

NASHVILLE STORMWATER MANAGEMENT MANUAL
VOLUME 3—THEORY

CHAPTER 1
Introduction

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Chapter 1 INTRODUCTION

1.1 PURPOSE

This volume of the Nashville Stormwater Management Manual has been prepared by the Metropolitan Department of Public Works (MDPW) as a theoretical supplement to the technical guidelines and procedures presented in Volume 2. The volume is a compilation of readily available literature relevant to stormwater management activities in Nashville and Davidson County. Although it is intended to establish uniform design practices, it neither replaces the need for engineering judgment nor precludes the use of information not presented.

1.2 FORMAT AND CONTENTS

The Nashville Stormwater Management Manual is presented in three volumes:

- Volume 1 - Regulations
- Volume 2 - Procedures
- Volume 3 - Theory

Volume 3 contains the following chapters, which have titles identical to the same-numbered chapters in Volume 2:

1. Introduction
2. Hydrology
3. Open Channel Hydraulics
4. Gutter and Inlet Hydraulics
5. Culvert Hydraulics
6. Storm Sewer Hydraulics
7. Bridge Hydraulics
8. Detention/Retention Hydraulics
9. Erosion and Sediment Control
10. Outlet Protection

Tables and figures for Volume 3 are located immediately following the first textual reference. Each chapter is introduced by a detailed table of contents that includes table and figure titles. Cited literature for the entire

volume is listed alphabetically by author after the last chapter. Terms and symbols are defined immediately after each equation.

1.3 LIMITATIONS

Theoretical information compiled in this volume is generally presented in a refresher-type context and assumes the user has some technical training related to stormwater management. The volume is not intended to function as a stand-alone reference text and the user is encouraged to utilize additional references. Since Volume 3 is a supplement to Volume 2 on procedures, it does not duplicate design aids such as charts, figures, tables, computer program information, and forms.

1.4 UPDATING

This volume of the Nashville Stormwater Management Manual is not expected to require significant changes. It will, however, be updated and revised as necessary to reflect up-to-date engineering practices and information applicable to Nashville and Davidson County. Registered manual users who provide a current address to MDPW will automatically be sent changes. Questions and comments should also be submitted to MDPW:

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