

# 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

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## **Table of Contents Highway Engineering Notes**

1. Understanding the eBook Highway Engineering Notes
  - The Rise of Digital Reading Highway Engineering Notes
  - Advantages of eBooks Over Traditional Books
2. Identifying Highway Engineering Notes
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Highway Engineering Notes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Highway Engineering Notes
  - Personalized Recommendations
  - Highway Engineering Notes User Reviews and Ratings
  - Highway Engineering Notes and Bestseller Lists

5. Accessing Highway Engineering Notes Free and Paid eBooks
  - Highway Engineering Notes Public Domain eBooks
  - Highway Engineering Notes eBook Subscription Services
  - Highway Engineering Notes Budget-Friendly Options
6. Navigating Highway Engineering Notes eBook Formats
  - ePub, PDF, MOBI, and More
  - Highway Engineering Notes Compatibility with Devices
  - Highway Engineering Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Highway Engineering Notes
  - Highlighting and Note-Taking Highway Engineering Notes
  - Interactive Elements Highway Engineering Notes
8. Staying Engaged with Highway Engineering Notes
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Highway Engineering Notes
9. Balancing eBooks and Physical Books Highway Engineering Notes
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Highway Engineering Notes
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Highway Engineering Notes
  - Setting Reading Goals Highway Engineering Notes
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Highway Engineering Notes
  - Fact-Checking eBook Content of Highway Engineering Notes
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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