




Office of Engineering  
 Project Development Division  
 Bridge Design Section  
 PO Box 94245 | Baton Rouge,  
 LA 70804-9245  
 Phone: 225-379-1302

John Bel Edwards, Governor  
 Shawn D. Wilson., Ph.D., Secretary

MEMORANDUM

TO: ALL CONSULTANTS  
 ALL BRIDGE DESIGNERS

FROM: PAUL FOSSIER, P.E.   
 BRIDGE DESIGN ENGINEER ADMINISTRATOR

SUBJECT: BRIDGE DESIGN TECHNICAL MEMORANDUM NO. 77 (BDTM.77)  
 BRIDGE DESIGN AND EVALUATION MANUAL (BDEM) REVISION NO. 7

DATE: December 31, 2017

BDEM Revision No. 7

The following pages in BDEM have been revised and added. The BDEM posted on Bridge Design Section Website has been updated to include these pages.

Page No.	Revision Description
Index-ii & iii	Revise the title for Part II Volume 4 to “Highway Safety Hardware” and Added chapters in Part II Volume 3 and 4
Preface-i , ii	Revised to include additional information (see details below)
Preface-iii, iv	New pages added in preface (see details below)
Revision History-i	Added BDEM revision 7
II.V3-Ch1-i, 1 to 4	New pages for Part II Volume 3 – Structural Supports for Permanent Highway Signs and High Mast Lighting (see details below)
II.V4-Ch1-i, 1 to 4; II.V4-Ch2-i, 1 to 5; II.V4-Ch3-i, 1 to 3	New Pages for Part II Volume 4 – Highway Safety Hardware (see details below)

Major Revisions:

Preface

The preface is revised to incorporate the information that was published in BDTM.50 and include additional updates required for Part II Volume 3 and 4. The revised preface further emphasizes that the provisions in BDEM shall be followed for all LADOTD bridge projects regardless of contract delivery method (Design Bid-Built, Design Built, etc.), and that any deviations from the BDEM must be approved by the Bridge Design Engineer Administrator. The revised preface covers BDEM organization, BDEM format, maintenance and revision of BDEM including when to implement new AASHTO Editions, implementation policy of BDEM and revisions for consultant and in-house projects, archived manuals, guidelines and published BDTMs.

*New Part II – Volume 3 – Structural Supports for Perm. Highway Signs and High Mast Lighting*

The new Part II Volume 3 supplements Sections 1.1- Scope, 1.4.1- Sign and 1.4.2- Luminaires for the AASHTO LRFD Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. The new Sections discussed specific design, detail and plan preparation information for DOTD permanent highway overhead signs, breakaway signs and luminaires. The DOTD Bridge Design special details are also referenced in the Sections.

*New Part II – Volume 4 – Highway Safety Hardware*

The new Part II, Volume 4 for Highway Safety Hardware provides design, detail and plan preparation information for roadside barriers, median barriers, end treatments, and temporary barriers. The three new chapters in Volume 4 discuss general criteria, design process, standard plans, special details, specifications, EDSM's and the DOTD Approved Material Lists. A future chapter on bridge railing is still under development and will be published in the future.

This technical memorandum is posted on the LA DOTD Website under *Inside La DOTD > Divisions - Engineering > Bridge Design > Technical Memoranda – BDTMs.*

Please contact Ms. Zhengzheng “Jenny” Fu (225-379-1321, [zhengzheng.fu@la.gov](mailto:zhengzheng.fu@la.gov)) if you have questions or comments.

PF/zzf

Attachment

Cc: Chris Knotts (Chief Engineer)  
Chad Winchester (Chief, Project Development Division)  
Edward Wedge (Deputy Engineer Administrator)  
Vince Latino (Assistant Secretary of Operations)  
David Miller (Chief Maintenance Administrator)  
Michael Vosburg (Chief Construction Division Engineer)  
Brian Kendrick (Project Management Director)  
Jeff Lambert (Pavement and Geotechnical Engineer Administrator)  
David Smith (Road Design Engineer Administrator)  
Dan Magri (Highway Safety)  
Mary Stringfellow (FHWA)  
Art Aguirre (FHWA)  
District Administrators, ADA Engineering, ADA Operations, and District Bridge Engineers and Area Engineers