

**Title Sheet
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PREFACE

This 2004 revision of the AASHTO maintenance manual is based on information gleaned from recent highway transportation literature on maintenance, and field visits and interviews conducted by Kenneth A. Brewer as the principal author under National Cooperative Highway Research Program (NCHRP) Project SP20-07, Task 170. This document was prepared under the guidance of the NCHRP SP20-07, Task 170, Advisory Panel chaired by (insert chair name here).

Intended for persons early in their career in roadway and bridge maintenance, the *Maintenance Manual* will assist them in understanding the various processes, methods, and materials that are applied to maintain the bridge and highway system effectively. Also intended to be a dynamic document, the manual will need to be updated as research and applications change the relevant content sections. Historically, highway maintenance has encompassed personnel management, materials selection, equipment use, and application of methods to react to problems in bridges and roadways, budgeting, and planning. The field is now evolving into a new engineering science of its own, resulting from a synergistic combination of traditional civil engineering, industrial engineering, business management, materials science, industrial psychology, and environmental science. This manual is envisioned as the first step in documenting that transition; this first-generation text will lead and guide the professional development of the engineering managers of roadway and bridge maintenance in the beginning of the 21st century.

This manual, however, will need to be used in conjunction with your own agency's maintenance operation policy manual, maintenance standards publication, and organizational operation guides. The effective engineering manager of maintenance in the 21st century will have to supplement the education and experience brought to the maintenance position with self-study, continuing professional education, and on-the-job training in management principles and concepts.

Some illustrations and examples in this manual show a particular product, brand, trademark, agency, or company. AASHTO does not endorse any manufactured product, licensed process, or other proprietary item shown in this manual. All such illustrations are provided to make the accompanying text more understandable, and no reference to such items in this manual should be construed as an endorsement.

Table of Contents

1.0 MAINTENANCE MANAGEMENT

1.1 INTRODUCTION.....	1-1
1.1.1 Evolution of Maintenance Management Concepts and Systems.....	1-1
1.1.2 Development of Integrated Management Systems.....	1-3
1.1.3 Asset Management.....	1-5
1.1.4 Roadway Management	1-8
1.1.4.1 Introduction.....	1-8
1.1.4.2 Contract Maintenance	1-8
1.1.4.3 Maintenance Management.....	1-9
1.1.4.4 Workforce Development	1-9
1.1.4.5 Customer Satisfaction.....	1-9
1.1.4.6 Equipment.....	1-10
1.1.4.7 Pavements.....	1-10
1.1.4.8 Roadside and Environment	1-10
1.1.4.9 Snow and Ice Control.....	1-10
1.2 MANAGEMENT AND ADMINISTRATION	1-11
1.2.1 Functional Aspects	1-11
1.2.1.1 Organization for Maintenance.....	1-15
1.2.1.2 Planning and Budgeting for Maintenance.....	1-19
1.2.1.3 Scheduling Maintenance	1-20
1.2.1.4 Data Systems to Support Maintenance.....	1-22
1.2.1.5 Incident Management and Emergency Response in Maintenance.....	1-22
1.2.1.6 Work Zone Safety	1-23
1.2.2 Human Resources.....	1-24
1.2.2.1 Motivation	1-24
1.2.2.2 Training	1-25
1.2.2.3 Personnel Safety.....	1-26
1.2.2.4 Recruitment and Development	1-27
1.2.3 Technical Resources	1-27
1.2.3.1 Equipment for Maintenance	1-27
1.2.3.2 Materials for Maintenance.....	1-28
1.2.3.3 Models Available for Management of Resources.....	1-28
1.3 ISSUES OF CONTINUING CONCERN	1-29
1.3.1 Sustainable Development.....	1-29
1.3.2 Designing for Maintainability	1-29
1.3.3 Environmental Sensitivity.....	1-29
1.3.4 Application of TQM Principles and Quality Assurance	1-30
1.3.5 Litigation Involving Maintenance.....	1-30
1.3.6 Rational and Probabilistic Models to Predict Maintenance Needs and Effects.....	1-30
1.4 REFERENCES	1-31

