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58-16

Structural Design of Interlocking Concrete Pavement for Municipal Streets and Roadways

ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

T&DI TRANSPORTATION & DEVELOPMENT INSTITUTE

icpi Interlocking Concrete Pavement Institute

PUBLISHED BY THE AMERICAN SOCIETY OF CIVIL ENGINEERS

Library of Congress Cataloging-in-Publication Data

Names: American Society of Civil Engineers.
Title: Structural design of interlocking concrete pavement for municipal streets and roadways / American Society of Civil Engineers.
Description: Reston, Virginia : ASCE, [2016] | Series: ASCE standard | "ASCE/T&DI/ICPI 58-16." | Includes bibliographical references and index.
Identifiers: LCCN 2016041054 | ISBN 9780784414507 (soft cover : alk. paper) | ISBN 9780784480281 (PDF)
Subjects: LCSH: Pavements, Concrete–Design and construction–Standards. | Concrete roads–Design and construction–Standards. | Streets–Design and construction–Standards.
Classification: LCC TE278 .S785 2016 | DDC 625.8/4–dc23 LC record available at https://lccn.loc.gov/2016041054

Published by American Society of Civil Engineers
1801 Alexander Bell Drive
Reston, Virginia, 20191-4382
www.asce.org/bookstore | ascelibrary.org

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Errata: Errata, if any, can be found at http://dx.doi.org/10.1061/9780784414507.

ISBN 978-0-7844-1450-7 (soft cover)
ISBN 978-0-7844-8028-1 (PDF)
Manufactured in the United States of America.

23 22 21 20 19 18 17 16 1 2 3 4 5

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PREFACE

Interlocking concrete pavers can provide a durable and effective pavement system, but as with any pavement, proper design, construction, and maintenance procedures are required. This standard guideline has been prepared by the ASCE/T&DI Structural Design of Interlocking Concrete Pavement Standards Committee. It establishes guidelines for developing appropriate pavement structures for various traffic and subgrade conditions. The overall goal of this standard guideline is to assist the industry and public by establishing structural design standards for interlocking concrete pavements.

The trend in North America is toward the development and implementation of mechanistic-empirical design protocols. Although efforts by the interlocking concrete pavement industry to move toward adopting a mechanistic-empirical design procedure are underway, the required data to implement such a procedure are not yet available, and therefore, this standard guideline was developed according to the 1993 AASHTO *Guide for Design of Pavement Structures* (AASHTO 1993).

The development of this standard guideline is a result of a partnership between the Transportation and Development Institute of ASCE and the Interlocking Concrete Pavement Institute. The organizations jointly encouraged expert volunteers to become a part of the standards committee that developed the standard guideline and supported the efforts of the committee. This committee comprises individuals from many backgrounds, including consulting engineering, research, design and manufacturing, education, government, and private practice.

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