

Table of Contents

Section	Page
1. Introduction	
1.1 General	1-1
1.2 Policy on Use of AASHTO Standards	1-2
1.3 Reference Publications	1-2
2. General Design Criteria	
2.1 General	2-1
2.2 Highway Classification	2-1
2.2.1 General	2-1
2.2.2 Principal Arterial Highways	2-1
2.2.3 Minor Arterial Highways	2-2
2.2.4 Collector Roads	2-2
2.2.5 Local Roads	2-2
2.3 Design Controls	2-3
2.3.1 General	2-3
2.3.2 Primary Controls	2-3
2.3.3 Secondary Controls	2-4
3. Definitions and Terminology	
3.1 General	3-1
3.2 Cross Section Terminology	3-1
3.3 General Terms	3-6
3.4 Pedestrian Terms	3-8
3.5 Bicycle Design Terms	3-9
4. Basic Geometric Design Elements	
4.1 General	4-1
4.2 Sight Distances	4-1
4.2.1 General	4-2
4.2.2 Passing Sight Distance	4-2
4.2.3 Stopping Sight Distance	4-2
4.2.4 Stopping Sight Distance on Vertical Curves	4-3
4.2.5 Stopping Sight Distance on Horizontal Curves	4-3
4.3 Horizontal Alignment	4-5
4.3.1 General	4-5
4.3.2 Superelevation	4-5
4.3.3 Curvature	4-10
4.4 Vertical Alignment	4-18
4.4.1 General	4-18

4.4.2 Position With Respect To Cross Section	4-19
4.4.3 Separate Grade Lines	4-19
4.4.4 Standards for Grade	4-19
4.4.5 Vertical Curves	4-20
4.4.6 Heavy Grades	4-25
4.4.7 Coordination with Horizontal Alignment	4-25
4.5 Climbing Lane	4-25
4.6 Lane Transition	4-28
 5. Major Cross Section Elements	
5.1 General	5-1
5.2 Pavement	5-1
5.2.1 Surface Type	5-1
5.2.2 Cross Slope	5-1
5.3 Lane Widths	5-2
5.4 Shoulders	5-4
5.4.1 General	5-4
5.4.2 Width of Shoulders	5-5
5.4.3 Cross Slope	5-6
5.4.4 Intermittent Shoulders or Turnouts	5-7
5.5 Roadside or Border	5-7
5.5.1 General	5-7
5.5.2 Width	5-7
5.6 Curbs	5-8
5.6.1 General	5-8
5.6.2 Type of Curbs	5-8
5.6.3 Placement of Curbs	5-9
5.6.4 Curb Height	5-9
5.7 Sidewalks	5-10
5.7.1 General	5-10
5.7.2 Pedestrian Needs	5-11
5.7.3 Sidewalk Design	5-11
5.7.4 Public Sidewalk Curb Ramps	5-12
5.8 Driveways	5-17
5.8.1 Pedestrian Accommodations at Driveways	5-17
5.9 Medians	5-18
5.9.1 General	5-18
5.9.2 Islands, Medians, and Pedestrian Refuges	5-18
5.9.3 Median Fencing On Land Service Highways	5-19
5.10 Standard Typical Sections	5-21
5.11 Bridges and Structures	5-21
5.11.1 General	5-21