2.0 ROADWAY MAINTENANCE AND MANAGEMENT

2.1 ROADWAY MAINTENANCE	2-1
2.1.1 Introduction	2-1
2.1.1.1 Preventive Roadway Maintenance Philosophy	2-1
2.1.1.2 Interaction with Bridge Maintenance and the Management of Other Functions	2-2
2.1.1.3 Interaction with the Design of Facilities	2-2
2.1.1.4 Role of Roadway Maintenance in the Safe, Efficient Operation of Facilities	2-3
2.1.1.5 Value of Roadway Maintenance to Agency	2-4
2.1.1.6 Value of Roadway Maintenance to the User Community	2-4
2.1.1.7 Pavement Management	2-5
2.1.2 Maintenance of Roadway Surfaces	2-6
2.1.2.1 Planning and Budgeting	2-6
2.1.2.2 Scheduling	2-7
2.1.2.3 Maintenance Needs by Type of Surface	2-7
2.1.2.4 Materials for Roadway Surface Maintenance	2-22
2.1.2.5 Methods for Roadway Surface Maintenance	2-27
2.1.3 Shoulder Maintenance	2-38
2.1.3.1 Impact of Shoulder Type on Maintenance	2-39
2.1.3.2 Scheduling Shoulder Maintenance	2-40
2.1.4 Roadway Drainage Maintenance	2-41
2.1.4.1 Maintenance of Roadway Surface Drainage	2-43
2.1.4.2 Maintenance of Subsurface Drainage	2-45
2.1.4.3 Other Considerations	2-48
2.1.5 Roadside Maintenance	2-49
2.1.6 Maintenance of Safety Features	2-56
2.1.7 Building Facilities Related to Roadway Maintenance	2-58
2.1.8 Special Pathways	2-61
2.1.9 Snow and Ice Control	2-62
2.1.10 Traffic Control Devices and Roadway System Instrumentation	2-70
2.1.11 Roadway, Tunnel, and Bridge Illumination	2-77
2.1.12 Roadways on Bridges and in Tunnels	2-83
2.1.13 Environmental Aspect of Roadway Maintenance	2-86
2.1.14 Maintenance Work Zone Traffic Control	2-91
2.1.15 General Maintenance Worker Safety Notes	2-95
2.2 REFERENCES	2-96

3.0 BRIDGE MAINTENANCE AND MANAGEMENT

3.1 BRIDGE MAINTENANCE	3-1
3.1.1 Introduction	3-1
3.1.1.1 Load Rating of Bridges	3-1
3.1.1.2 Structural Systems	3-3
3.1.1.3 Bridge Maintenance Concepts	3-11
3.1.2 Traveled Surface	3-12
3.1.2.1 Concrete Surfaces	3-13
3.1.2.2 Asphalt Surfaces	3-15
3.1.2.3 Stone and Brick Surfaces	3-17
3.1.2.4 Steel Grate Surfaces	3-17
3.1.2.5 Wood Surfaces	3-17
3.1.3 Structural Decks	3-18
3.1.3.1 Introduction	3-18
3.1.3.2 Preventive Maintenance of Concrete Decks	3-18
3.1.3.3 Concrete Deck Sealing	3-19

3.1.3.4 Concrete Deck Patching	3-20
3.1.3.5 Polymer Deck Patching	3-21
3.1.3.6 Asphaltic Concrete Patching.....	3-22
3.1.3.7 Emergency Full-Depth Patching.....	3-22
3.1.3.8 Crack Sealing	3-22
3.1.3.9 Overlays to Bridge Decks.....	3-23
3.1.3.10 Concrete Deck Replacement.....	3-24
3.1.3.11 Timber Bridge Decks	3-25
3.1.3.12 Steel Grid Decks	3-26
3.1.3.13 Maintaining Deck Joints	3-26
3.1.3.14 Deck Drainage Systems	3-34
3.1.3.15 Curbs, Sidewalks, and Railings	3-35
3.1.4 Superstructure	3-38
3.1.4.1 Jacking and Supporting the Superstructure.....	3-38
3.1.4.2 Bearing Maintenance and Repairs.....	3-41
3.1.4.3 Beam Repair.....	3-48
3.1.4.4 Truss Repair	3-56
3.1.5 Substructure.....	3-60
3.1.5.1 Problems Associated with Substructure Caps.....	3-61
3.1.5.2 Maintenance	3-61
3.1.5.3 Preventive Maintenance	3-61
3.1.5.4 Repair Process	3-62
3.1.5.5 Repairing Substructures Above Water	3-63
3.1.5.6 Underwater Repair of Substructures.....	3-67
3.1.5.7 Pile and Bent Repair	3-72
3.1.6 Watercourse and Embankments	3-82
3.1.6.1 Removing Debris From Channels	3-82
3.1.6.2 Scour Protection and Repair.....	3-85
3.1.7 Protective Systems.....	3-93
3.1.7.1 Protecting the Substructure.....	3-93
3.1.7.2 Spot Painting to Protect the Superstructure	3-94
3.1.8 Environmental Aspects	3-100
3.1.8.1 Lead-Based Paint Removal	3-100
3.1.8.2 Other Environmental Concerns.....	3-102
3.1.8.3 Hauling and Disposal Regulations.....	3-104
3.1.8.4 Hazardous Wastes	3-104
3.1.8.5 Historic Structures.....	3-105
3.1.8.6 Noise Control	3-105
3.1.8.7 Creosote-Treated Timber	3-105
3.1.8.8 Worker Safety	3-106
3.1.8.9 Work Site Safety Review.....	3-108
3.1.8.10 Toxic Materials.....	3-109
3.1.8.11 Confined Spaces.....	3-109
3.1.8.12 Fall Protection, Rigging, Scaffolding, and Hoisting.....	3-112
3.1.8.13 Safety Review	3-123
3.1.9 Movable Bridges.....	3-124
3.1.9.1 Types of Movable Bridges	3-124
3.1.9.2 Structural Maintenance.....	3-125
3.1.9.3 Machinery and Equipment Maintenance	3-125
3.1.9.4 Inspection and Maintenance of Specific Part and Components.....	3-126
3.1.9.5 Inspection Items	3-129
3.1.10 Maintenance Work Zone Traffic Control	3-131
3.1.10.1 Control for Work Zones.....	3-131
3.1.10.2 Temporary Structures	3-137
3.1.11 REFERENCES	3-138

