

Acronym	Design Publication	Date
<b>ALBDS</b>	AASHTO LRFD Bridge Design Specifications	See Note 1
<b>ADA<sup>2</sup></b>	U.S. Department of Transportation ADA Standards for Transportation Facilities, and U.S. Department of Justice ADA Standards for Accessible Design	2006 2010
<b>AHDM</b>	Alaska Highway Drainage Manual	2006
<b>ASD</b>	Alaska Standard Drawings Manual	See Note 3
<b>ATM</b>	Alaska Traffic Manual	See Note 4
<b>GB</b>	AASHTO A Policy on Geometric Design of Highways and Streets (Green Book)	2011
<b>GDBF</b>	AASHTO Guide for the Development of Bicycle Facilities	2012
<b>GDVLVLR</b>	AASHTO Guidelines for Design of Very Low-Volume Local Roads	2001
<b>HCM</b>	Highway Capacity Manual	2010
<b>RDG</b>	AASHTO Roadside Design Guide	2011
<b>RPRL</b>	IES Recommended Practice for Roadway Lighting (RP-8-14)	2014
<b>SSSS</b>	AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals	2013

Note 1: Use latest edition with interims effective at time of design approval

Note 2: In most cases, the 2006 US DOT ADA Standards for Transportation Facilities applies. See ADA design policy below for when the 2010 US DOJ ADA Standards apply

Note 3: Use the latest edition at the time of advertising

Note 4: Use the latest edition at the time of design approval

#### ADA Design Policy:

Transportation facilities and their appurtenances constructed in public rights-of-way are required to accommodate those with disabilities. These disabilities include, but are not limited to: limited mobility, impaired vision, and impaired hearing.

Design all new public transportation facilities, including bus stops and stations, and rail stations, to meet the *Americans with Disabilities Act (ADA) Standards for Transportation Facilities* adopted by the U.S. Department of Transportation (DOT) (2006). Other types of facilities covered by the ADA are subject to the *2010 ADA Standards for Accessible Design* adopted by the U.S. Department of Justice (DOJ). 49 CFR 37, Appendix D, Subpart B, Section 37.21 states, "Both sets of rules apply; one does not override the other."

The DOT rules apply only to the entity's transportation facilities, vehicles, or services; the DOJ rules may cover the entity's activities more broadly. For example, if a public entity operates a transit system and a zoo, DOT's coverage would stop at the transit system's edge, while DOJ's rule would cover the zoo. DOT and DOJ have coordinated their rules, and the rules have been drafted to be consistent with one another. Should, in the context of some future situation, there be an apparent inconsistency between the two rules, the DOT rules would control within the sphere of transportation services, facilities and vehicles."

**Table 1100-1  
Design Standards**

Design Particular	New Construction and Reconstruction			3R
	Urban	Rural	Very Low Volume Local Roads	All
Bridge Structural Capacity	ALBDS*	ALBDS*	ALBDS*	HPCM (Sec. 1160)
Bridge Width	GB	GB	GDVLVLR	HPCM (Sec. 1160)
Lateral Offset	RDG	N/A	RDG	N/A
Cross Slope	HPCM (Sec. 1130)	HPCM (Sec. 1130)	GDVLVLR	HPCM (Sec. 1130)
Design Speed	GB	GB	GDVLVLR	HPCM (Sec. 1160)
Grade	HPCM (Sec. 1120)	HPCM (Sec. 1120)	HPCM (Sec. 1120)	HPCM (Sec. 1160)
Horizontal & Vert. Curvature	HPCM (Sec. 1120)	HPCM (Sec. 1120)	GDVLVLR	HPCM (Sec. 1160)
Lane & Shoulder Width (ADT ≤ 2000)	GB	HPCM (Sec. 1130)	GDVLVLR	HPCM (Sec. 1160)
Lane & Shoulder Width (ADT > 2000)	GB	GB	Not Applicable	HPCM (Sec. 1160)
Lane & Shoulder Width (Interstate)	HPCM (Sec. 1120.3.3)	HPCM (Sec. 1120.3.3)	Not Applicable	HPCM (Sec. 1160)
Stopping Sight Distance	HPCM (Sec. 1120)	HPCM (Sec. 1120)	GDVLVLR	HPCM (Sec. 1160)
Superelevation	GB	GB	GDVLVLR	HPCM (Sec. 1160)
Vertical Clearance Alleys	HPCM (Sec. 1130)	HPCM (Sec. 1130)	HPCM (Sec. 1130)	HPCM (Sec. 1160)
	GB	Not Applicable	Not Applicable	HPCM (Sec. 1160)
Bicycle Facilities	HPCM (Ch. 12)	HPCM (Ch. 12)	HPCM (Ch. 12)	HPCM (Sec. 1160)
Bus Turnouts	GB	GB	GB	HPCM (Sec. 1160)
Capacity	HPCM (Ch. 10)	HPCM (Ch. 10)	HPCM (Ch. 10)	HPCM (Sec. 1160)
Clear Zone	GB <sup>1</sup>	HPCM (Sec. 1130)	GDVLVLR	HPCM (Sec. 1160)
Climbing Lanes	GB	GB	GB	HPCM (Sec. 1160)
Cul De Sacs	GB	GB	GB	HPCM (Sec. 1160)
Curbs	ASD	ASD	ASD	HPCM (Sec. 1160)
Drainage	AHDM	AHDM	AHDM	HPCM (Sec. 1120.6)
Design Vehicle (Turning) <sup>2</sup>	GB	GB	GB	HPCM (Sec. 1160)
Driveways	HPCM (Sec. 1190)	HPCM (Sec. 1190)	HPCM (Sec. 1190)	HPCM (Sec. 1160)
Erosion Control	AHDM	AHDM	AHDM	AHDM

