

HIGHER TECHNICAL INSTITUTE

CIVIL ENGINEERING DEPARTMENT

DIPLOMA PROJECT

FOUNDATIONS FOR MULTISTOREY  
BUILDINGS

C/894

BY

AGATHANGELOU MENELAOS

JUNE 2000

**HIGHER TECHNICAL INSTITUTE**

**CIVIL ENGINEERING DEPARTMENT**

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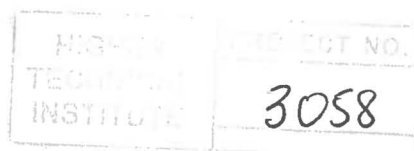
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**BY**

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# FOUNDATIONS FOR MULTISTOREY BUILDINGS

BY

AGATHANGELOU MENELAOS

Project report

Submitted to

the Department of Civil Engineering

of the Higher Technical Institute

Nicosia-Cyprus

In partial fulfillment of the requirements

of the diploma of

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IN CIVIL ENGINEERING

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## **ACKNOWLEDGEMENTS**

I would like to express my sincere appreciation and thanks to my project supervisor Mr G. Tjionis for his valuable guidance during the preparation of this project and to thank all those who have helped me in any way.

## DEDICATIONS

I would like to dedicate this project to my parents

AGATHANGELOU ANDREAS

AGATHANGELOU ELENI

For their support and guidance during my year of studies at the Higher  
Technical Institute

# **SUMMARY**

## **FOUNDATIONS FOR MULTISTOREY BUILDINGS**

**BY**

**Agathangelou Menelaos**

The purpose of this project was to learn about the various types of foundations for multistorey buildings, to learn how foundations are constructed, how to deal with construction and design problems and learn tricks for working at various site conditions.

# CONTENTS

Soil

**CHAPTER 1** Soil Analysis for Design of foundations

**CHAPTER 2** Foundation types

**CHAPTER 3** Case Study

The engineer

agencies

account

Before the

carefully

Simple foundation

very elastic

obtained, with data

to his own judgement

A thorough analysis of soil for design of foundation

investigation will consider the best performance

samples and application of theory of soils

The procedure for

have to be taken

type of soil are

Site investigation

A site investigation

building structure

of the surface

soil and ground water

of borings and