

HIGHER TECHNICAL INSTITUTE

ELECTRICAL ENGINEERING COURSE

DIPLOMA PROJECT

**DESIGN OF THE ELECTRICAL SERVICES
AND SPECIALISED ELECTRICAL SERVICES
OF A LUXURY HOUSE**

E.1366

TELEMACHOU CHARALAMBOS

JUNE 2004

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DESIGN OF THE ELECTRICAL SERVICES AND SPECIALISED ELECTRICAL SERVICES OF A LUXURY HOUSE

By: **TELEMACHOU CHARALAMBOS**

Project report submitted in partial fulfilment of the requirements for award of the Diploma of Technician Engineer in Electrical Engineering of the Higher Technical Institute.

Project supervisor: Mr. George Kourtellis

Type of project: **INDIVIDUAL**

JUNE , 2004

HIGHER TECHNICAL INSTITUTE	PROJECT NO
	3521

I would like to express my thanks to my project supervisor Mr. George Kourtellis for his guidance during the whole process of this project and to my parents for the support they offered me through the years at the H.T.I.

By: TELEMACHO

This project deals
electrical services
drawings and signs.

DESIGN OF THE ELECTRICAL SERVICES AND SPECIALISED ELECTRICAL SERVICES OF A LUXURY HOUSE

By: TELEMACHOU CHARALAMBOS

This project deals with the electrical installations and the specialised electrical services of a luxury house , including specifications, drawings and typical calculations of the design.

The design of the electrical installations and the specialised electrical services of a luxury house is represented in this project report.

Objectives:

- 1) To design the complete electrical installation of a luxury house which includes the following:
 - a. Power
 - b. Lighting
 - c. Telephone and TV distribution
 - d. Lightning protection
 - e. Fire and burglar alarm
- 2) To provide all necessary diagrams , shedule of materials and costing including labour.

Terms and Conditions:

- 1) Three-phase 415V rms , 50Hz , T.T. earthing system
- 2) Architectural drawing will be provided
- 3) The IEE Wiring Regulations 16th Edition as currently amended and the local E.A.C conditions of supply must be complied
- 4) The illumination design must be in accordance with the CIBS code
- 5) CYTA requirements to be taken into consideration

2.3.3 Calculations for

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