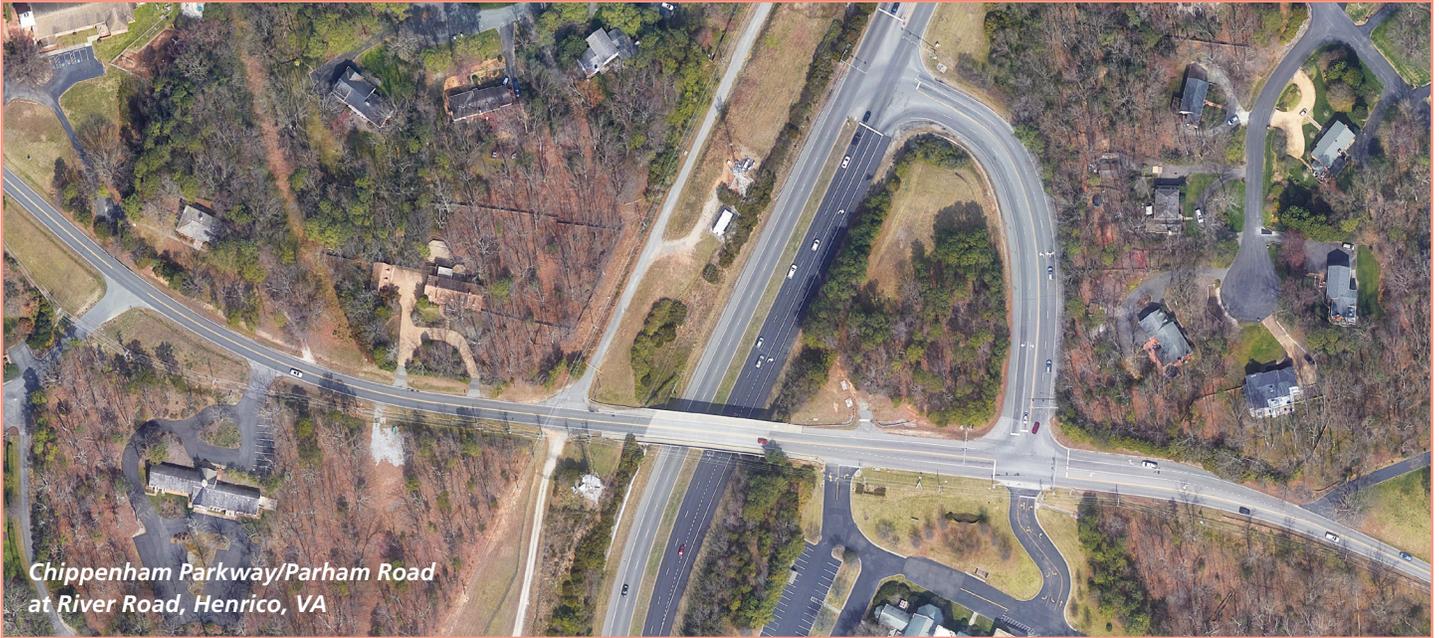




Single Loop



*Chippenham Parkway/Parham Road
at River Road, Henrico, VA*

What is a single loop?

- An intersection design where all four left-turn movements and some, or all, right-turn movements are rerouted onto a connector road
- The major and side streets are grade separated
- Single loops are typically signalized, but they can also be unsignalized
- A staircase or ramp may be used to shorten pedestrian paths between the elevated and at-grade roadways

When should a single loop be considered?

- At intersections with low to medium left-turn traffic volumes
- To connect a high-speed street with heavy traffic volumes to a slower, less-traveled street
- To connect existing grade-separated streets

What are the benefits of a single loop?

- **Improved safety:** Reduces and spreads out the number of points where vehicles, pedestrians, and bicyclists may cross paths
- **Increased efficiency:** Rerouting left turns allows for fewer traffic signal phases, which means less time waiting for through and right-turn vehicles
- **Better synchronization:** Synchronization of the two signalized intersections improves corridor travel times on both the major and side streets

What are innovative intersections?

