

**CHAPTER IV
DETAIL DESIGN**

Minimum Design Criteria for Two Way Bicycle Paths				
Functional Classification	Bicycle Path			
Bicycle Design ADT	<100	100 - 200	200 - 300	>300
Bicycle Design Speed	12 mph [20 km/h]	20 mph [30 km/h]	25 mph [40 km/h]	30 mph [50 km/h]
Typical Section	D-49			
Path Width	8 ft. [2.4 m]	10 ft. [3.0 m]	12 ft. [3.6 m]	12 ft. [3.6 m]
Shoulder Width	2 ft. [0.6 m]			
Cross Slope (1)	2%			
Foreslope	6:1 [1:6] for 2 ft. [0.6 m]			
Backslope	See Soil Report			
Ditch (min. depth)	0.33 ft. [0.3 m]			
Horizontal Curvature (min. R)	30 ft. [10 m]	90 ft. [24 m]	155 ft. [47 m]	260 ft. [86 m]
Superelevation	2%			
Grade (max) (2)	5%			

(1) 4% for aggregate surface

(2) Where terrain dictates, grades > 5% may be acceptable for short distances as follows:

- 5% - 6% for up to 800 ft. [240 m]
- 7% for up to 400 ft. [120 m]
- 8% for up to 300 ft. [90 m]
- 9% for up to 200 ft. [60 m]
- 10% for up to 100 ft. [30 m]
- 11% + for up to 50 ft. [15 m]

Grades > 3% may not be practical for aggregate surface paths.

(3) For additional guidance, in particular vertical and horizontal clearances, refer to the AASHTO publication *"Guide for the Development of Bicycle Facilities"*.