

HIGHER TECHNICAL INSTITUTE

NICOSIA - CYPRUS

CIVIL ENGINEERING COURSE

DIPLOMA PROJECT

"AT - GRADE" HIGHWAY INTERSECTIONS

C/740

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June, 1995



SUMMARY

The present project is a general study on "at-grade" intersections in Cyprus. The whole project it can be separated into two parts which they are based on the kind of the work done until its final presentation.

The first part it can be titled as the theoretical analysis of "at-grade" intersections and it includes the first three chapters.

The content of these chapters offers to the reader the ability to separate intersections into different groups and to take a general ideal about intersection design.

The second part is more practical once it takes everything that mentioned at the previous chapters and use them to present an intersection improvement.

CONTENTS

SUMMARY

CHAPTER 1: GENERAL CONSIDERATIONS AND OBJECTIVES OF INTERSECTIONS DESIGN

- 1.1. INTRODUCTION
- 1.2. PRINCIPLES OF DESIGN

CHAPTER 2: TYPES OF "AT GRADE" RURAL INTERSECTIONS

- 2.1. GENERAL
- 2.2. PRIORITY JUNCTIONS
- 2.3. TRAFFIC SIGNAL CONTROL
- 2.4. ROUNDABOUTS

CHAPTER 3: CAPACITY ANALYSIS OF INTERSECTIONS

- 3.1. GENERAL
- 3.2. UNCONTROLLED AND PRIORITY INTERSECTIONS
- 3.3. ROUNDABOUTS

CHAPTER 4: INTERSECTION IMPROVEMENT DESIGN

- 4.1. PRESENTATION OF THE PROBLEMATIC INTERSECTION
- 4.2. POSSIBLE SOLUTION OF THE INTERSECTION

REFERENCES