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DESIGN OF REINFORCED CONCRETE WATER TANK

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DESIGN OF REINFORCED CONCRETE WATER TANK

An Undergraduate Design Project
Submitted to the Faculty of the
Cavite State University
Indang, Cavite

In partial fulfillment
of the requirements for the degree of
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ABSTRACT

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The study on the "Design of Reinforced Concrete Water Tank" was conducted at the Cavite State University, Indang, Cavite from December 1999 to March 2000. Specifically, it was aimed to provide a design plan, specification and a detailed cost estimate of the project.

The storage capacity of the reinforced concrete water tank was 89,000 liters and was waterproofed by Sahara Water Proofing and an elastometric paint.

Results of the study revealed that the project can supply 49% of the total water requirement of the Sprinkler Irrigation System Central Experimental Station at the Cavite State University, Indang, Cavite and the total cost of the project was P 304,000.00.

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DESIGN OF REINFORCED CONCRETE WATER TANK ^{1/}

Troy I. Matilla

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INTRODUCTION

Nature has many resources that when properly developed can give several important uses. One of these natural resources is the water resources that when properly and economically developed will be a good source of water supply.

Natural water resources often have a continuous flow of water. In some instances, water from these resources goes directly to waste. Collecting this excess water and storing it for future use will serve as a supplement in the water supply system.

In utilizing the water resources, a well and broad knowledge in designing a water reservoir should be considered. It is a good practice in the field of civil engineering to develop an economical design of water supply reservoir.