

**HIGHER TECHNICAL INSTITUTE  
CIVIL ENGINEERING DEPARTMENT**

**DIPLOMA PROJECT**

**TRAFFIC ANALYSIS - INTERSECTION**

**by  
GEORGE ANASTASIOU  
C/805**

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**TRAFFIC ANALYSIS - INTERSECTION**

by

**George Anastasiou**

**Project Report**

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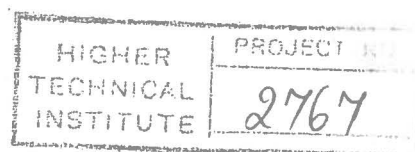
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SUBMITTED BY

George Anastasiou

PROJECT SUPERVISOR

Mr. Kathijotes Nicos

**OBJECTIVES :**

1. To define all conflict points and problems that may occur at a traffic intersection, including traffic problems.
2. To take actual traffic counts at a specific intersection.
3. To illustrate various methods that ease traffic flow at an intersection.
4. To carry out accidents analysis.
5. To suggest specific corrective methods that will be assigned by applicable for the intersection under examination.

## **CHAPTER I**

### **INTRODUCTION**

History testifies that roads can be considered as much a cause as a consequence of civilization. As civilization is advanced and prosperity increases there is an inevitable demand for better and speedier communication facilities.

Transportation planning is a process whose objective, in a broad sense, is to develop a system of transport which will enable people and goods to travel safely and economically. In order to plan transportation facilities it is extremely important to know how (by what mode) people or goods travel, and for what purposes. For this reason origin and destination studies are conducted.

The urban traffic problems which are the most common and serious can occur due to :

- a) very narrow roads
- b) improper parking
- c) shortage of parking facilities
- d) right hand turns

In order to overcome these problems the following should be considered :

- a) safety
- b) ability to travel at reasonable speed
- c) directness
- d) pleasantness
- e) good eye view

Traffic analysis can be defined as the measurement and detailed study of the traffic volume movements, in order to improve the functionality of the road of road system.

In order to achieve a correct analysis and suggest the correct improvements for the intersection under examination the above items are discussed and described on the chapters of this project.