

# About DDIs

## What is a DDI?

A Diverging Diamond Interchange (DDI) is an **innovative interchange design** that improves safety and mobility by providing **left turn movements that do not cross oncoming traffic**.

## Benefits

### Safety

A DDI eliminates many of the most severe crash types by avoiding left turns across oncoming traffic. This simple change reduces vehicle-to-vehicle conflict points by nearly 50 percent compared to conventional interchanges.

### Efficiency

A DDI requires fewer lanes than a conventional interchange to handle the same amount of traffic.

### Cost-Effectiveness

A DDI can often be constructed at a lower cost and with less space than a conventional interchange.

Photo Source: SYCDrone, LLC

# Diverging Diamond Interchange (DDI)

General Information for Pedestrians and Bicyclists

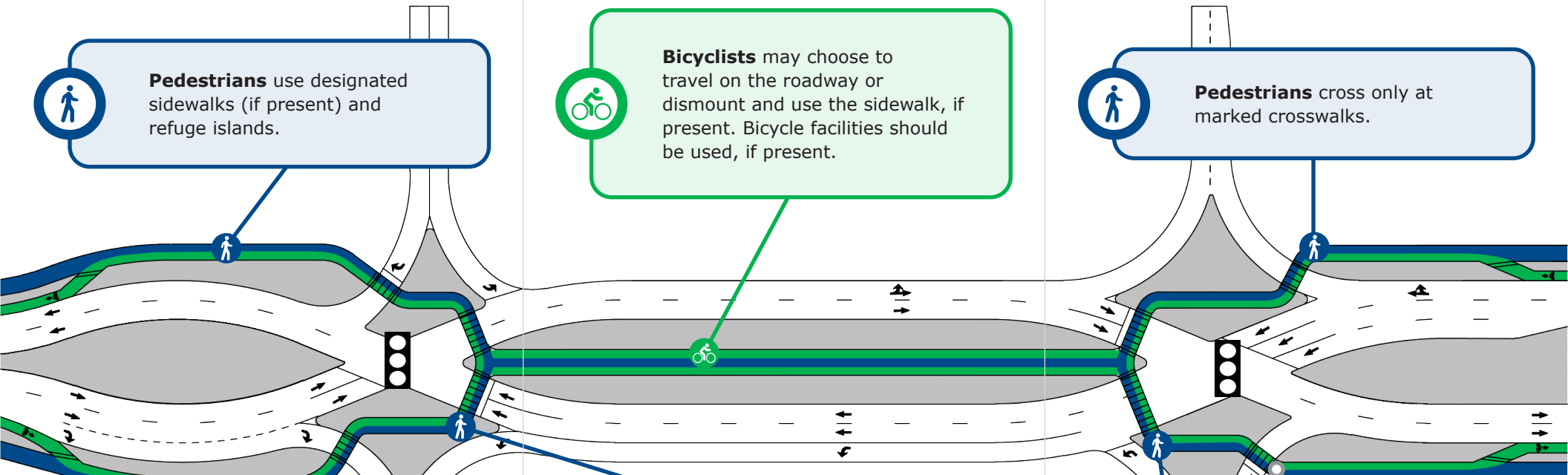
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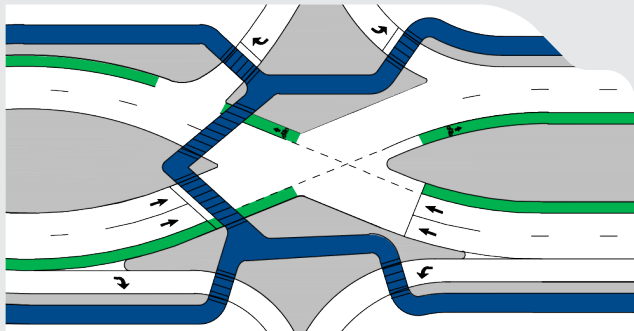


# Walking & Biking Through Diverging Diamond Interchanges (DDIs)



Adapted from NCHRP Report 948, Ex. 9-14

## Pedestrian & Bicycle Alternate Routes



Adapted from NCHRP Report 948, Ex. 4-16

**Pedestrians** must look to the right at certain crossings for oncoming vehicles.

DDIs can be designed with **pedestrian walkways** either inside the central median or outside the roadway.

Similarly, DDIs can have **bicycle facilities** either on-street, with crossovers like vehicular traffic, or off-street using a separated bike lane or shared-use path.

This inset shows on-street bike lanes with an outer pedestrian walkway.

**Be aware** that some crossings may not be at signaled intersections.

**Pedestrians** only cross one direction of traffic at a time.