

# Highway Engineering



## HIGHWAYS



### INTRODUCTION

**Highways**:- Highways are special type of road which are designed to permit high speed of vehicles. It is generally constructed over an embankment.

### Advantages:-

- 1. Better drainage facility
- 2. Safety in flood time
- 3. No lateral entry of traffic/ animal/ public.

National highway,  
State highway.

**Expressways**:- Expressways are Superior type of Highways designed as a direct connectivity b/w two places.

Expressways organise the traffic in channelised way.



- 1. Yamuna Express way
- 2. Mumbai - Pune express way.

### DEVELOPMENT OF ROADS :-

- 1. Roman Roads - Plain earth roads
- 2. Turquet Roads - Aggregate used along with soil, stronger material at base like foundation of building.
- 3. Telford construction - used good material on the surface.

Telford - founder of ICE - UK.

- 4. Macadam roads - water + Aggregate + finer material clay.
- 5. Bituminous Macadam.



Roman Roads



Macadam Roads.

### Drawback of Roman Roads

- 1. No Chamber
- 2. No drainage system
- 3. Large foundation stone.

### RECOMMENDATIONS OF JAYAKR. COMMITTEE :-

### HIGHWAY PLANNING IN INDIA

In November 1937 Govt. appointed a road development committee headed by Mr. M.R. Jayakar.

- 1. Road development should be considered as National interest.
- 2. An extra tax should be charged on

# Highway Engineering Notes

**S Ashworth**



## Highway Engineering Notes:

Highway Engineering : CIV. E. 510 : Course Notes J. J. (Jaap Jelle) Bakker, Anderson, K. O, University of Alberta. Department of Civil Engineering, 1980     **Highway Engineering : CIV. E. 510 : Course Notes** J. J. (Jaap Jelle) Bakker, Anderson, K. O, University of Alberta. Department of Civil Engineering, 1984     **Notes for a Short Course on Fundamentals of Highway Engineering** ,1957     *Syllabus X L* Ralph A. Moyer, John Hugh Jones, 1952     **Syllabus X L** Ralph A. Moyer, 1955     *Supplementary Notes and Typical Problems for the Highway Engineering Course C.E. 106* Ralph Alton Moyer, John Hugh Jones, 1950     *Syllabus W C* Ralph A. Moyer, John Hugh Jones, 1950     **Supplementary Notes and Typical Problems for the Highway Engineering Course Civil Engineering 170 (formerly C.E. 106)** Ralph A. Moyer, John Hugh Jones, 1958     Western Conference on Increasing Highway Engineering Productivity, Biltmore Hotel, Los Angeles, California, March 5-6-7, 1957 California. Division of Highways, 1957     **The Highway Engineer & Contractor** ,1919     Principles of Photo Interpretation in Highway Engineering Practice B. Sen Mathur, John F. Gartner, 1964

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