

Walkable Community Workshop

Wollaston,
Massachusetts
July 12, 2010



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Central Transportation Planning Staff
of the
Boston Region Metropolitan Planning Organization

Built for Cars



Built for People



OBJECTIVES

- ✓ To Increase Awareness
- ✓ To Generate Commitment
- ✓ To Develop a Plan of Action



Enhancing the Walking Experience

through

Education

Encouragement

Enforcement

Engineering

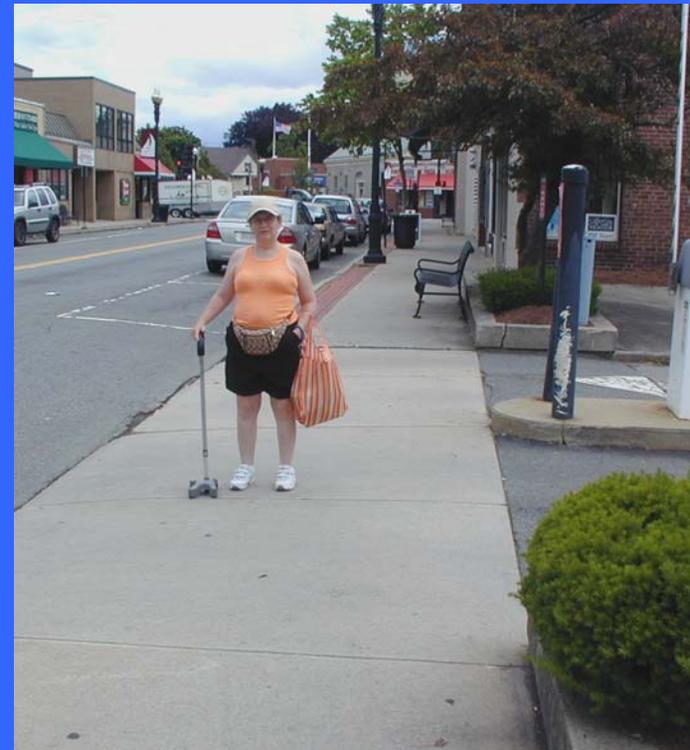
Elements of Walkability

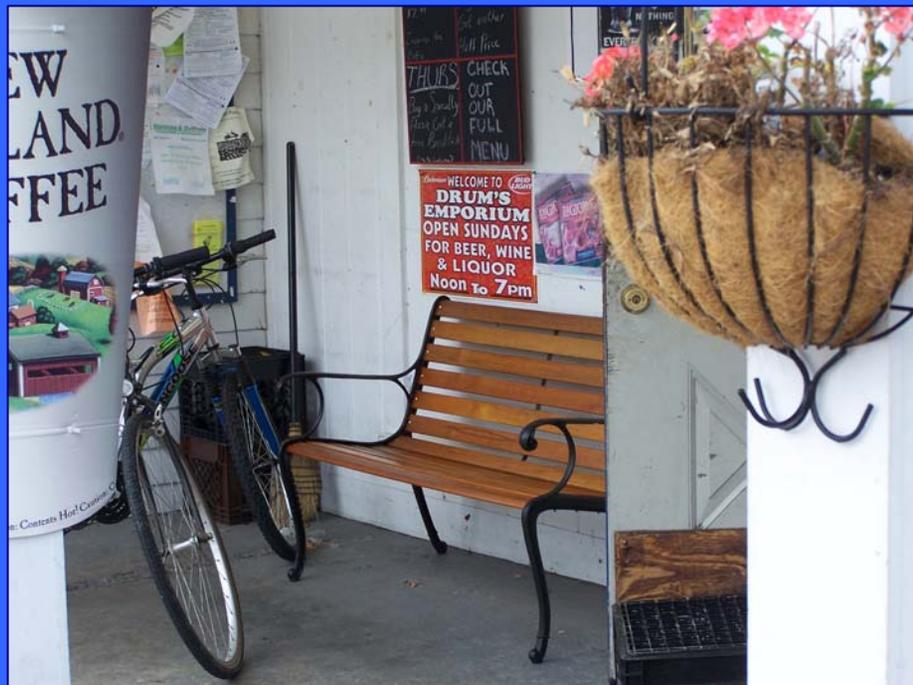
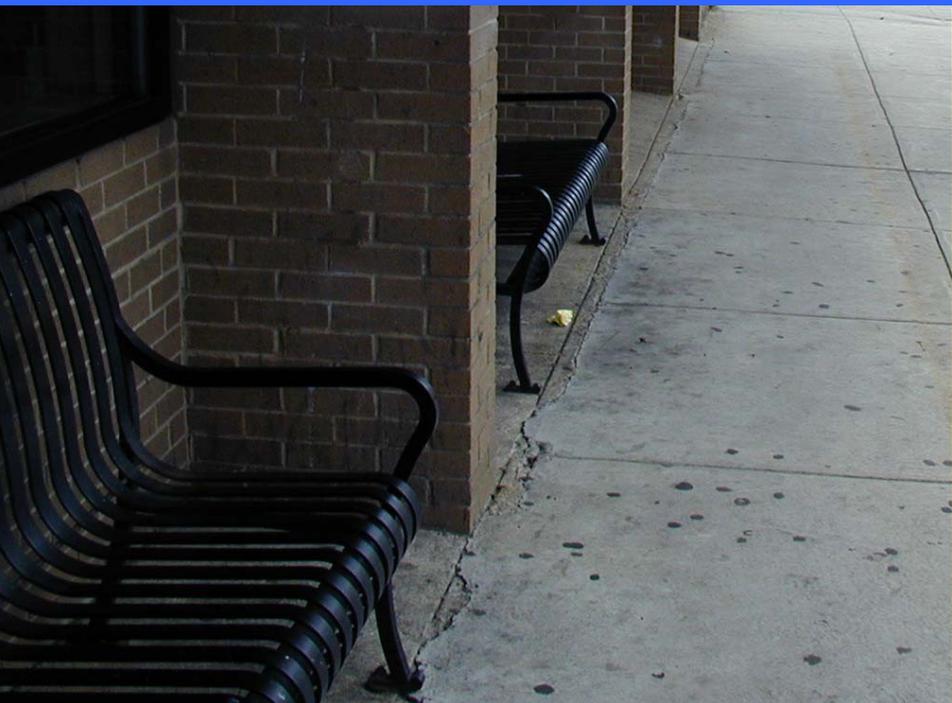
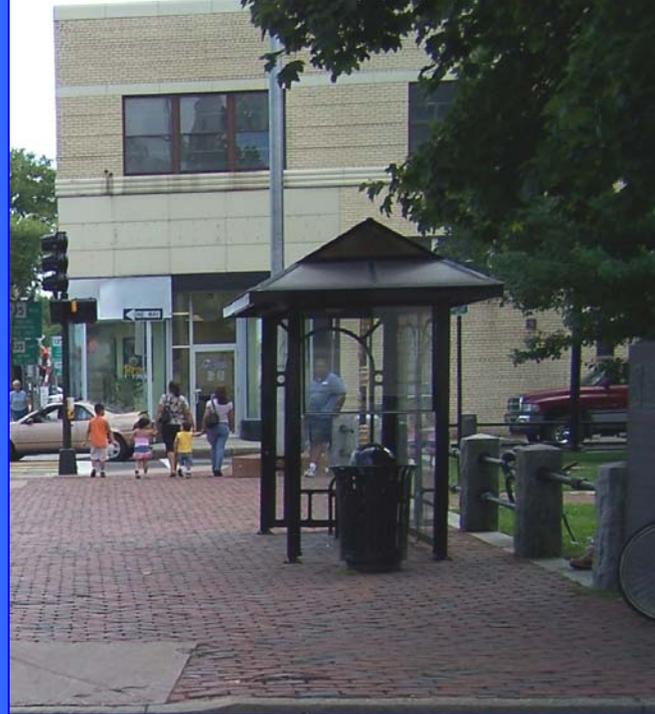










