

# 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 - Aggregates 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

**J. J. (Jaap Jelle) Bakker, Anderson, K.  
O, University of Alberta. Department of  
Civil Engineering**

## **Highway Engineering Notes:**

## Whispering the Techniques of Language: An Psychological Quest through **Highway Engineering Notes**

In a digitally-driven world where screens reign supreme and instant conversation drowns out the subtleties of language, the profound secrets and psychological subtleties hidden within phrases often go unheard. Yet, nestled within the pages of **Highway Engineering Notes** a fascinating fictional value blinking with organic thoughts, lies an exceptional journey waiting to be undertaken. Published by a talented wordsmith, that marvelous opus encourages viewers on an introspective trip, delicately unraveling the veiled truths and profound impact resonating within the cloth of every word. Within the emotional depths of this moving review, we shall embark upon a genuine exploration of the book is core themes, dissect its charming publishing type, and fail to the strong resonance it evokes deep within the recesses of readers hearts.

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