

HIGHER TECHNICAL INSTITUTE
NICOSIA - CYPRUS

CIVIL ENGINEERING COURSE

DIPLOMA PROJECT

A STUDY ON ROAD JUNCTIONS
IN CYPRUS

C / 609

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S U M M A R Y

The present project is a general study on road junctions. the whole project can be divided in two parts.

The first part deals with the major types of junctions their design principles, the provisions for safety, for pedestrians. Also introduces the new urban traffic signal control systems ranging from the fixed time signal programs to the fully responsive control systems.

In the second part of this project an investigation of a given number of junction of Nicosia was carried out. Each case was examined separately and possible solutions suggested so as to improve or solve the existing problems or situations.

C O N T E N T S

S U M M A R Y

CHAPTER 1: JUNCTIONS -GENERAL CONSIDERATIONS

- 1.1 INTRODUCTION
- 1.2 TYPES OF JUNCTIONS
- 1.3 DESIGN PRINCIPLES

CHAPTER 2: PRIORITY (MAJOR/MINOR) JUNCTIONS

- 2.1 PRINCIPLES OF DESIGN
- 2.2 SAFETY
- 2.3 PEDESTRIAN FACILITIES
- 2.4 BASIC TYPES OF MAJOR/MINOR JUNCTIONS

CHAPTER 3: ROUNDAABOUTS

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- 3.3 SAFETY
- 3.4 PROVISION FOR PEDESTRIANS AND CYCLISTS

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- 4.1. BASIC PRINCIPLES
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- 4.3 FACILITIES FOR CYCLISTS AND BUS STOPS

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- 5.3 SIGNAL PHASES, STAGES, CYCLES
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- 6.1 TRANSIT-FIXED TIME SIGNAL PROGRAMS
- 6.2 TRAFFIC RESPONSIVE SYSTEMS
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CHAPTER 7: JUNCTIONS IN NICOSIA-SUGGESTIONS FOR IMPROVEMENT

- 7.1 MUSEUM STR-KINYRA STR-EGYPT STR-MARKOS DRAKOS
AVEN - PAPHOS STR. ROUNDABOUT
- 7.2 THE PRESIDENTIAL PALACE ROUNDABOUT
- 7.3 D. SEVERI INTERSECTION
- 7.4 AGLANTZIAS AVENUE -GRIVA DIGENI-ATHINON STR
INTERSECTION
- 7.5 ACADEMI-AGLANTZIA AVENUE INTERSECTION