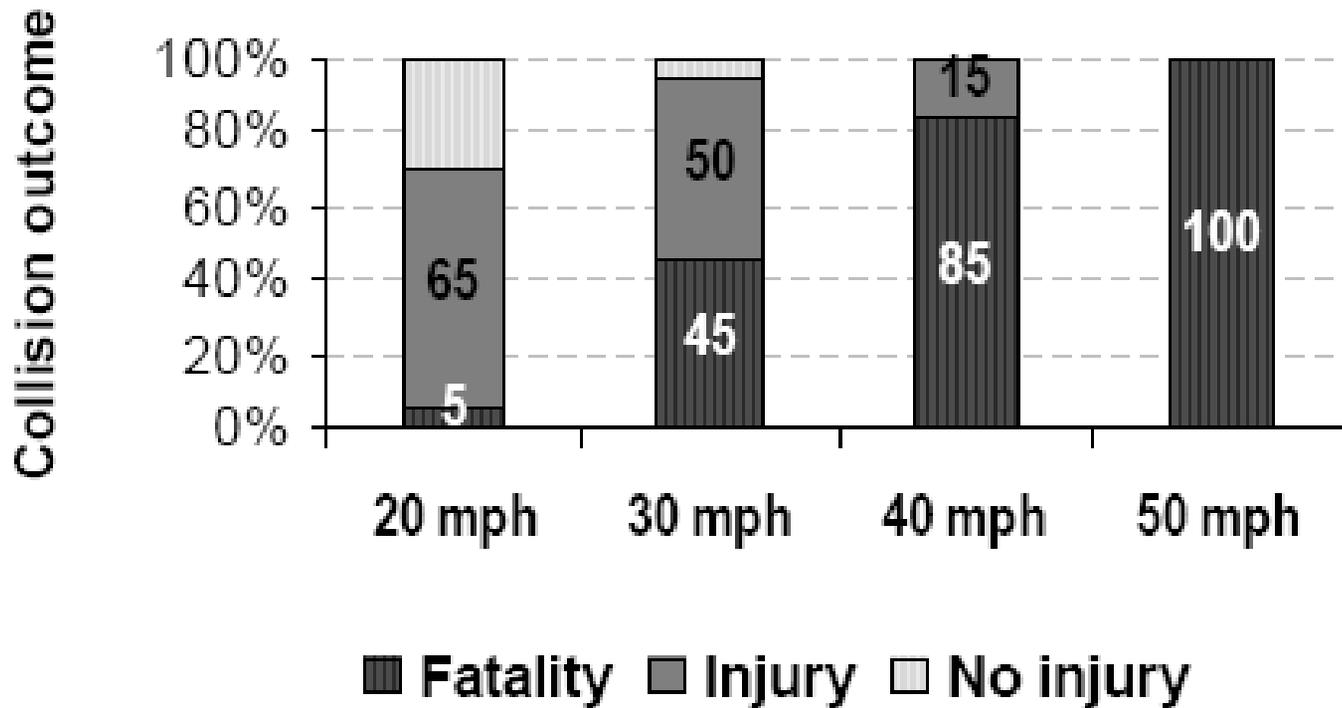


A pedestrian hit by a motor vehicle traveling at 30 mph has a 55% chance of surviving.

