

HIGHER TECHNICAL INSTITUTE

ELECTRICAL ENGINEERING DEPARTMENT

DIPLOMA PROJECT

**DESIGN OF ELECTRICAL SERVICES
OF A POLICE STATION**

E. 1391

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2005/2006

HIGHER TECHNICAL INSTITUTE
NICOSIA - CYPRUS
ELECTRICAL ENGINEERING DEPARTMENT

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Project number: E.1391

Title: Design of Electrical services of a police station

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SUMMARY

This project "Design the electrical services of Palechori new police station" deals with the electrical installation design of Palechori new police station.

The project includes in various chapters the following services:

1. Power Supply System (Essential and non-essential loads)
2. Stand-by supply system by using a generating set
3. Lighting system
4. Small power system
5. Structure Cabling
6. Fire Alarm System
7. UPS system

The first two chapters deals with the calculations of lighting circuits and small power circuits and the other chapters deals with the specifications of all services included in this project.

At the end of the project the Appendices and drawings were also included.

Introduction

The electrical installation design was carried out according to the IEE wiring Regulations 16th Edition, according to EAC local regulations and according to CYTA requirements for the telephone installation.

1. Power Supply System (Essential and non-essential loads)
2. Stand-by supply system by using a generating set
3. Lighting system including Emergency and Exit System
4. Small power system
5. Structure Cabling
6. Fire Alarm System
7. UPS system