

# Williamson Road

WRABA  
February 21, 2017



# Traffic Volumes

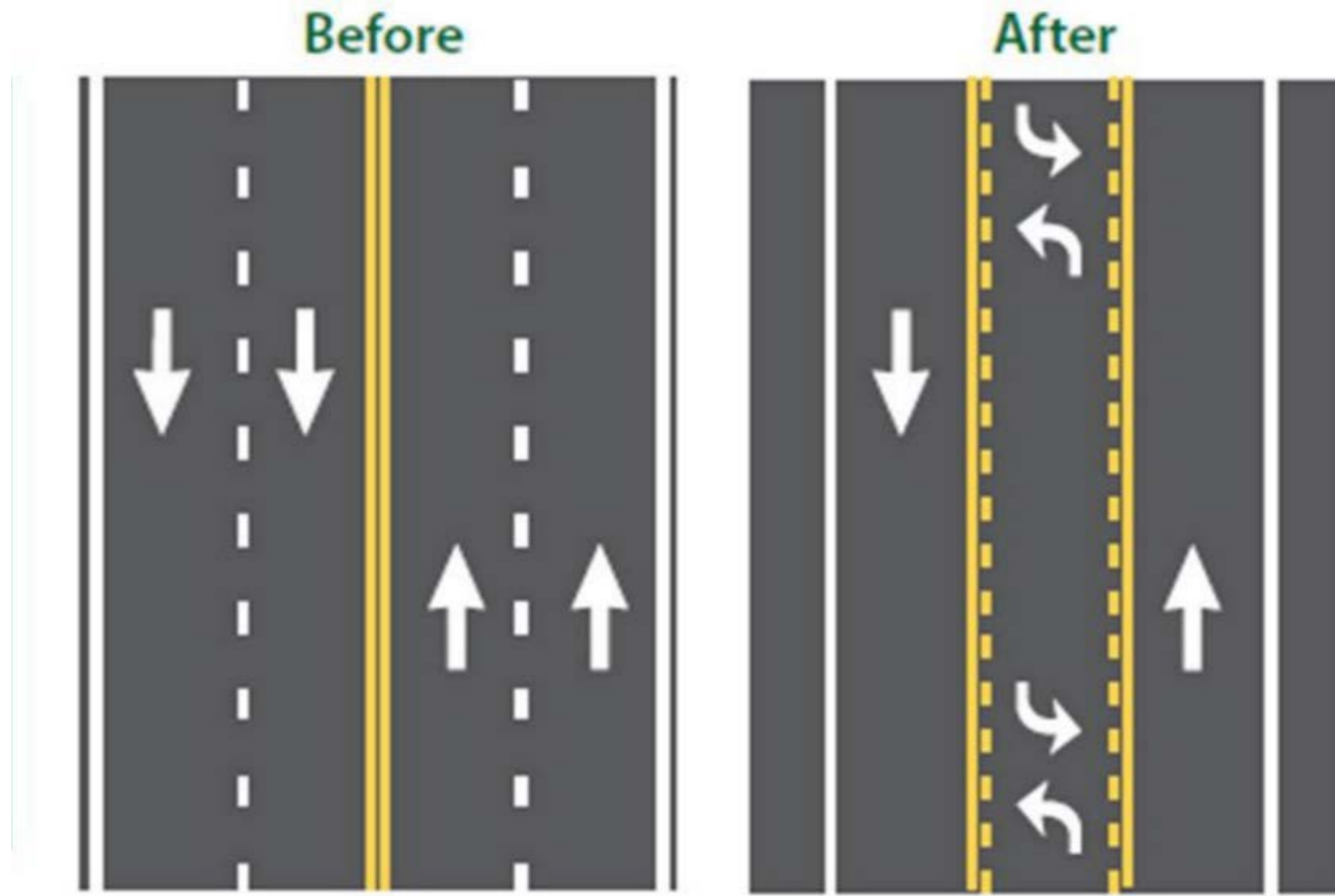


# Measures of Effectiveness

Travel Time = 4–5 minutes under either scenario

Level of Service									
Period	Compton St	Wayne St	Thurston Ave	Forest Hill	Liberty Rd	Wildhurst Ave	10th St	Huntington Blvd	Pioneer Rd
	Existing Conditions								
A.M.	A	A	B	A	C	A	B	A	A
P.M.	A	A	A	A	C	A	D	A	A
	Proposed Two-Way Left-Turn Lane								
A.M.	A	A	A	A	D	A	C	B	A
P.M.	A	A	A	A	C	A	D	B	A