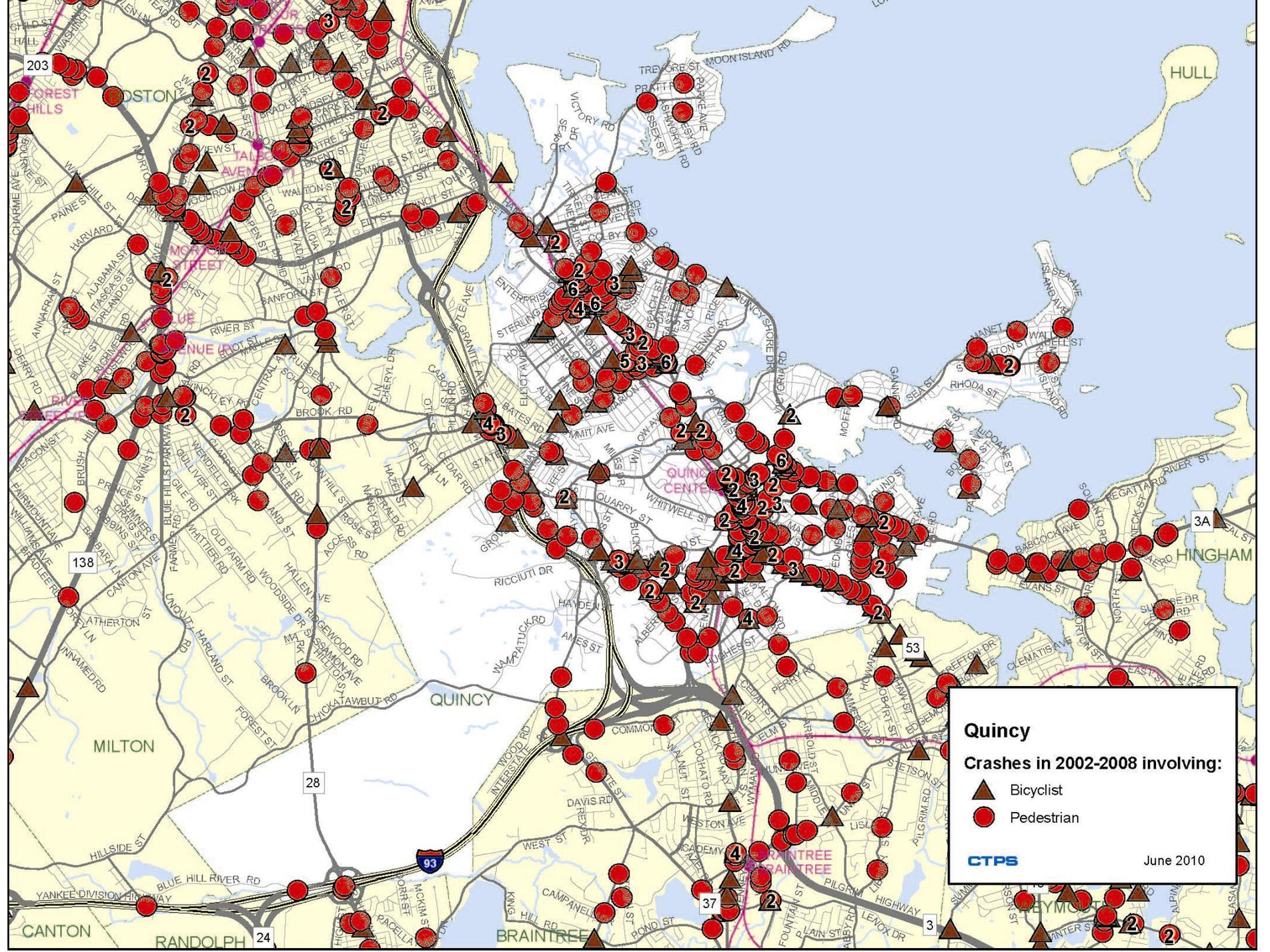
What are the chances of survival if the motor vehicle is traveling 20 mph?

95%

Impact speeds, pedestrian fatality and injury



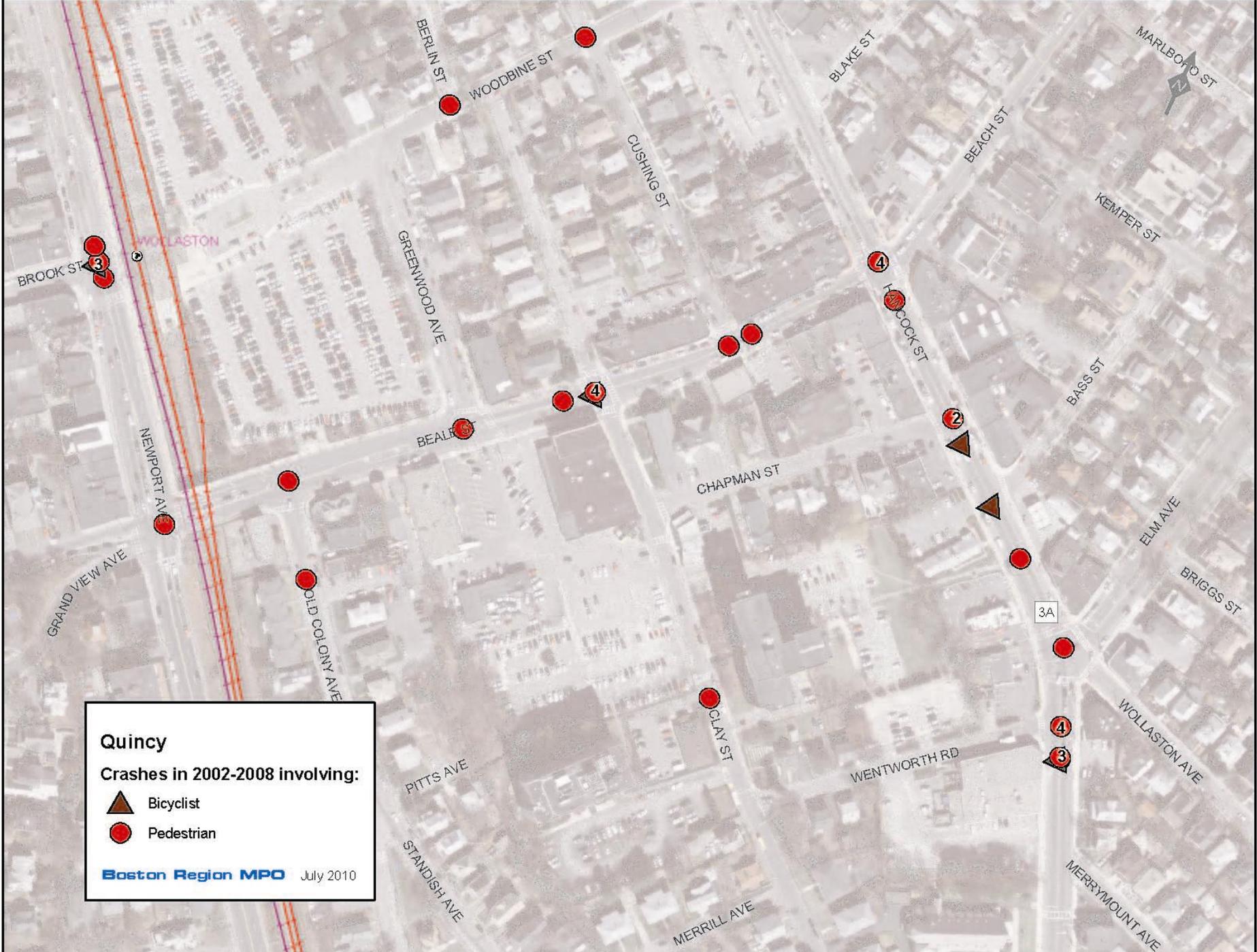
Effect of impact speed on pedestrian fatality and injury (U.S. Department of Transportation, Leaf WA, Preusser DF 1999)



Quincy
Crashes in 2002-2008 involving:

- ▲ Bicyclist
- Pedestrian

CTPS June 2010



Quincy

Crashes in 2002-2008 involving:

-  Bicyclist
-  Pedestrian

Where alcohol is a factor in pedestrian fatalities,
what is the greater problem -
drivers who drink *or*
pedestrians who drink?

