



Provide a Right-turn Lane on One Major-road Approach

The FHWA defines "Provide a right-turn lane on one major-road approach" as a safety and operational enhancement that separates through and turning traffic to improve both capacity and safety.

Implementation Strategy

How and Where to Apply

- Apply where right-turn volumes are high or crash history indicates need. It helps reduce delays and collisions by separating turning traffic.
- Ensure pedestrian and bicyclist safety with proper markings, signals, and protected crossings in the turn lane design.
- The **FHWA** identifies adding a right-turn lane on one major-road approach as a proven strategy to improve intersection safety and operational efficiency.

Use in a Safe System Approach

Dedicated right-turn lanes support the Safe System approach by reducing conflicts, improving flow, and enhancing sight distance at busy intersections.

Key Stakeholders

State DOT, Local enforcement, active road users

Proactive Implementation

Proactively implement dedicated right-turn lanes at intersections showing rising turn volumes or minor crash trends. Use traffic studies to guide placement and ensure designs include pedestrian and bicyclist safety features.

Countermeasure Overview

Objective: Reduce the frequency and severity of intersection conflicts through geometric design improvements.

Strategy: Provide right-turn lanes at intersections

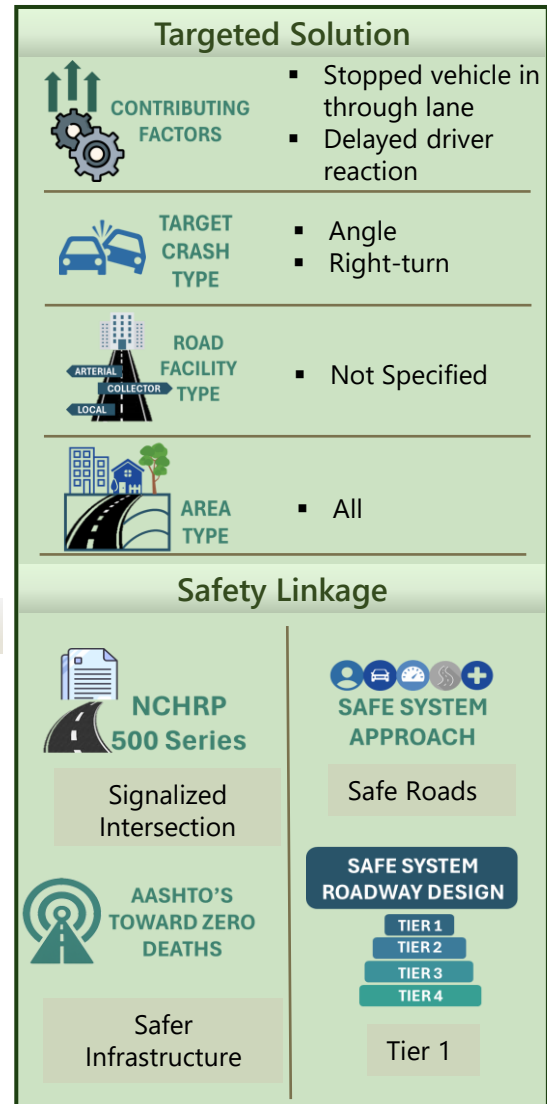
Selected Related Countermeasures

- CM1** Dedicated left turn lane
- CM2** Channeled right turn lane
- CM3** Roundabout conversion

Cost: \$ (Moderate)

Service Life: 20 years

Benefit-Cost Ratio: 4.9:1



Dedicated Right turn lanes. Source: FHWA

Safety Benefits

23% Reduce crashes of all types and severities¹

14% Reduce rear-end collision crashes

¹ CMF ID: 287

² CMF ID: 285

Resources

- [FHWA proven-safety-countermeasures/dedicated-left-and-right-turn-lanes-intersections](https://www.fhwa.gov/proven-safety-countermeasures/dedicated-left-and-right-turn-lanes-intersections)
- [Chanellization tech brief.pdf?](#)