3.2 BRIDGE MANAGEMENT AND BRIDGE MAINTENANCE MANAGEMENT	3-142
3.2.1 Introduction.....	3-142
3.2.1.1 Bridge Maintenance Management Process	3-142
3.2.1.2 Bridge Management System Requirements.....	3-144
3.2.1.3 PONTIS.....	3-144
3.2.1.4 Network-Level vs. Project-Level Management Decisions.....	3-145
3.2.1.5 System Interfaces.....	3-146
3.2.2 Planning and Scheduling Bridge Maintenance.....	3-146
3.2.2.1 Long-Range Planning and Scheduling	3-146
3.2.2.2 Work Orders.....	3-147
3.2.2.3 Job Layout	3-147
3.2.2.4 Short-Term Scheduling Procedures.....	3-149
3.2.2.5 Graphical Methods of Scheduling	3-149
3.2.3 Performing the Work	3-150
3.2.3.1 Job Execution	3-150
3.2.3.2 Personnel Resources.....	3-150
3.2.3.3 Equipment.....	3-151
3.2.3.4 Materials.....	3-151
3.2.4 Reporting Bridge Maintenance Accomplishments.....	3-152
3.2.4.1 Why Report?	3-152
3.2.4.2 Report Requirements	3-152
3.2.4.3 Reporting Procedures	3-153
3.2.5 Contract Maintenance for Bridges	3-153
3.2.5.1 Lump Sum Contracts	3-154
3.2.5.2 Unit Price Contracts.....	3-155
3.2.5.3 Cost Reimbursement Contracts	3-155
3.2.5.4 Negotiated Contracts	3-156
3.2.5.5 Cost Comparison of Contracting vs. Performing Work In-house.....	3-157
3.2.6 Quality Control and Quality Assurance of Bridge Maintenance Operations.....	3-157
3.2.6.1 QC at the Work Site	3-157
3.2.6.2 Technical Site Review	3-158
3.2.6.3 Traffic Control Site Review	3-158
3.2.6.4 Site Review of Tools and Equipment Use	3-158
3.2.6.5 Site Review of Rigging and Climbing Practices.....	3-158
3.2.6.6 Budget Monitoring	3-159
3.2.6.7 Schedule Monitoring.....	3-159
3.2.6.8 Methods of Quality Assurance	3-159
3.2.7 Bridge Inspection.....	3-160
3.2.7.1 Inspection Process.....	3-160
3.2.7.2 NBI Program	3-160
3.2.7.3 Performing the Inspection	3-160
3.2.7.4 Inspection Reports.....	3-163
3.2.7.5 Inspection Performed by Maintenance Supervisors	3-163
3.2.7.6 Resource Estimating	3-164
3.2.7.7 Identifying Fracture-Critical Bridges	3-164
3.2.7.8 Testing Existing Bridge Components.....	3-167
3.2.7.9 Tests for Steel Members	3-169
3.2.7.10 Tests for Timber Members.....	3-170
3.2.7.11 Load Tests	3-170
3.2.8 Preliminary Site Visit to Plan a Bridge Repair	3-170
3.2.8.1 Basic Information Required	3-171
3.2.8.2 Channel Damage	3-171
3.2.8.3 Approach Damage.....	3-172

3.2.8.4 Deck Damage	3-172
3.2.8.5 Superstructure Damage.....	3-173
3.2.8.6 Substructure Damage	3-174
3.2.8.7 Emergency Damage	3-175
3.2.9 REFERENCES	3-176

4.0 EQUIPMENT SYSTEMS

4.1 INTRODUCTION.....	4-1
4.2 EQUIPMENT APPLICATION	4-4
4.3 MAINTENANCE OF EQUIPMENT	4-7
4.4 ACQUISITION AND REPLACEMENT	4-7
4.5 REFERENCES	4-10

5.0 MAINTENANCE RESEARCH AND DEVELOPMENT

5.1 ADMINISTRATION	5-1
5.1.1 Managing Contract Research	5-2
5.2 METHODS	5-4
5.3 MATERIALS	5-5
5.4 HUMAN RESOURCES AND PERSONNEL.....	5-5
5.5 EQUIPMENT	5-6
5.6 INTERNATIONAL ASPECTS AND TECHNOLOGY TRANSFER	5-7
5.7 REFERENCES	5-7

6.0 TORT LITIGATION

6.1 TORT CLAIMS	6-1
6.2 REFERENCES	6-5