Pedestrians

Where a motorist hits a pedestrian and the pedestrian dies, compared to the motorists, the pedestrians are

- *almost twice as likely* to have been drinking (36% versus 19%), and
- *more than twice as likely* to have been intoxicated (30% versus 13%).

SPEED
LIMIT
40

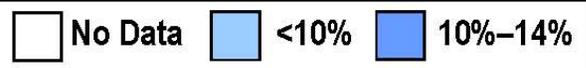
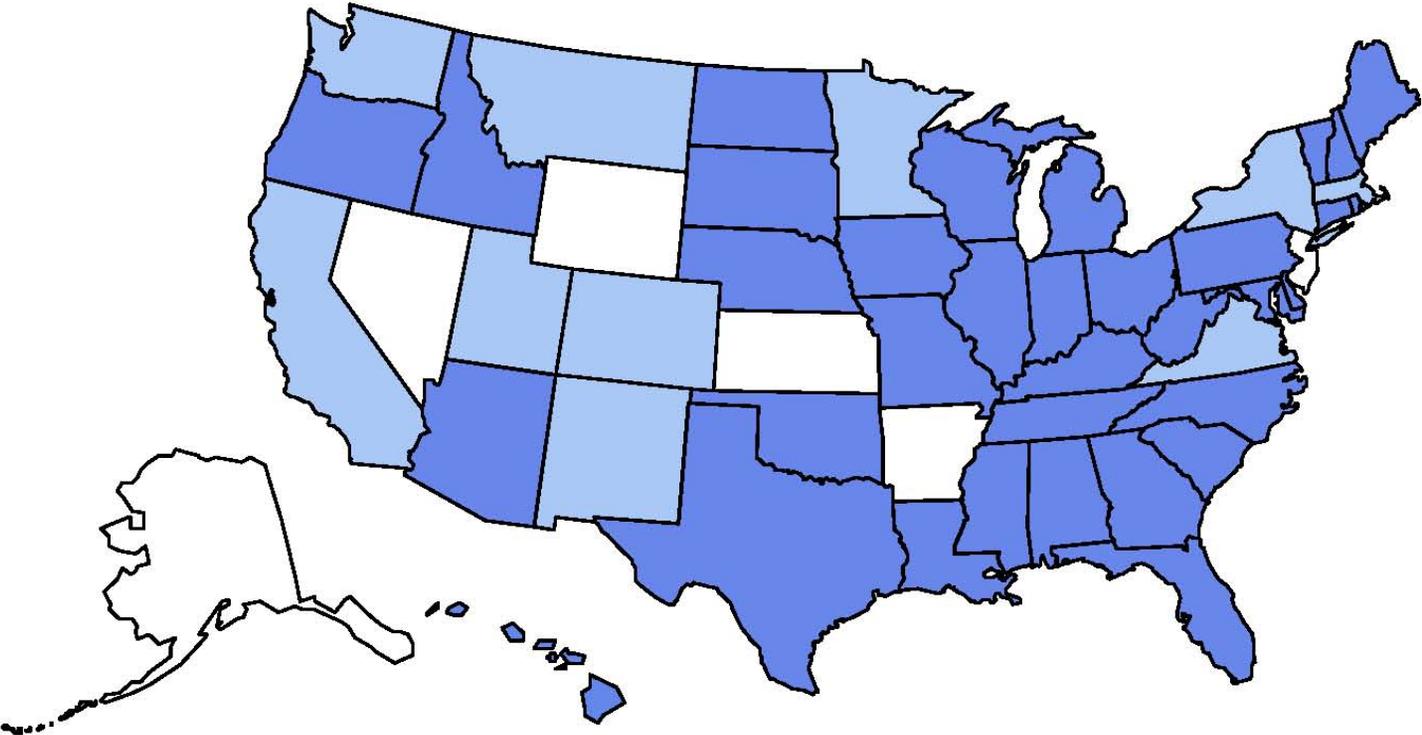
45
1100
1100



Obesity Trends* Among U.S. Adults

BRFSS, 1990

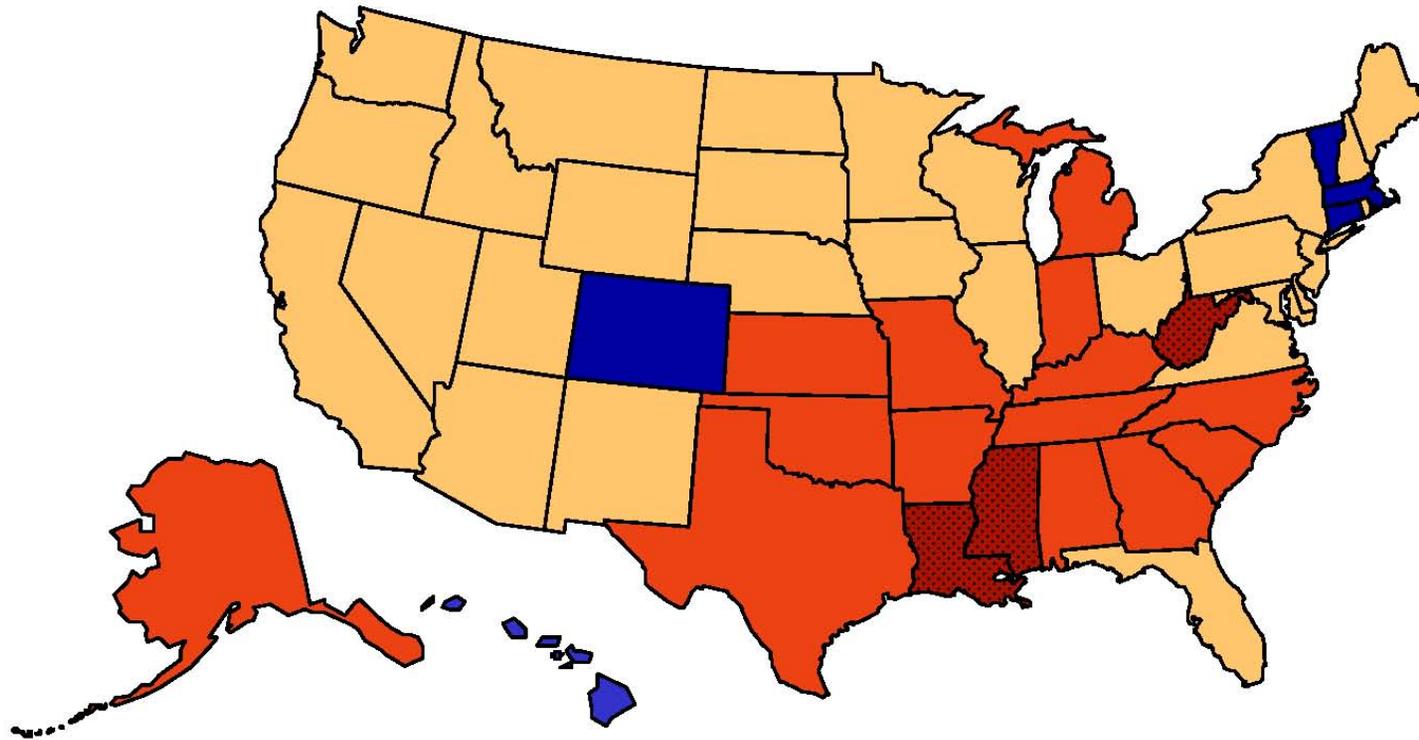
(*BMI ≥ 30 , or ~ 30 lbs. overweight for 5' 4" person)



