Quality Management of Hot Mix Asphalt

Dale S. Decker, Editor

ASTM Publication Code Number (PCN): 04-012990-08

ASTM
100 Barr Harbor Drive
West Conshohocken, PA 19428-2959
Printed in the U.S.A.
Foreword

The Symposium on Quality Management in Asphalt Pavement Construction was held 5 December 1995 in Norfolk, Virginia. ASTM Committee D-4 on Road and Paving Materials sponsored the symposium. Dale S. Decker, National Asphalt Pavement Association, Lanham, Maryland, presided as chairman and is editor of this publication.
Contents

Overview

Minnesota’s Quality Management Program: A Process for Continuous Improvement—D. W. WEGMAN 3

Evaluation and Modification of a Statistical Specification for Hot Mix—
J. B. METCALF AND T. G. RAY 19

Field Management of Hot Mix Asphalt Volumetric Properties—P. S. KANDHAL,
K. Y.Foo, AND J. D. D’ANGELO 28

Design and Implementation of a Dynamic Quality Management System for
HMA: A Case Study—J. J. WEIGEL, JR., R. J. COMINSKY, AND
J. S. MOULTHROP 46

QC/QA Specifications—A Texas Producer’s Experiences—E. L. DUKATZ, JR. 56

The Use of Falling Weight Deflectometer in Asphalt Pavement Construction
Quality Control—S. M. ZAGHLOUL AND N. A. SAEED 66

Quality Management in Asphalt Pavement Construction—R. L. DAVIS 82

Use of SHRP-Developed Testing in QC/QA Programs on Asphalt Concrete for
Highway and Airfield Pavements—J. T. HARVEY, B. A. VALLERGA, AND
C. L. MONISMITH 94

Performance Based Field Quality Control/Quality Assurance for
Asphalt-Aggregate Mixes—J. B. SOUSA, G. WAY, M. G. BOULDIN, AND
J. T. HARVEY 111

Consideration of Hot Mix Asphalt Thermal Properties During Compaction—