

# FHWA's Proven Safety Countermeasures Program

# MAKING OUR ROADS SAFER

One  
Countermeasure  
at a Time

*28 Proven Safety Countermeasures that offer significant  
and measurable impacts to improving safety*



U.S. Department of Transportation  
**Federal Highway Administration**

**ZERO** IS OUR  
**GOAL**

A SAFE SYSTEM IS HOW WE GET THERE

<https://safety.fhwa.dot.gov/>

- Program began in 2008
- FHWA promoted widespread use of certain infrastructure-oriented safety treatments.

# MAKING OUR ROADS SAFER

One  
Countermeasure  
at a Time



- Updated countermeasures in
  - 2012
  - 2017
  - 2021
- 28 current countermeasures

# Proven Safety Countermeasures

These strategies are designed to enhance safety on all kinds of roads—from rural to urban, from high-volume freeways to less traveled two-lane State and county roads, from signalized crossings to horizontal curves, and everything in between.



The cumulative list is diverse and broad to successfully address:

- ✓ speed management
- ✓ intersections
- ✓ roadway departures
- ✓ pedestrians/ bicyclists
- ✓ crosscutting strategies

# Speed Management

## SPEED MANAGEMENT



Speed Safety  
Cameras



Variable Speed Limits



Appropriate Speed  
Limits for All Road  
Users

# Intersections

## INTERSECTIONS



Backplates with  
Reflective Borders



Corridor Access  
Management



Left- and Right-Turn  
Lanes at Two-Way  
Stop-Controlled  
Intersections



Reduced Left-Turn  
Conflict Intersections



Roundabouts



Systemic Application  
of Multiple Low Cost  
Countermeasures at  
Stop-Controlled  
Intersections



Yellow Change  
Intervals

# Pedestrians/ Bicyclists

## PEDESTRIAN/BICYCLIST



Crosswalk Visibility Enhancements



Bicycle Lanes



Rectangular Rapid Flashing Beacons



Leading Pedestrian Interval



Medians and Pedestrian Refuge Islands in Urban and Suburban Areas



Pedestrian Hybrid Beacons



Road Diets (Roadway Reconfiguration)



Walkways

# Roadway Departures

## ROADWAY DEPARTURE



Wider Edge Lines



Enhanced Delineation for Horizontal Curves



Longitudinal Rumble Strips and Stripes



SafetyEdge<sup>SM</sup>



Roadside Design Improvements at Curves



Median Barriers

# Crosscutting Strategies

## CROSSCUTTING



Pavement Friction Management



Lighting



Local Road Safety Plans



Road Safety Audits

# Proven Safety Countermeasures Tool

PROVEN SAFETY  
COUNTERMEASURES  
(PSC) TOOLS **NEW**



## [FILTER TOOL »](#)

Filter countermeasures by focus area, crash type, problem identified, and area type.



## SEARCH PSCs

Search

### What is the functional classification of the roadway?

- Freeway
- Highway
- Arterial
- Collector
- Local

### Which focus area is being addressed?

- Roadway Departure
- Intersection
- Pedestrian
- Bicyclist
- Speed Management

### What is vehicular volume in Average Annual Daily Traffic (AADT) along the major roadway?

- Low (<2,000)
- Medium (2,000-15,000)
- High (>15,000)

### What problem is being addressed?

- Inadequate Visibility, Conspicuity, or Sight Distance
- Excessive Vehicular Conflicts
- Congestion
- Excessive Speeds
- Non-Compliance (yielding right-of-way)
- No Separation of Users
- Vulnerable Users not Considered
- Driver Inattention (distracted/drowsy)
- Driver Impairment (alcohol/drugs)

### What specific crash types are being targeted at the location?

- Angle
- Left-Turn
- Right-Turn
- Rear End
- Pedestrian/Bicyclist
- Head On
- Run-Off-Road/Single Vehicle
- Sideswipe, same direction
- Sideswipe, opposite direction
- Wet
- Nighttime
- Speed-related
- Rollover
- Fixed-Object

Apply Filters

Clear Form

# For More Information See FHWA's Proven Safety Countermeasures Homepage:

<https://safety.fhwa.dot.gov/provencountermeasures/index.cfm>

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