Obesity Trends* Among U.S. Adults

BRFSS, 2005

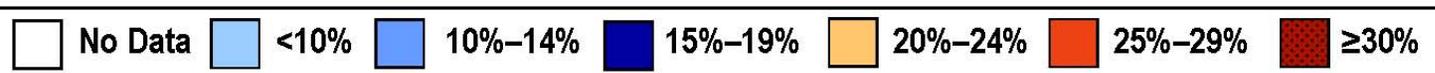
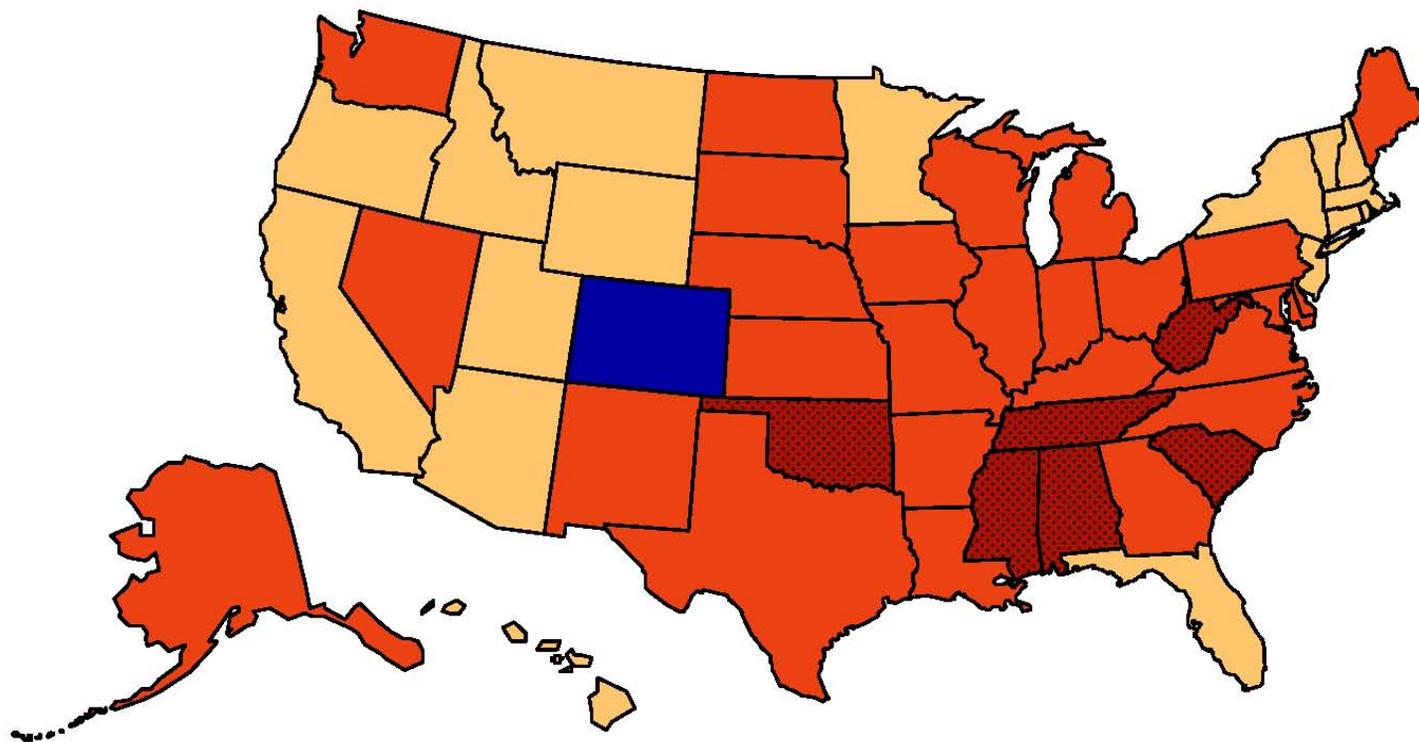
(*BMI ≥ 30 , or ~ 30 lbs. overweight for 5' 4" person)



