



2014 Nevada Transportation Conference

NDOT SAFETY UPDATE



nevadadot.com



OUR GOAL!

REDUCE FATAL AND SERIOUS
INJURY CRASHES ON
NEVADA ROADS AND
HIGHWAYS



nevadadot.com



NDOT SAFETY PROGRAMS

- Highway Safety Improvement Program (HSIP)
- Strategic Highway Safety Plan
- Road Safety Audits
- Data Analysis
- Everything Else!





Safety – Make it Personal

Welcome to the NDOT Safety Engineering Tool Box!

zero
Fatalities
Drive Safe Nevada



nevadadot.com



NDOT Highway Safety Improvement Program (HSIP)

FHWA Nine Proven Crash Countermeasures

- Roundabouts
- Corridor Access Management
- Traffic Signal Backplates with Reflective Borders
- Rumble Strips and Stripes
- Enhanced Delineation and Friction for Horizontal Curves
- Safety Edge
- Medians and Pedestrian Crossing Refuge Areas
- Pedestrian Hybrid Beacon (HAWK Signal)
- Road Diet





NDOT Highway Safety Improvement Program (HSIP)

NDOT HSIP Elements Include:

- Railroad/Highway Grade Crossings
- Pedestrian/Bicycle
- Intersections
- Corridors





Systemic Improvement Tools

INTERSECTIONS

- Flashing Yellow Arrow
- Median and Pedestrian Refuge
- Yellow Change Interval
- Left and Right Turn Lanes
- Roundabouts





Systemic Improvement Tools

CORRIDORS (URBAN)

- Walkways
- Access Management
- Rumble Strips
- Roundabouts
- Safety Management Plans