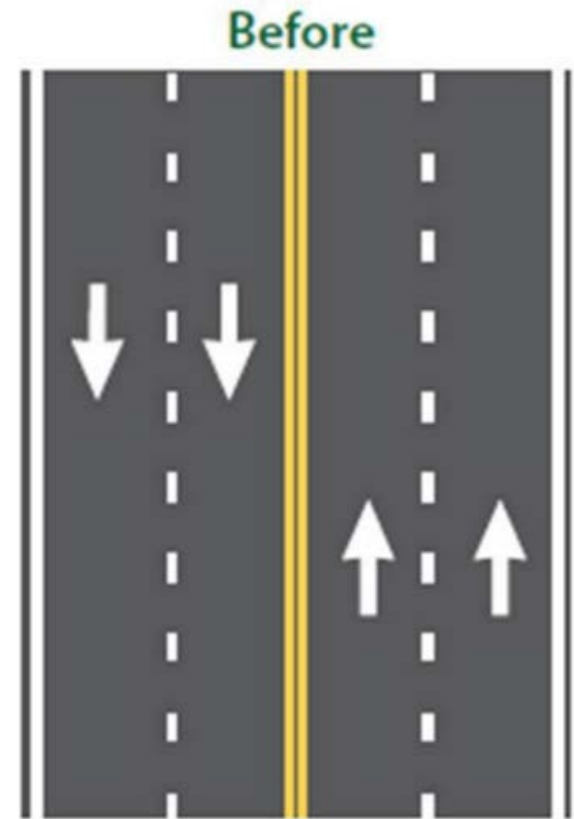
# Safety Benefits



# Crash History 2014–2016

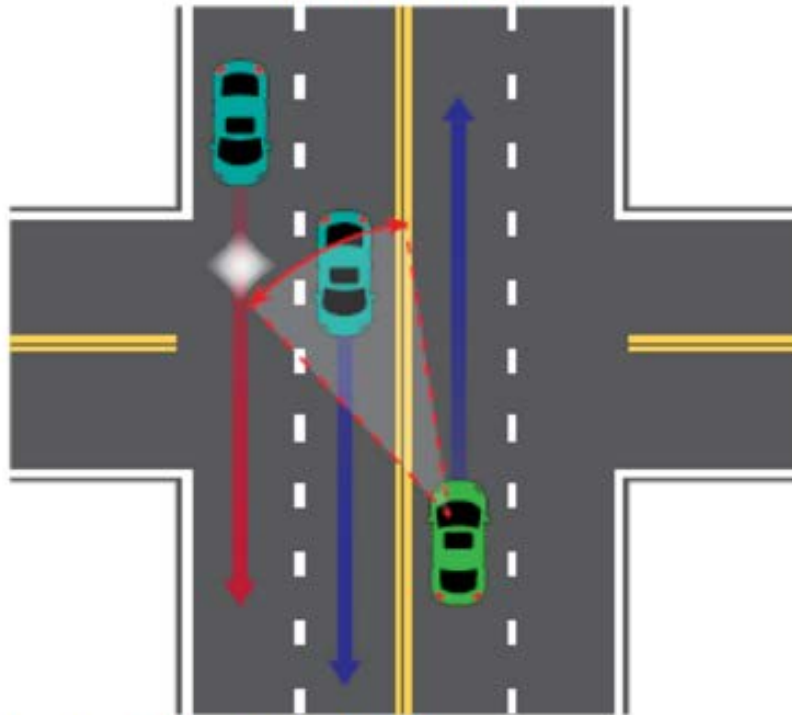
## ▶ Williamson Road (Angell to Carver)

- 48 rear end crashes
  - 33 in inside lane (70%)
- 59 angle crashes
  - 33 turning off of Williamson (56%)

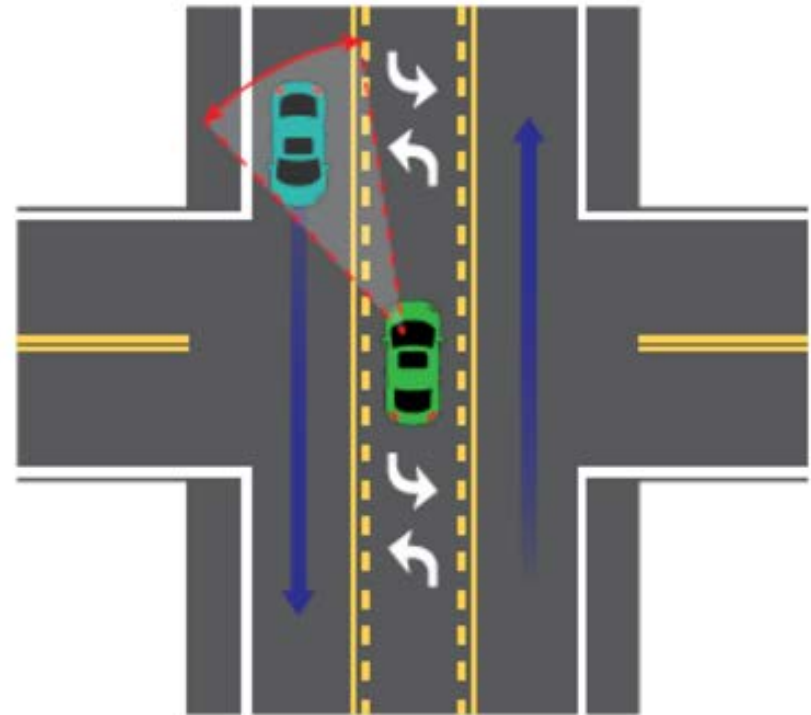


# Left Turns

**Four-Lane Undivided**  
(Outside Lane Traffic Hidden by  
Inside Lane Vehicle)



**Three-Lane**  
(No Hidden Vehicles)



*(Adapted from Welch, 1999)*

# Angle Crash

- ▶ From accident report:

“Vehicle 2 was traveling south on Williamson Rd. Vehicle 1 was traveling north on Williamson Rd in the left hand lane waiting to turn left onto Oakland Blvd. There was a van sitting in the left hand turn lane southbound Williamson Rd. Vehicle 1 turned thinking that no one was in the right hand southbound lane and hit vehicle 2.”

# 2004 Williamson Road project (Hershberger to Angell)

## Accident Analysis

- |   |  |
|---|--|
| ▶ 18 months before                                      | ▶ 15 months after                                      |
| ▶ 74 crashes  | ▶ 31 crashes   |
| ▶ 53 rear end crashes                                   | ▶ 12 rear end crashes                                  |
| ▶ 46 rear end crashes<br>in the inside through<br>lanes | ▶ 8 rear end crashes<br>in the inside through<br>lanes |

77% reduction in rear end crashes