

DESIGNING PILE CAP AND PILE FOUNDATION USING COMPUTER PROGRAMMING

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ABSTRACT

A strong foundation is very important for all the civil work. In pile system pile cap were designs in order to let the column rest on it. This project is divided into 2 parts and they are interrelated. The first parts, piles cap and pile foundation design using computer programming. Manual calculation converted into computer programming and allowed practicing engineer practice. Second part, typical drawing for all the piles. Which the drawing will show two piles to ten piles. All the dimensions and sectional views for each pile cap are drawn and allocated in the program to let the practicing engineer have a look while executing program.

A user guide was enclosed to help the user to get start with the program. While manual calculations were at the back to show that manual calculation answer is name as using a computer program.