HIGHER TECHNICAL INSTITUTE
CIVIL ENGINEERING COURSE

DIPLOMA PROJECT

PRODUCTION OF DRAWINGS WITH THE AID OF
A CAD PACKAGE

by
ANDREOU ANTONIA
(C/8[illegible]

JUNE 1997

HIGHER TECHNICAL ISTITUTE

CIVIL ENGINEERING COURCE

DIPLOMA PROJECT

PRODUCTION OF DRAWINGS WITH THE AID OF A CAD PACKAGE

BY

ANDREOU ANTONIA

(C / 821)

JUNE 1997

HIGHER TECHNICAL INSTITUTE
PROJ
2782

PRODUCTION OF DRAWINGS WITH

THE AID OF A CAD PACKAGE

BY

ANDREOU ANTONIA

Project Report

Submitted to:

THE DEPARTMENT OF CIVIL ENGINEERING

of the

HIGHER TECHNICAL INSTITUTE

NICOSIA, CYPRUS

in the partial fulfilment of the requirements
for the diploma of

TECHNICIAN ENGINEER

in

CIVIL ENGINEERING

C / 821

JUNE 1997

HIGHER TECHNICAL INSTITUTE

NICOSIA - CYPRUS

CIVIL ENGINEERING DEPARTMENT

Academic Year 1996 / 97

Diploma Project Number: C / 821

Title: Production of Drawings with the Aid of a CAD Package

Objectives:

1. To discuss in general the applicability of computers in the production of drawings.
2. To get familiar with a CAD Package.
3. To produce drawings with the Aid of the CAD Package.

Terms and Conditions:

1. To CAD Package to be used will be agreed with the project supervisor.
2. The drawings will be provided by the supervisor.

Student : Andreou Antonia (3CE2)

Supervisor : Mr. Andreas Kkolos

External Assessor : Mr. Kyriakos Kyriakou

LIST OF CONTENTS

	Page No
1. Acknowledgements	1
2. Summary	2
3. Introduction	3 - 4
4. Hardware requirements	5 - 10
• 4.1 System Unit	5
• 4.2 Monitor	5
• 4.3 Hard disc, Floppy Dick, CD - ROM drives	5 -6
• 4.4 Mouse	6
• 4.5 Digitising tablet	7
• 4.6 Printer	7 - 8
• 4.7 Plotter	8-9
5. Getting into the AutoCAD program	11
6. Main Menu	12 - 14
7. Standard Menus	15 -19
• 7.1 Screen Menus	16
• 7.2 Pull Dawn Menus	16 - 17
8. AutoCAD's command list	20 - 22
9. AutoCAD's AME command list	23 - 25

10. Facilities of AutoCAD's main commands 26 - 41

- 10.1 Layers 26 - 28
- 10.2 Hatch commands 28
- 10.3 Blocks 33 - 35
- 10.4 Dimensioning 36 - 38
- 10.5 Text commands 39 - 41

11. Common commands and operations 42 - 48

12. 3D Design 49 - 53

13. Conclusions 54

14. References 55

15. Figures 56

16. Drawings 57

1. Acknowledgements

I would like to thank my project supervisor Mr.Andrea Kkolo and the Head of my department for their encouraging help and advice on the completion of this project.

I would also want to thank my parents for their morale and material support.

2. Summary

The purpose of the project work was to discuss in general the applicability of computer in the production of drawings, to get familiar with a CAD package, and to produce drawings with the aid of the CAD package.

This project work was done with the use of computer and the program, AutoCAD release 12. To work one with AutoCAD, must have some basic knowledge about DOS operation, some basic commands of AutoCAD just to get into the program, set the screen limits, how to use the appropriate scale, how to use dimensions and some other facilities of the program.

Concluding, what one needs working with AutoCAD is experience. The capabilities of AutoCAD have no limits. Drawing with computer is more accurate, easy and time saving, than the traditional way.