting volume requirement. Implementation pile cap methode include preparation, excavation work, breaker working, iron work, formwork, checking the reinforcement by the quality control and concrete work. The volume requirements for Pile Cap is 7,42 m³ and needed 2 truck mixer vehicles with a ready mix capacity of 5 m3.

(XIII + 47 + 11)

Keywords : Implementation Methods, Pile Cap