



ROUTINE ROAD MAINTENANCE

Version 2008





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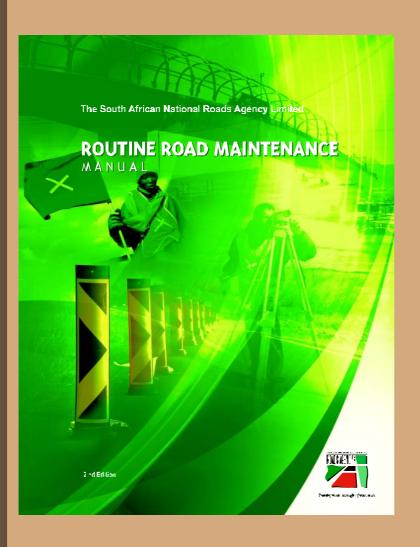
APPENDICES: NEW VERSION (2008)

- A. TYPICAL CROSS SECTIONS AND ROAD NOMENCLATURE
- B. EXTRACTS FROM CHAPTER 13, VOLUME 2 OF THE SOUTH AFRICAN ROAD TRAFFIC SIGNS MANUAL
- C. OCCUPATIONAL HEALTH AND SAFETY
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CHAPTER 1: Introduction



Intention of the Manual

 Other Manuals and Information



CHAPTER 2: Road Management



- Management Duties and Inspections
- Pavement Information
- SANRAL's Management Strategy
- Contract Rates and Quantities
- Availability of Materials
- Maintenance of Problems
- Methods for Addressing Problem Areas
- Special Circumstances
- Capacity Building









CHAPTER 3: Priorities

- Provide a safe and acceptable level of service for the travelling public
- Maintain the condition
 of the road such that
 maximum life is
 obtained from the road/
 asset preservation
- Ensure that the road environment is attractive (aesthetically pleasing)







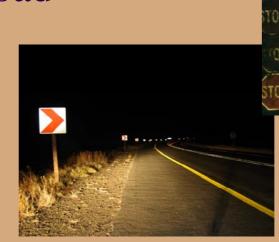
CHAPTER 4: Road Safety

Introduction

Signs and Road

Markings

Hazardous Locations





Road Safety Equipment

· Good Night Time Visibility





CHAPTER 5: Environmental Management

Introduction

EnvironmentalManagement Plan(EMP)

OtherEnvironmentalInformation









CHAPTER 6: Occupational Health and Safety

OCCUPATIONAL
HEALTH
AND SAFETY ACT
AND
REGULATIONS

85 OF 1993 (Full Version)

Fourth Edition



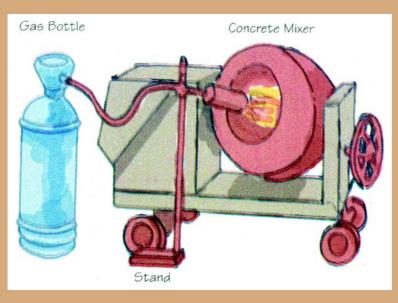








CHAPTER 7: Road Pavement Repairs - General



- Introduction
- Materials
- Asphalt Mixes and Mixing
- Equipment
- Repair of Road Failures

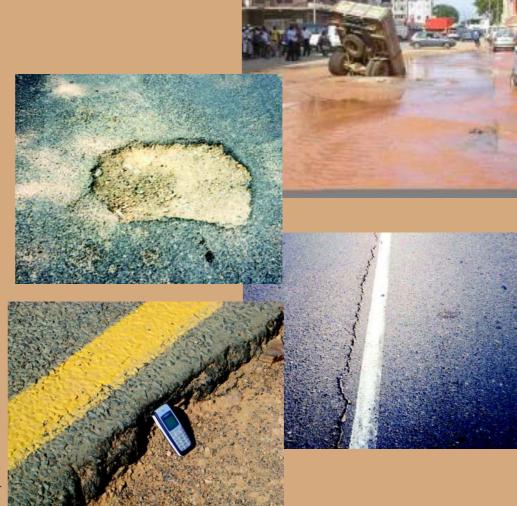






CHAPTER 8: Road Pavement Repairs – Flexible Pavements

- Surfacing Failures
 - Description
 - Causes
 - Extent
 - Response Time
 - Repair
 - Caution
- Potholes
- Pavement Failures
- Cracks
- Pumping
- Deformation
- Texture
- Shoulders surfaced
- Shoulders gravel







CHAPTER 9: Road Pavement Repairs – Rigid Pavements

- Introduction
- Loose/ Spalled Concrete
 - Description
 - Causes
 - Extent
 - Response Time
 - Repair
 - Caution
- Joints/ Open Cracks
- Weeds







CHAPTER 10: Drainage



- Introduction
- DrainageMaintenance
- Erosion Control









CHAPTER 11: Geotechnical and Slope Stability

Introduction

Slope Management

System

Response

Soil/ RockProblems







CHAPTER 12: Road Reserve Management

- Introduction
- Litter
- Barriers
- Fencing
- Rest Areas
- Control of Vegetation
- Site Disturbance
- Importation of Materials
- Arrestor Beds



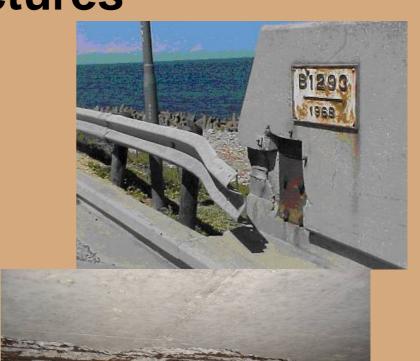






CHAPTER 13: Maintenance of Structures

- Introduction
- Inventory of Structures
- Routine Maintenance Inspections
- Retaining Structure
- Gantries
- Graffiti









CHAPTER 14: Statutory Control

Introduction

Areas ofStatutoryControl













CHAPTER 15: Incident Management Systems



- Introduction
- IncidentManagementGuideline Plan







CHAPTER 16: Quality Control Systems

Site Management Procedures

Road Safety

Material Control

Financial Control







THANK YOU