Walkways



zero
Fatalities
Drive Safe Nevada

NEVADA
DOT

nevadadot.com



Access Management - Before



zero
Fatalities
Drive Safe Nevada

NEVADA
DOT

nevadadot.com



Access Management – After



zero
Fatalities
Drive Safe Nevada

NEVADA
DOT

nevadadot.com



Rumble Strips and Stripes



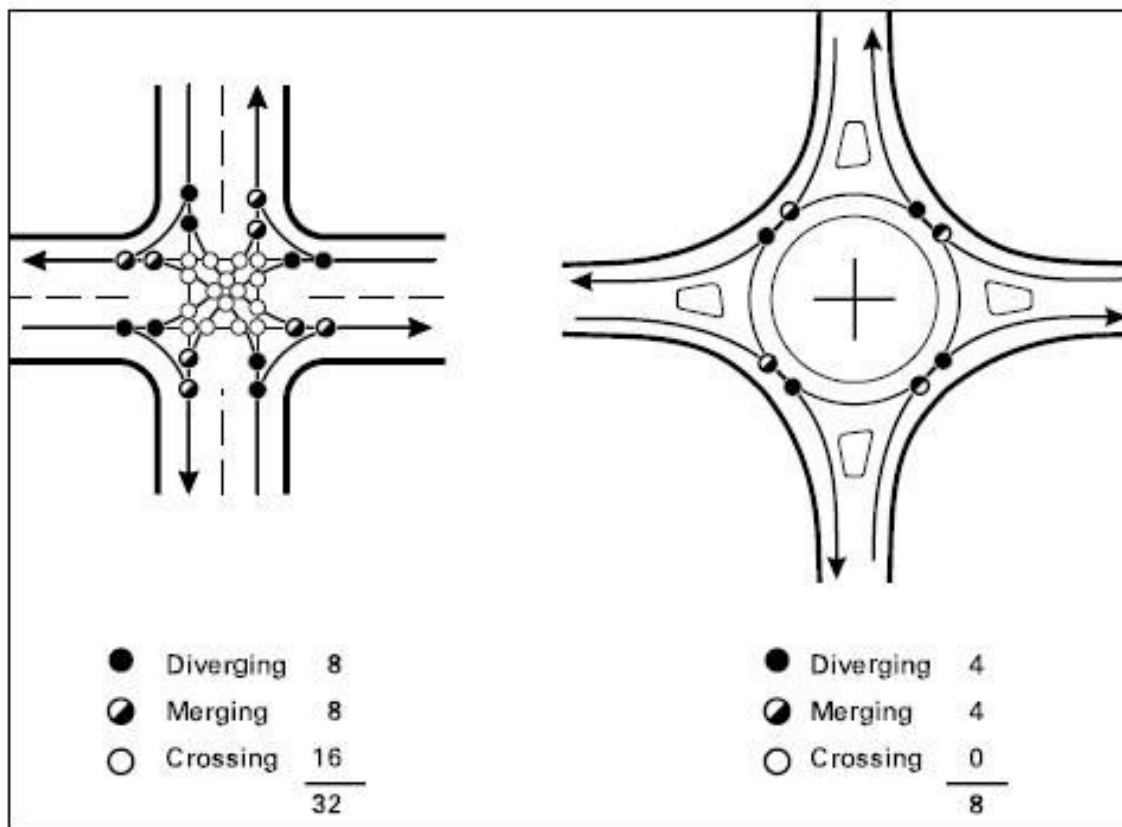
zero
Fatalities
Drive Safe Nevada

NEVADA
DOT

nevadadot.com



Roundabouts



zero
Fatalities
Drive Safe Nevada

NEVADA
DOT

nevadadot.com



Roundabouts



zero
Fatalities
Drive Safe Nevada

NEVADA
DOT

nevadadot.com



Safety Management Plans (SMP)

- SMPs are a detailed, comprehensive analysis of high crash corridors
- Use B/C to prioritize improvement strategies
- First SMP in Nevada was done on Kietzke Lane in Reno (2013)
- NDOT is currently selecting consultants to conduct SMPs throughout the state





Systemic Improvement Tools

CORRIDORS (RURAL)

- Median Barrier
- Left and Right Turn Lanes
- Safety Edge
- Shoulder Widening
- Slope Flattening
- Safety Management Plans





Median Barrier



zero
Fatalities
Drive Safe Nevada

NEVADA
DOT

nevadadot.com



Safety Edge - Before



Photo Source: FHWA

zero
Fatalities
Drive Safe Nevada

NEVADA
DOT

nevadadot.com



Safety Edge – After NDOT Standard



zero
Fatalities
Drive Safe Nevada

NEVADA
DOT

nevadadot.com



Slope Flattening - Before



zero
Fatalities
Drive Safe Nevada

NEVADA
DOT

nevadadot.com



Slope Flattening - After



zero
Fatalities
Drive Safe Nevada

NEVADA
DOT

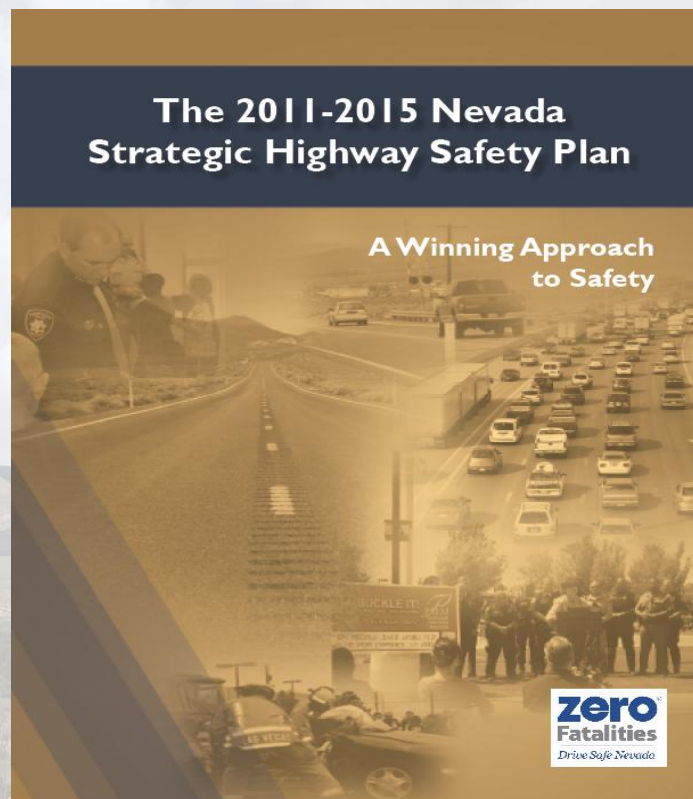
nevadadot.com



Strategic Highway Safety Plan (SHSP)

A major element of SHSP is the focus on 5 Critical Emphasis Areas:

- Lane Departure
- Intersections
- Seat Belts*
- Impaired Driving
- Pedestrians





\$2 million for support of the Office of Traffic Safety



zero Fatalities[®]

Drive Safe Nevada



nevadadot.com



The End!



zero
Fatalities
Drive Safe Nevada

NEVADA
DOT

nevadadot.com



QUESTIONS

zero
Fatalities
Drive Safe Nevada



nevadadot.com



Contact Information

P.D. Kiser, P.E.,PTOE
NDOT Chief Safety Engineer
Carson City, NV
O. 775-888-7459
C. 775-721-8228

