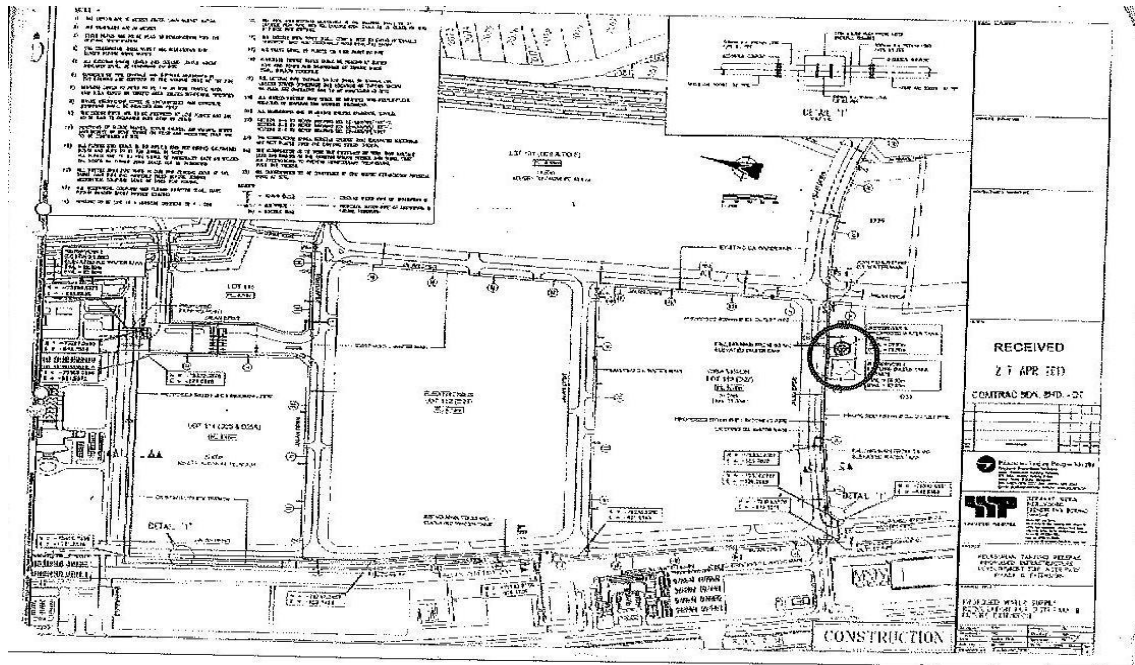


# A STUDY INTO PREPARATION OF BILL OF QUANTITY OF PILING AND SUB-STRUCTURE WORK TO AN ELEVATED WATER TANK AND COSTING

Prepared by: Hiranuma Masaru

## ABSTRACT

Every single area requires an elevated water tank, and an elevated water tank requires a foundation to support heavy load of water. The foundation is to ensure the stabilities and the safety to the people nearby, therefore a foundation and substructure is absolutely influential to a structure. The consideration of choosing types of foundation is depend on the soil condition, type of structure and the amount of load it's going to support, other than that we may consider the surrounding situation for example if the construction site is surrounded by high rise building.



Red Color: Location of the Elevated Water Tank

For this Final Year Project **Pelabuhan Tanjung Pelepas Proposed Infrastructure Development For Dis Tri Park JOHOR construction project** has been chosen as my case study. This construction project is still ongoing and it is supposed to complete in the next few month time, and it's located at Johor. The information I have obtain for this project is from a sub-contractor working in this project.

For this Final Year Project, will introduce the title whereby explaining what is an elevated water tank, types and size of an elevated water tank and why, how we choose the elevated water tanks. And also what is a spun pile, sub-structure works, BQ and other relevant subject in order to let the readers who are fresh in this field to understand what those things are and understand how to prepare and have an idea on the procedures needed t prepare an BQ after reading this report. In this report I will also mention on the

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methods of calculating unit rates, cost estimation and preparing of BQ and taking off paper. Other than that I will also mention on how the spun pile is piled into the ground and what are those item involved in my BQ and calculation.