

# AASHTO LRFD **MOVABLE**

## Highway Bridge Design Specifications



August 2023

# Aashto Highway Design

**Mike Jess**



## **Aashto Highway Design:**

**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 Geometric Design of Highways and Streets, 2011** American Association of State Highway and Transportation Officials, 2011 Roadside Design Guide, 1996-01-01 This document presents a synthesis of current information and operating practices related to roadside safety and is developed in metric units The roadside is defined as that area beyond the traveled way driving lanes and the shoulder if any of the roadway itself The focus of this guide is on safety treatments that minimize the likelihood of serious injuries when a driver runs off the road This guide replaces the 1989 AASHTO Roadside Design Guide

**Highway Safety Design and Operations Guide, 3rd Edition**, **Highway Safety Design and Operations Guide, 1997**, 1997 A replacement to the publication entitled Highway design and operational practices related to highway safety also known as The Yellow Book and most recently published in 1974 *Highway Design and Operational Practices Related to Highway Safety*, 1974 *A Policy on Geometric Design of Highways and Streets*, 1994 American Association of State Highway and Transportation Officials, 1995 A Policy on Geometric Design of Highways and Streets provides the design professional guidance by referencing a recommended range of values for critical dimensions and design *A Policy on Design Standards--interstate System*, 2005

**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

**AASHTO Guide for Design of Pavement Structures, 1993** American Association of State Highway and Transportation Officials, 1993 Design related project level pavement management Economic evaluation of alternative pavement design strategies Reliability Pavement design procedures for new construction or reconstruction Design requirements Highway pavement structural design Low volume road design Pavement design procedures for

rehabilitation of existing pavements Rehabilitation concepts Guides for field data collection Rehabilitation methods other than overlay Rehabilitation methods with overlays Mechanistic empirical design procedures **Flexibility in Highway Design**, 1997 **Effect of Highway Standards on Safety** Hugh W. McGee, Warren Edward Hughes, K. Daily, 1995

Cost-effective Practices for Off-system and Local Interest Bridges F. W. Klaiber, Terry J. Wipf, Francesco M. Russo, National Cooperative Highway Research Program, 2004 TRB's National Cooperative Highway Research Program NCHRP Synthesis 327 Cost Effective Practices for Off System and Local Interest Bridges examines off system bridge design construction maintenance financing rehabilitation and replacement For this report off system refers to those bridges typically owned and maintained by local agencies and by state agencies on rural and other low volume roads AASHTO LRFD Bridge Design Specifications American Association of State Highway and Transportation Officials, 2007 AASHTO LRFD Bridge Design Specifications American Association of State Highway and Transportation Officials, 1994 The provisions of these Specifications are intended for the design evaluation and rehabilitation of both fixed and movable highway bridges Mechanical electrical and special vehicular and pedestrian safety aspects of movable bridges however are not covered Provisions are not included for bridges used solely for railway rail transit or public utilities For bridges not fully covered herein the provisions of these Specifications may be applied as augmented with additional design criteria where required These specifications are not intended to supplant proper training or the exercise of judgment by the Designer and state only the minimum requirements necessary to provide for public safety The Owner or the Designer may require the sophistication of design or the quality of materials and construction to be higher than the minimum requirements The concept of safety through redundancy and ductility and protection against scour and collision are emphasized The design provisions of these Specifications employ the Load and Resistance Factor Design LRFD methodology The factors have been developed from the theory of reliability based upon current statistical knowledge of loads and structural performance Methods of analysis other than those included in previous Specifications and the modelling techniques inherent in them are included and their use is encouraged The commentary is not intended to provide a complete historical background concerning the development of these or previous Specifications nor is it intended to provide a detailed summary of the studies and research data reviewed in formulating the provisions of the Specification However references to some of the research data are provided for those who wish to study the background material in depth The commentary directs attention to other documents that provide suggestions for carrying out the requirements and intent of these Specifications However those documents and this commentary are not intended to be a part of these Specifications Page 1 1 **A Policy on Design Standards--interstate System** American Association of State Highway and Transportation Officials. Task Force on Geometric Design, 1991 Highway Design and Operational Practices Related to Highway Safety American Association of State Highway Officials. Traffic Safety Committee, American Association of State Highway and Transportation Officials, 1967 Using Practical

Design and Context Sensitive Solutions in Developing Surface Transportation Projects United States. Congress. House. Committee on Transportation and Infrastructure. Subcommittee on Highways and Transit (2007- ),2010     Highway Drainage Guidelines: Guides for hydraulic analysis and design of open channels American Association of State Highway and Transportation Officials. Operating Subcommittee on Roadway Design. Task Force on Hydrology and Hydraulics,1979

**Roadway Lighting Design Guide** American Association of State Highway and Transportation Officials,2005 This guide replaces the 1984 publication entitled An Informational Guide for Roadway Lighting It has been revised and brought up to date to reflect current practices in roadway lighting The guide provides a general overview of lighting systems from the point of view of the transportation departments and recommends minimum levels of quality The guide incorporates the illuminance and luminance design methods but does not include the small target visibility STV method

## **Aashto Highway Design** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Aashto Highway Design**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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