

HIGHER TECHNICAL INSTITUTE
ELECTRICAL ENGINEERING DEPARTMENT

DIPLOMA PROJECT

**DESIGN OF THE ELECTRICAL SERVICES
OF A FACTORY**

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BY

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JUNE 1998

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| HIGHER TECHNICAL INSTITUTE | PROJECT NO. <i>2869</i> |
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PAPADOPOULOS CHRISTODOULOS

**PROJECT REPORT SUBMITTED TO THE DEPARTMENT
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Mr. J. Demetriou

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DRAWINGS

*To my family for its support and encouragement
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INTRODUCTION

The project, as its title states, is the design of the electrical installation of a factory (G.P.A. MARBLE CO. LIMITED FACTORY). More specifically the basic aims to study were the following:

- a. Power
- b. Lighting
- c. Fire Alarm System
- d. Intruder (Burglar) Alarm System
- e. Telephone Installation

The lighting load was determined in accordance with the study of the illumination engineering work. During the illumination design care was taken so as all the requirements used to comply with CIBS codes for interior lighting. The selection of the required number, kind of position of any other load had been taken after an examination of the work carried at each area.

In carrying out the design of the whole installation the I.E.E. (16th Edition) Regulations as well as the local regulations established by the E.A.C. were taken into consideration.

Great concern is given about safety. The installation of the fire alarm system complies with BS 5839 and the installation of the intruder alarm system complies with BS 4737.

Internal and external communication must be provided at all times by the telephone installation of the factory which was designed considering all C.Y.T.A. requirements and regulations.