

Table 5.1. AASHTO Classification System

General Classification	Granular materials (35% or less passing No. 200 Sieve (0.075 mm))							Silt-clay Materials More than 35% passing No. 200 Sieve (0.075 mm)			
Group Classification	A-1		A-3	A-2				A-4	A-5	A-6	A-7
	A-1-a	A-1-b		A-2-4	A-2-5	A-2-6	A-2-7				A-7-5
(a) Sieve Analysis: Percent Passing											
(i) 2.00 mm (No. 10)	50 max										
(ii) 0.425 mm (No. 40)	30 max	50 max	51 min								
(iii) 0.075 mm (No. 200)	15 max	25 max	10 max	35 max	35 max	35 max	35 max	36 min	36 min	36 min	36 min
(b) Characteristics of fraction passing 0.425 mm (No. 40)											
(i) Liquid limit				40 max	41 min	40 max	41 min	40 max	41 min	40 max	41 min
(ii) Plasticity index	6 max		N.P.	10 max	10 max	11 min	11 min	10 max	10 max	11 min	11 min*
(c) Usual types of significant Constituent materials	Stone Fragments Gravel and sand		Fine Sand	Silty or Clayey Gravel Sand				Silty Soils		Clayey Soils	
(d) General rating as subgrade	Excellent to Good							Fair to Poor			

* If plasticity index is equal to or less than (Liquid Limit-30), the soil is A-7-5 (i.e. PL > 30%)

If plasticity index is greater than (Liquid Limit-30), the soil is A-7-6 (i.e. PL < 30%)

Aashto Highway Design

Patrick Vollmar



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

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 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

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 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

A Policy on Design Standards--interstate System, 2005 Highway Safety Design and Operations Guide, 3rd Edition, 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 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

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

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

Engineering Standards for Forensic Application Richard W. McLay, Robert N. Anderson, 2018-09-14 Engineering Standards for Forensic Application presents the technologies and law precedents for the application of engineering standards to forensic opinions discussing Fundamentals Disciplines Engineering Standards The Basics and the Future of Forensics The book explores the engineering standard and how it is used by experts to give opinions that are introduced into evidence and how they are assumed to be the best evidence known on the topic at hand Final sections include coverage of NFL Brain Injuries and the Flint Water Crisis Examples of the use of engineering standards are shown and discussed throughout the work Addresses a wide variety of forensic engineering areas including relevant law Provides a new approach of study that includes the work of both engineers and litigators Contains contributions from over 40 experts offering the reader examples of general forensic methods that are based on reliable engineering practice

Flexible Design Standards for Highway Improvements, 1982 [AASHTO LRFD Bridge Design Specifications](#) American Association of State Highway and Transportation Officials, 1998

Highway Design Manual California. Department of Transportation, 1990

Older Driver Highway Design Handbook L. K. Staplin, 1998 *Truck Characteristics for Use in Highway Design and Operation*, 1990

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web questions 5 marks for this experiment identify the independent variable dependent variable control variable mark mark
mark name the process in which matter change from solid to liquid 1 name the process in which matter change from liquid to
solid 1