Obesity Trends* Among U.S. Adults

BRFSS, 2008

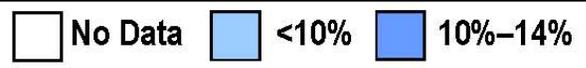
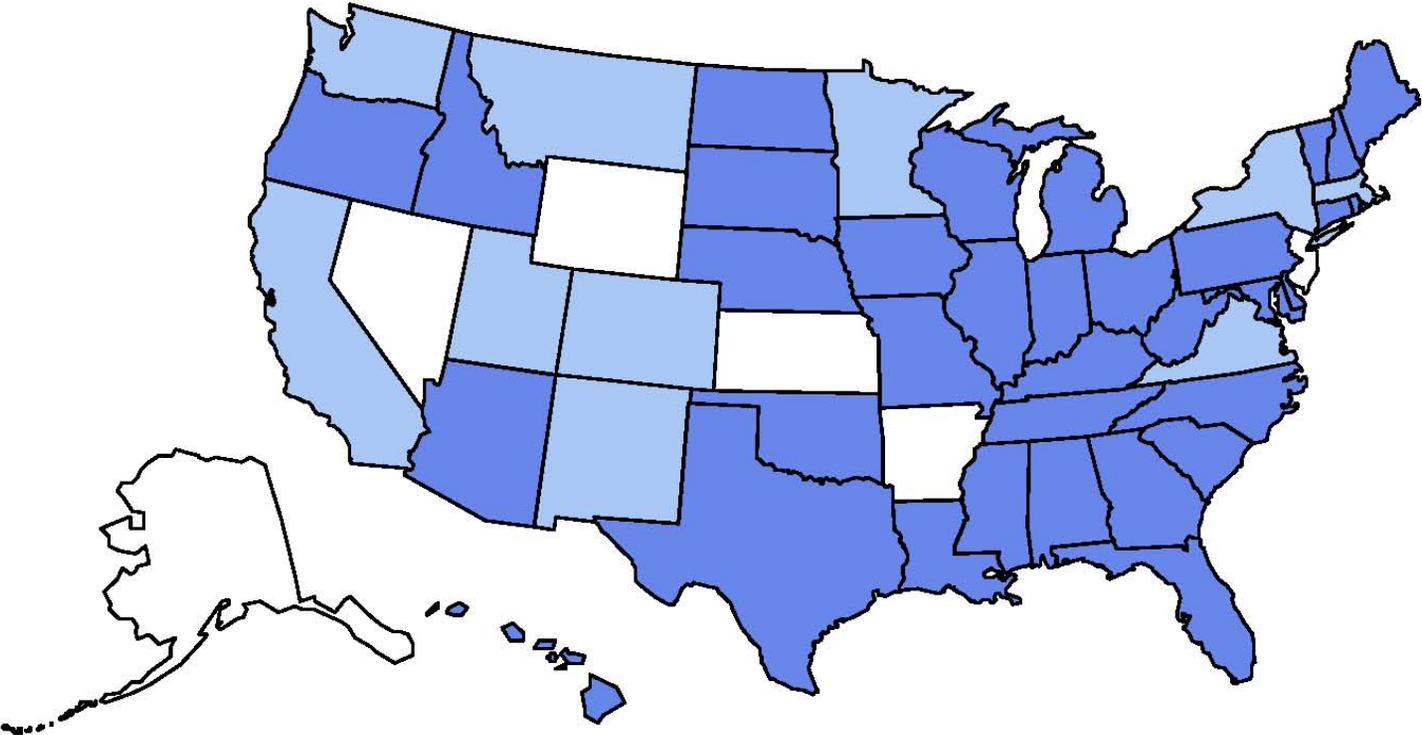
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Obesity Trends* Among U.S. Adults

BRFSS, 1990

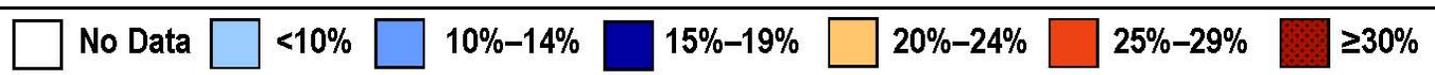
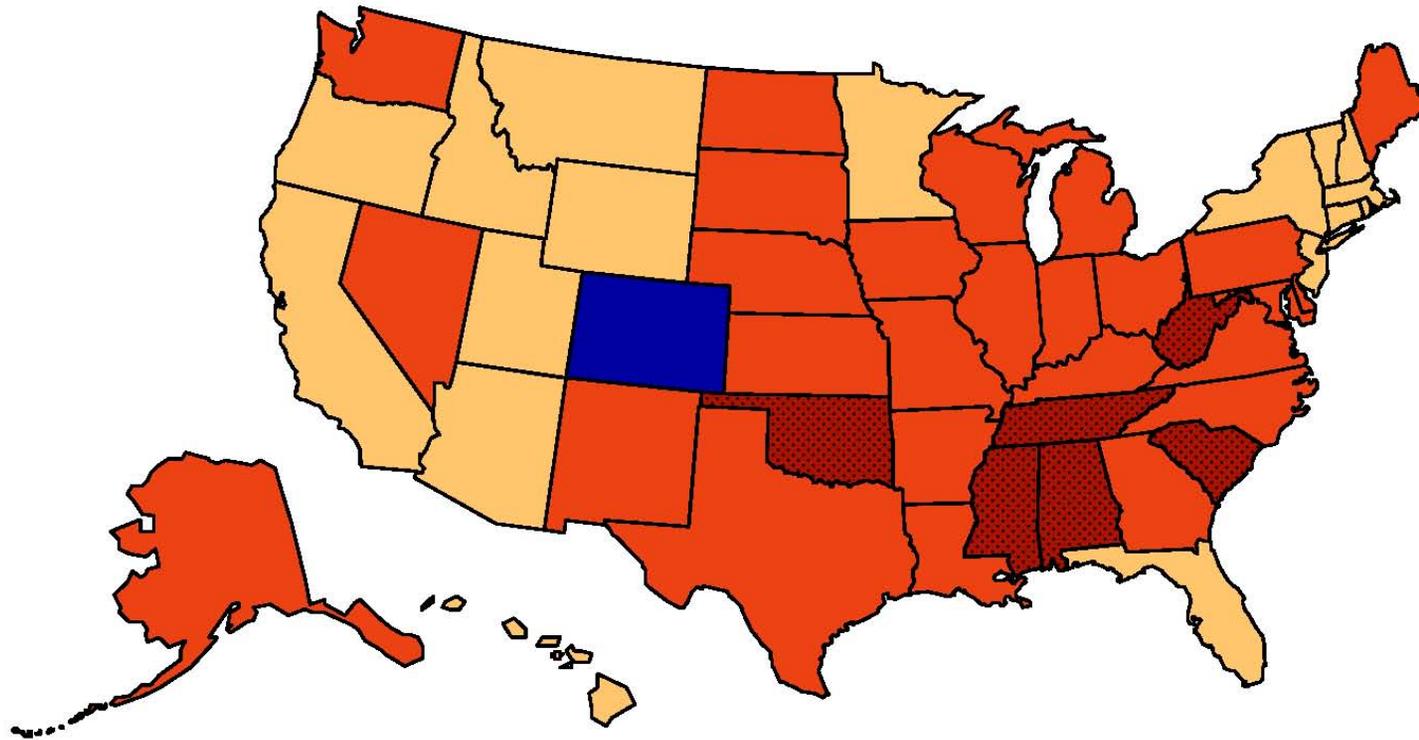
(*BMI ≥ 30 , or ~ 30 lbs. overweight for 5' 4" person)



Obesity Trends* Among U.S. Adults

BRFSS, 2008

(*BMI ≥ 30 , or ~ 30 lbs. overweight for 5' 4" person)





