# Convert 4-lane Undivided Road to 2-lanes plus Turning ane



A Road Diet enhances safety by reducing conflict points and vehicle speeds and is commonly implemented on urban or suburban roads with moderate traffic volumes.

## Implementation Strategy

### How and Where to Apply

- It can be installed on urban or suburban roads with moderate traffic volumes, typically under 20,000 vehicles per day
- It is ideal for corridors with a history of crashes, excessive speeding, or inadequate pedestrian and bicycle infrastructure. Road Diets are also effective in areas seeking to improve multimodal access and enhance streetscape
- **MUTCD** supports Road Diet components through guidance on turn lanes, bike lanes, and lane reductions

Use in a Safe System Approach Supports the Safe System Approach by reducing speeds and sideswipe crash, aligning with "Safer People" by addressing risky lane changes. As a Tier 2 measure, the road diet manages flow and discourages aggressive driving on arterials without removing conflict points.

**Key Stakeholders** State DOT, Local enforcement, active road users

**Proactive Implementation** Proactive implementation of a Road Diet targets urban or suburban roads with moderate traffic and crash history, ideally during resurfacing projects. Key considerations include traffic flow, emergency access, transit

coordination, and community engagement to ensure safe, multimodal use.

### Countermeasure Overview

Objective: Ensure that roadway design and traffic control elements support appropriate and safe speeds

Strategy: Use combinations of geometric elements to control speeds (horizontal and vertical curves, cross section), including providing design consistency along an alignment

Cost: \$ (High)

Service Life: 20 years

**Benefit-Cost Ratio:** XX

# Unsignalized Intersection **AASHTO'S OWARD ZERO DEATHS**

Safer Infrastructure

500 Series

- High speed
- Frequent lane changes



CONTRIBUTING

FACTORS

**Targeted Solution** 

Left turn



Minor Arterial



Urban

# Safety Linkage

SAFE SYSTEM **APPROACH** 

Safe Roads

**ROADWAY DESIGN** TIER 1 TIER 3

**SAFE SYSTEM** 

Tier 1

Road Diet Basic Design. Source: fhwa

### Selected Related Countermeasures

Curb Extensions (Bulb-outs)

Improve Intersection Design

**Enhanced Left-Turn Channelization** 

Reduce crashes of all types and severities<sup>1</sup>



Reduce fatal and severe crashes <sup>1</sup>

<sup>1</sup> CMF ID: 11128 <sup>2</sup> CMF ID: 11135

- Road Diets (Roadway Reconfiguration), FHWA (2022)
- Road Diet Summary Report, FHWA
- Road Diet Informational Guide, FHWA (2014)



