

# COMPARISON STUDY ON VARIOUS FOUNDATION TYPES AND DESIGN OF A PILE FOUNDATION

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## ABSTRACT

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Foundation in general can be classified into two types which are shallow and deep foundations. The main function of foundation is to prevent any differential settlement or possible movement of a structure. This project will cover on 3 types of foundations: they are pile foundation, mat/raft foundation, and spread footing foundation. Apart from that, this project will look further into the design concept, suitability, applicability, pros and cons, and durability. A simple pile cap design step and calculations based on the prevalent British code of practice; BS 8110 will be shown at the end of this project report.