One gallon of gasoline = 20 pounds of CO₂



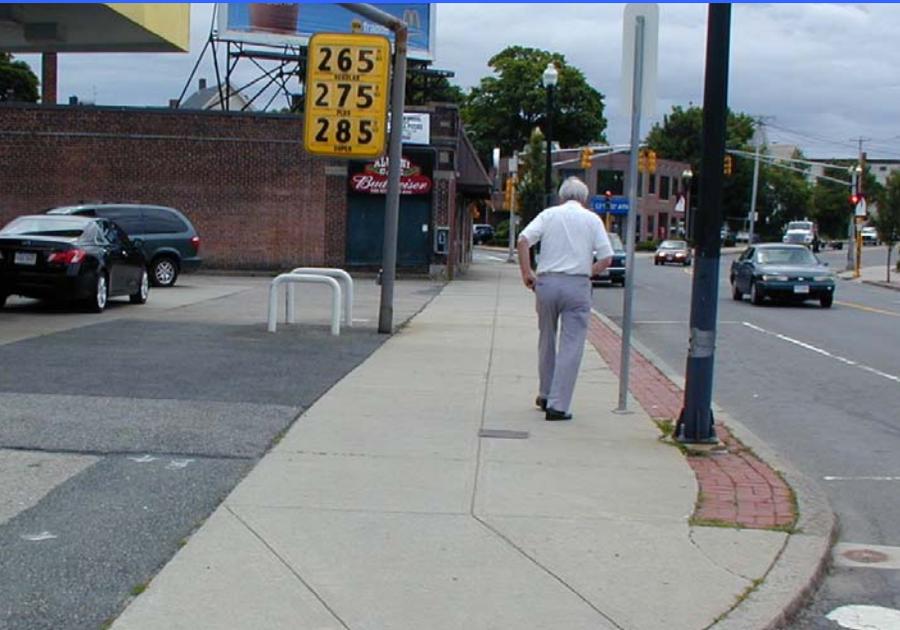






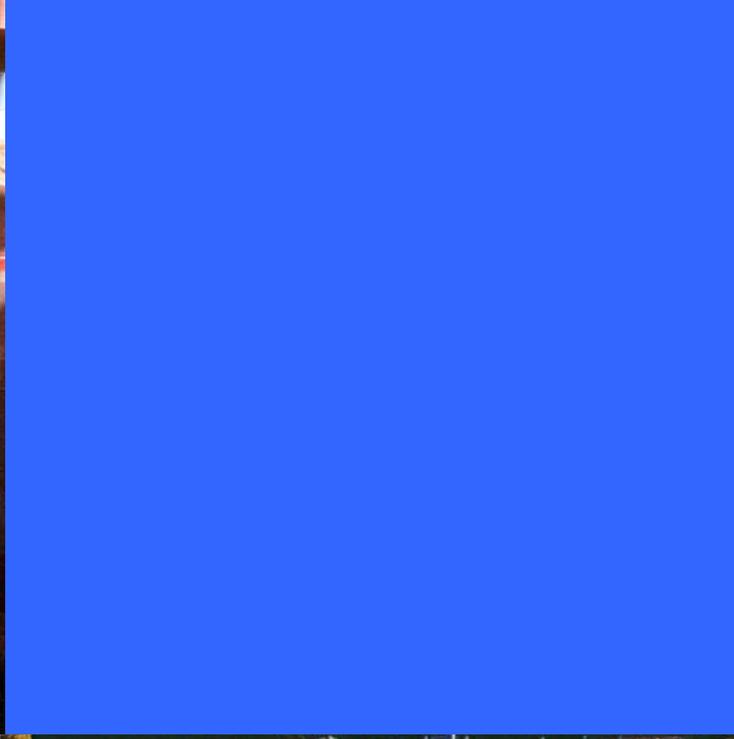














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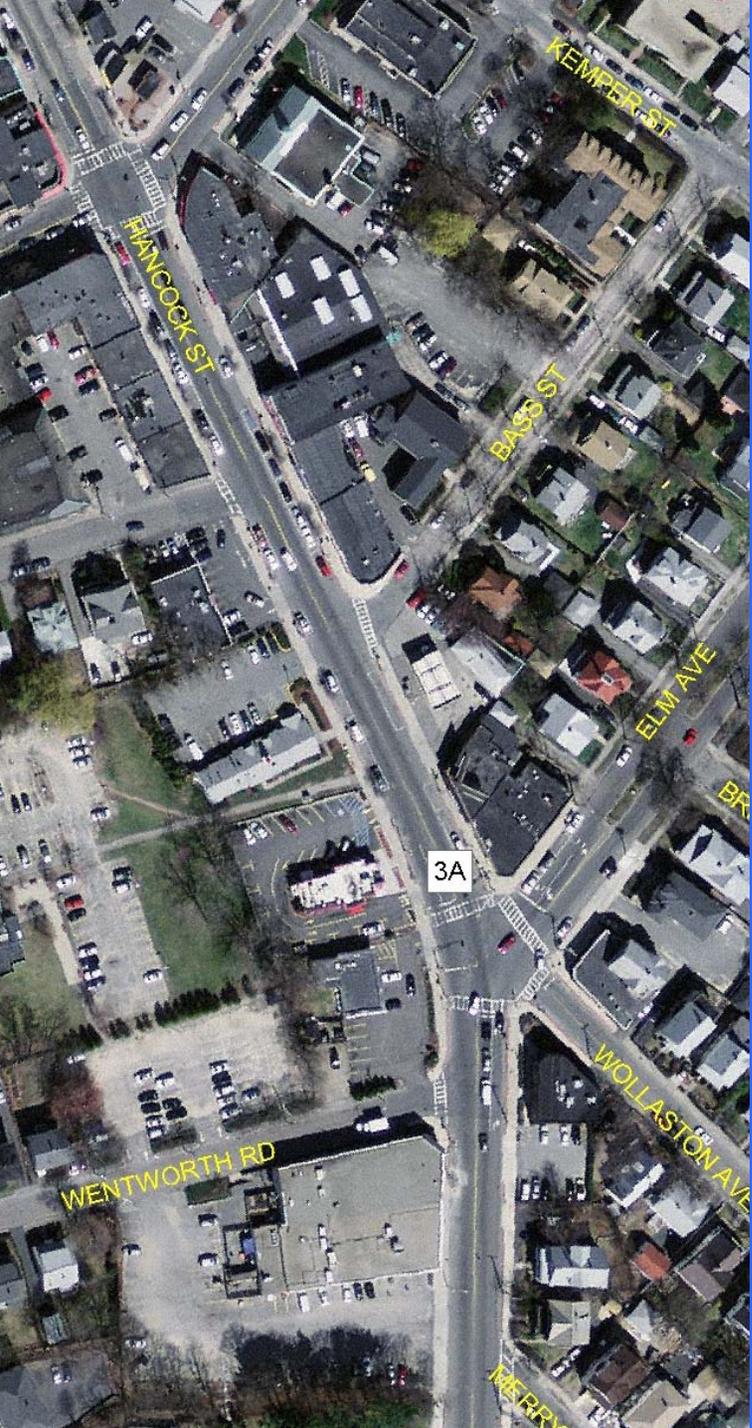
Beale Street



