



ROADSIDE DESIGN GUIDE

2011 Edition

Transportation Planning
and Design
Division

Aastho Roadside Design Guide

Keith Wolhuter



Aastho Roadside Design Guide:

Roadside Design Guide American Association of State Highway and Transportation Officials. Task Force for Roadside Safety, 2011 The Roadside Design Guide presents a synthesis of current information and operating practices related to roadside safety and is written in dual units metric and U S Customary This book is a guide It is not a standard nor is it a design policy It is intended to use as a resource document from which individual highway agencies can develop standards and policies Although much of the material in the guide can be considered universal in its application several recommendations are subjective in nature and may need modification to fit local conditions However it is important that significant deviations from the guide be based on operational experience and objective analysis The 2011 edition of the AASHTO Roadside Design Guide has been updated to include hardware that has met the evaluation criteria contained in the National Cooperative Highway Research Program NCHRP Report 350 Recommended Procedures for the Safety Performance Evaluation of Highway Features and begins to detail the most current evaluation criteria contained under the Manual for Assessing Safety Hardware 2009 MASH For the most part roadside hardware tested and accepted under older guidelines that are no longer applicable has not been excluded in this edition AASHTO website *A Guide for Achieving Flexibility in Highway Design*, 2004 Context sensitive solutions CSS reflect the need to consider highway projects as more than just transportation facilities Depending on how highway projects are integrated into the community they can have far reaching impacts beyond their traffic or transportation function CSS is a comprehensive process that brings stakeholders together in a positive proactive environment to develop projects that not only meet transportation needs but also improve or enhance the community Achieving a flexible context sensitive design solution requires designers to fully understand the reasons behind the processes design values and design procedures that are used This AASHTO Guide shows highway designers how to think flexibly how to recognize the many choices and options they have and how to arrive at the best solution for the particular situation or context It also strives to emphasize that flexible design does not necessarily entail a fundamentally new design process but that it can be integrated into the existing transportation culture This publication represents a major step toward institutionalizing CSS into state transportation departments and other agencies charged with transportation project development *A Policy on Design Standards--interstate System*, 2005 **The 2002 AASHTO Roadside Design Guide** Kimberly Ann Nystrom, 2003 **Roadside Safety Analysis Program (RSAP)** King K. Mak, Dean Sicking, National Cooperative Highway Research Program, 2003 *Highway Safety Design and Operations Guide, 3rd Edition*, *Human Factors Guidelines for Road Systems* John L. Campbell, 2012 This report completes and updates the first edition of NCHRP Report 600 Human Factors Guidelines for Road Systems HFG which was published previously in three collections The HFG contains guidelines that provide human factors principles and findings for consideration by and is a resource document for highway designers traffic engineers and other safety practitioners Foreword **Guidelines for Design and Operation of**

Nighttime Traffic Control for Highway Maintenance and Construction James E. Bryden, Douglas J. Mace, National Cooperative Highway Research Program, 2002 *Practical Highway Design Solutions* Hugh W. McGee, 2013 Chapter one Introduction Chapter two Results of initial survey of state departments of transportation Chapter three Background information on project development and design methods Chapter four Profiles of states with practical design policies Chapter five Findings conclusions and suggested research **Geometric Design of Roads Handbook** Keith Wolhuter, 2015-10-05 Explore the Art and Science of Geometric Design The Geometric Design of Roads Handbook covers the design of the visible elements of the road its horizontal and vertical alignments the cross section intersections and interchanges Good practice allows the smooth and safe flow of traffic as well as easy maintenance Geometric design is covered in d

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