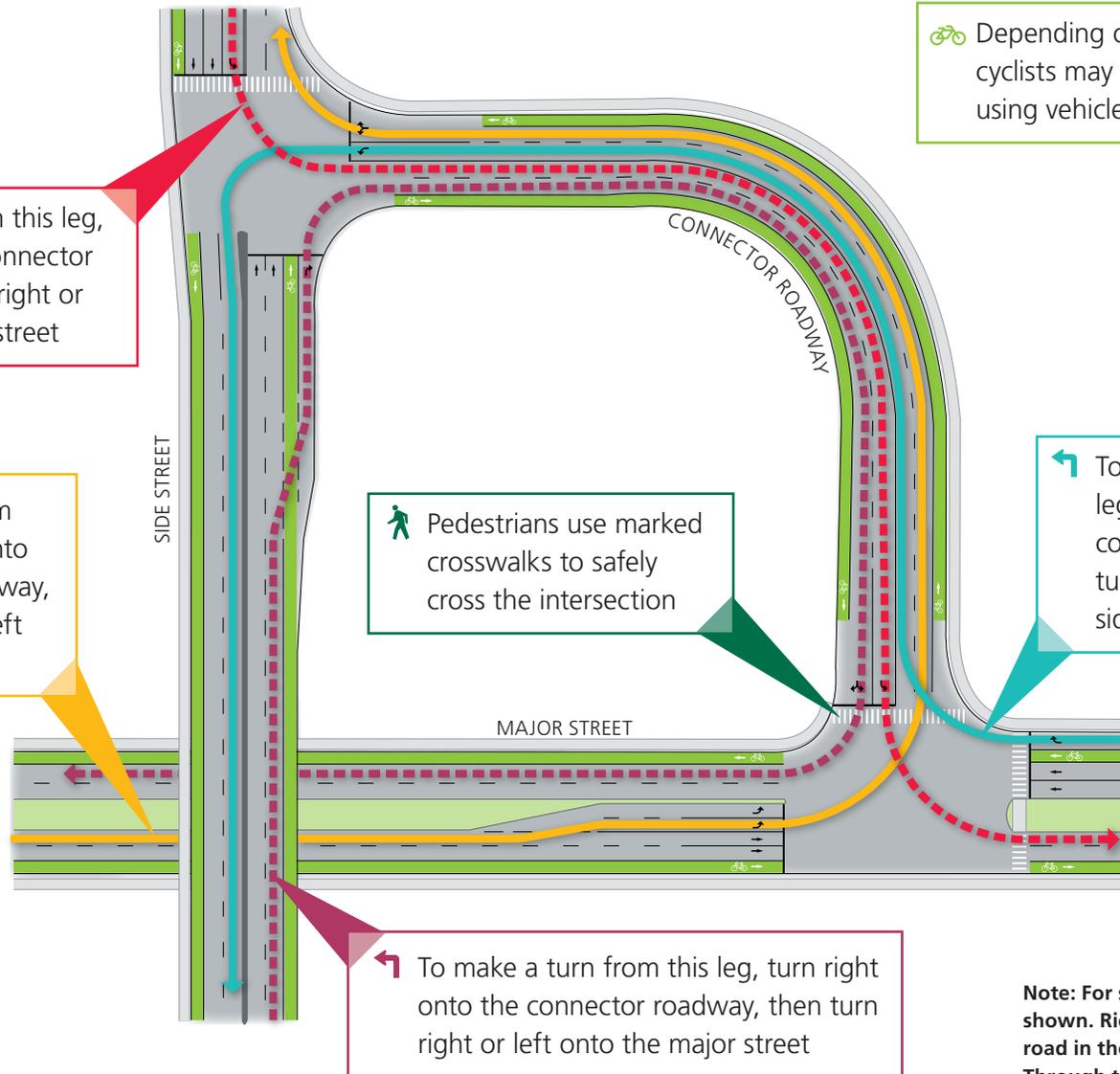
Intersection designs where traffic movements are modified to improve safety, reduce delay, and increase efficiency.

Visit www.virginiadot.org/innovativeintersections to learn more.





Navigating a Single Loop



NOT TO SCALE

Note: For simplicity, only left-turn routes are shown. Right-turn traffic uses the connector road in the same way as left-turn traffic. Through traffic follows similar routes to a conventional intersection.