

Proven Safety Countermeasures for Peds/Bikes



Benefits of Leading Pedestrian Interval

- Increased visibility of pedestrians.
- Reduced conflicts between pedestrians and vehicles.
- Enhanced safety for pedestrians who may be slower to start.
- Recommended at intersections with high turning-vehicle volumes.
- 60 percent reduction in pedestrian-vehicle intersection crashes.

Source: Federal Highway Administration (FHWA), https://safety.fhwa.dot.gov/provencountermeasures/lead_ped_int



Benefits of Medians and Pedestrian Crossing Islands in Urban/Suburban Area

- Raised Medians:
 - ◇ 46 percent reduction in pedestrian crashes.
- Pedestrian Crossing Island:
 - ◇ 56 percent reduction in pedestrian crashes.
- Consider at areas with significant mix of peds/vehicles in intermediate/high speed areas:

Source: Federal Highway Administration (FHWA), https://safety.fhwa.dot.gov/provencountermeasures/ped_medians/



Benefits of Pedestrian Hybrid Beacon

- Option between flashing beacon and full signal.
- Assigns right of way/provides positive stop control.
- Allows motorists to proceed once peds clear their side of travel lane, reducing vehicle delay.
- 75 percent of ped fatalities at non-intersections.
- Benefits of this improvement:
 - ◇ 69 percent reduction in pedestrian crashes.
 - ◇ 29 percent reduction in total crashes.
 - ◇ 15 percent reduction in serious injury/fatal crashes.

Source: Federal Highway Administration (FHWA), https://safety.fhwa.dot.gov/provencountermeasures/ped_hybrid_beacon/



Benefits of Road Diets in Michigan

- Typically involves converting four lane undivided to three lanes with a center left turn lane.
- Benefits of this improvement:
 - ◇ Reduction of rear-end and left-turn crashes.
 - ◇ Reduction of right angle crashes.
 - ◇ Fewer lanes for peds/bikes to cross.
 - ◇ Opportunity to install ped refuge island, bike lanes, on-street parking, or transit stops.
 - ◇ 40 percent reduction in total crashes expected to make a difference.

Source: MDOT, https://www.michigan.gov/documents/mdot/Research_Spotlight_road_diets_423935_7.pdf