\* Use HL-93 loading

**Figure 1100-3**  
**Highway Design Criteria Summary**  
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Design Particular	New Construction and Reconstruction			3R
	Urban	Rural	Very Low Volume Local Roads	All
Escape Ramps	GB	GB	GB	HPCM - Sec. 1160
Foreslopes	HPCM - Sec. 1130	HPCM - Sec. 1130	GDVLVLR	HPCM - Sec. 1160
Freeways	GB	GB	N/A	HPCM - Sec. 1160
Interchanges	GB	GB	N/A	HPCM - Sec. 1160
Intersection Design	GB	GB	GDVLVLR	HPCM - Sec. 1160
Level of Service	GB Table 2-5 <sup>3</sup>	GB Table 2-5 <sup>3</sup>	GB Table 2-5 <sup>3</sup>	HPCM - Sec. 1160
Lighting	RPRL	RPRL	RPRL	HPCM - Sec. 1160
Medians	HPCM - Sec. 1150	HPCM - Sec. 1150	HPCM - Sec. 1150	HPCM - Sec. 1160
On-Street Parking	GB	GB	GB	HPCM - Sec. 1160
Pavement	HPCM Sec. 1180	HPCM Sec. 1180	HPCM Sec. 1180	HPCM - Sec. 1160
Rail Grade Crossing	GB	GB	GB	HPCM - Sec. 1160
Sidewalks	GB & ADA	GB & ADA	GB & ADA	HPCM - Sec. 1160 and ADA
Structural Supports for Signs, Luminaires and Traffic Signals	SSSS	SSSS	SSSS	SSSS
Super Transitions	GB	GB	GDVLVLR	HPCM - Sec. 1160
Traffic Control Devices	ATM	ATM	ATM	HPCM - Sec. 1160
Traffic Barriers	HPCM - Sec. 1130	HPCM - Sec. 1130	GDVLVLR	HPCM - Sec. 1160
Turn Lanes	HPCM Sec. 1150	GB	GB	HPCM - Sec. 1160
Turnouts	HPCM Sec. 1120.5	HPCM Sec. 1120.5	HPCM Sec. 1120.5	HPCM - Sec. 1160
Work Zone Traffic Control	HPCM - Ch. 14	HPCM - Ch. 14	HPCM - Ch. 14	HPCM - Ch. 14

<sup>1</sup> Follow the requirements of HPCM Section 1130 for uncurbed urban sections.

<sup>2</sup> Reference 17 AAC 25.012 and 17 AAC 25.014 for allowable legal vehicle sizes.

<sup>3</sup> For urban and suburban arterials, see Section 7.3.2 of the GB for further discussion on selecting the design level of service. For urban and suburban freeways, see Section 8.2.3 of the GB for further discussion on selecting the design level of service.

**Figure 1100-3**  
**Highway Design Criteria Summary**  
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