Bicycle and Pedestrian Paths

As taken from:

Guide for the Development of Bicycle Facilities

MG& DEVELOR

1999 AASHTO



0.75 m 0.125 m 0.125 m (5 m) (5 in) 1,00 m (40 in)

Bicycle Operating Space

As this figure shows, bicyclists require at least 40 inches of essential operating space based solely on their profile. An operating space of 4 feet is assumed as the minimum width for any facility designed for exclusive or preferential use by bicyclists. Where motor vehicle traffic volumes, motor vehicle or bicyclist speed, and the mix of truck and bus traffic increase, a more comfortable operating space of 5 feet or more is desirable.

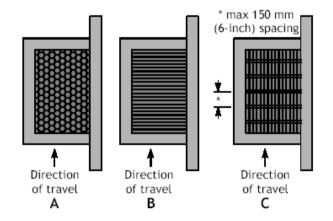
Shared Use Roadways

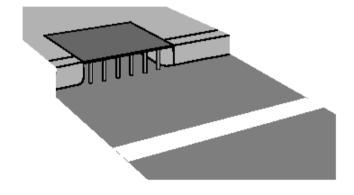


To varying extent, bicycles will be used on all highways where they are permitted. Bicycle-safe design practices should be followed during initial roadway design to avoid costly subsequent improvements. Because most existing highways have not been designed with bicycle travel in mind, roadways can often be improved to more safely accommodate bicycle traffic.

Ways to Improve Roadways for Shared use with Bicycles:

- Paved Shoulders at least 4' wide
- •Increased Lane Width 14' minimum, 15' ideal
- •On Street Parking 12' minimum for parking and bicycling
- •Pavement Surface Quality Smooth, consistent
- Drainage Grates Use bicycle-safe drains







Signed Shared Roadways

Signed shared roadways are those that have been identified by signing as preferred bike routes. There are several reasons for designating signed bike routes:

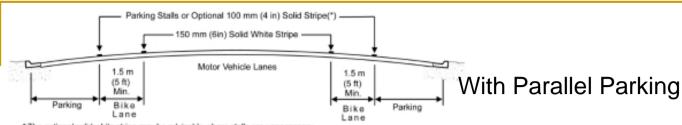
- a. The route provides continuity to other bicycle facilities such as bike lanes and shared use paths.
- b. The road is a common route for bicyclists through a high demand corridor.
- c. In rural areas, the route is preferred for bicycling due to low motor vehicle traffic volume or paved shoulder availability.
- d. The route extends along local neighborhood streets and collectors that lead to an internal neighborhood destination such as a park, school or commercial district.





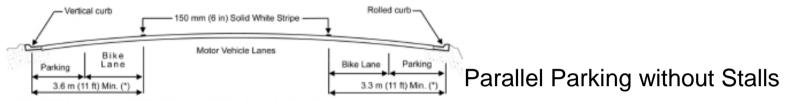
Bike Lanes

Bike lanes can be incorporated into a roadway when it is desirable to delineate available road space for preferential use by bicyclists and motorists, and to provide for more predictable movements by each. Bike lane markings, as exemplified in the picture, can increase a bicyclist's confidence in motorists not straying into their path of travel. Likewise, passing motorists are less likely to swerve to the left out of their lane to avoid bicyclists on their right.



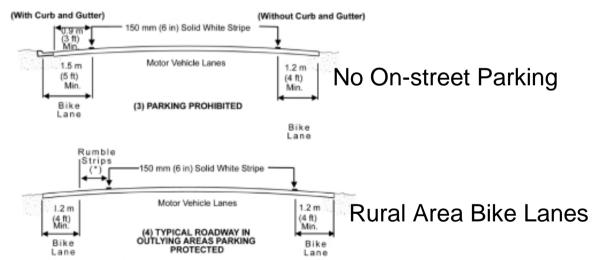
* The optional solid white stripe may be advisable where stalls are unnecessary (because parking is light) but there is concern that motorists may misconstrue the blike lane to be a traffic lane.

(1) ON-STREET PARKING

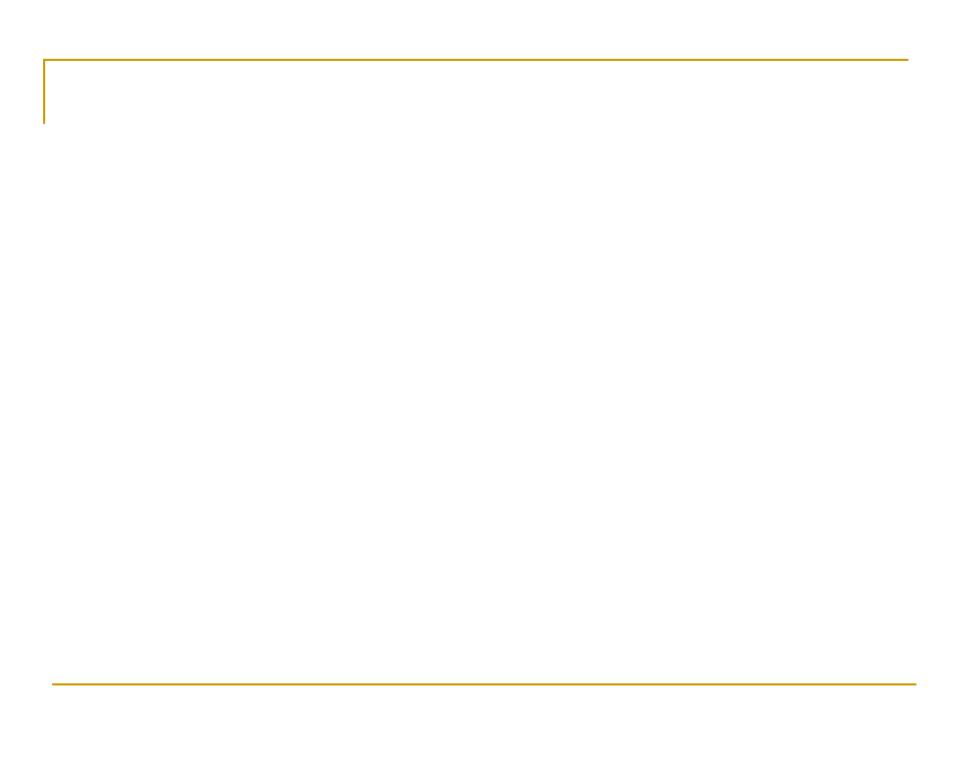


*3.9 m (13 ft) is recommended where there is substantial parking or turnover of parked cars is high (e.g. commercial areas).

(2) PARKING PERMITTED WITHOUT PARKING STRIPE OR STALL



"If rumble strips exist there should be 1.2 m (4ft) minimum from the rumble strips to the outside edge of the shoulder.







Shared Use Paths

(such as the Chief Ladiga Trail)



"Shared use paths should be thought of as a complementary system of off-road transportation routes for bicyclists and others that serves as a necessary extension to the roadway network. Shared use paths should not be used to preclude on-road bicycle facilities, but rather to supplement a system of on-road bike lanes, wide outside lanes, paved shoulders and bike routes."