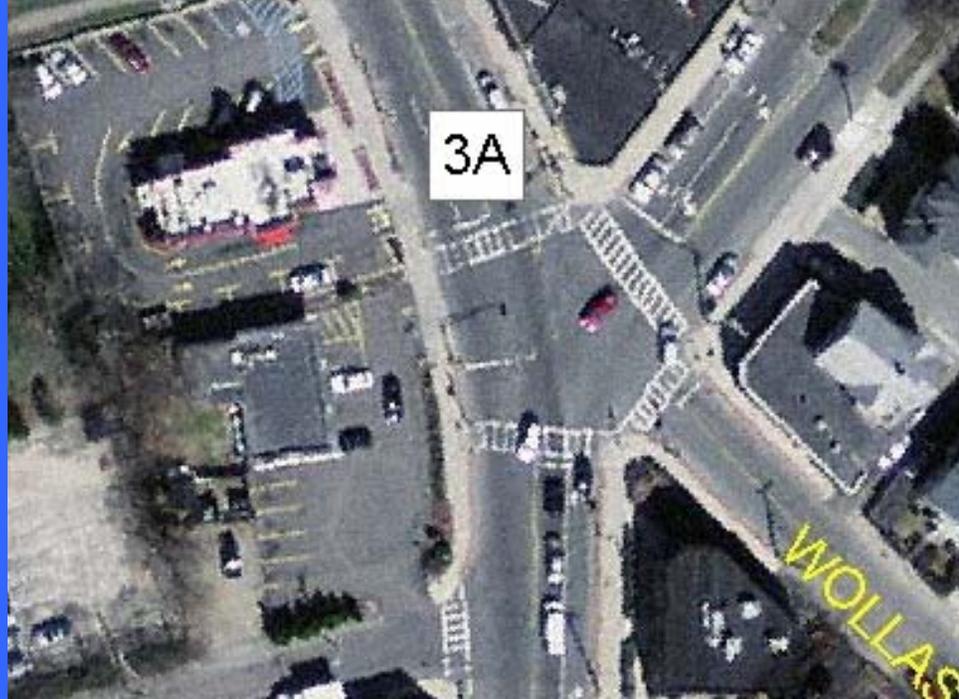
at Greenwood Avenue

at Clay Street





at Beach



at Elm Avenue

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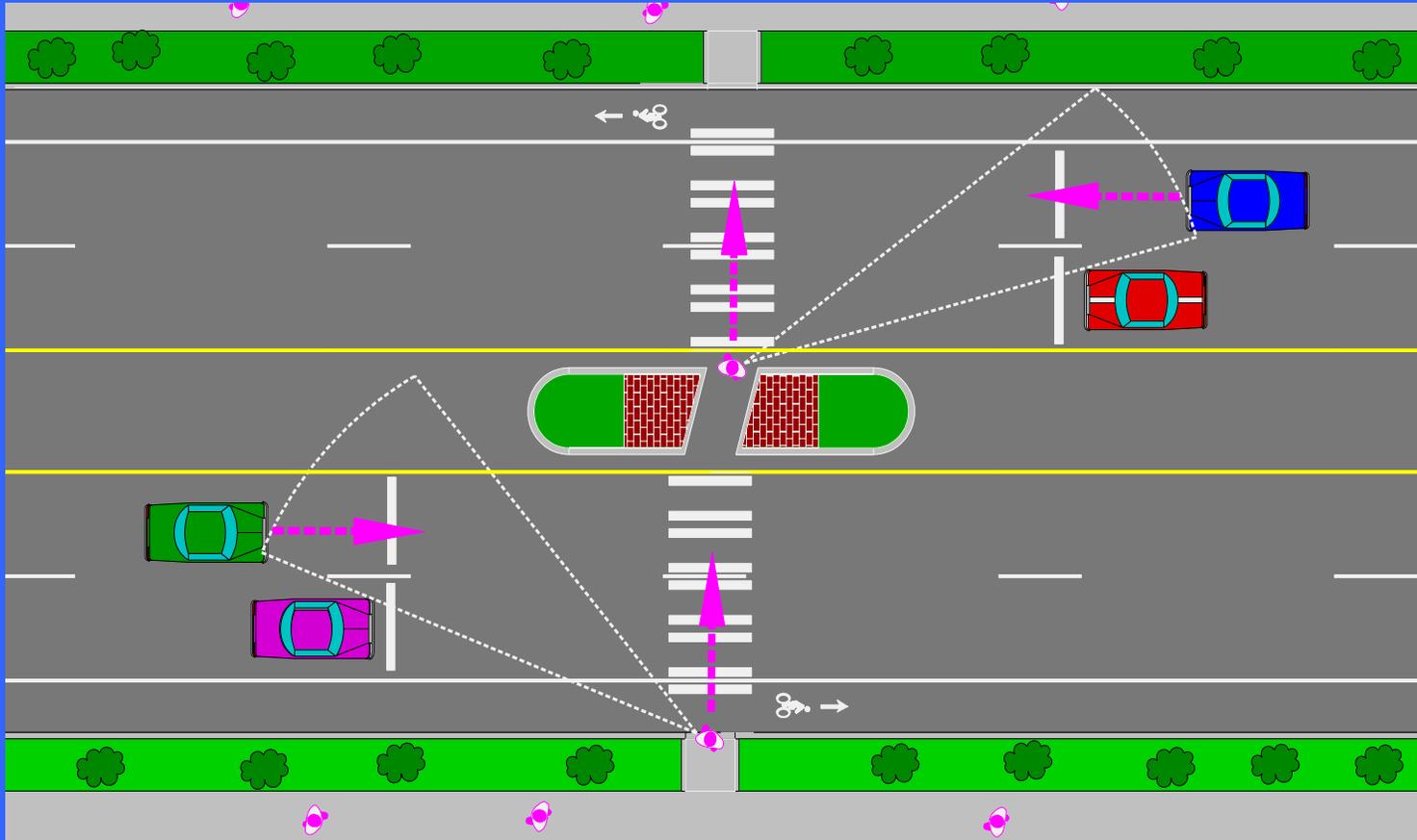


Stop Bar meets standards, but is too close

Stop Bar pulled back



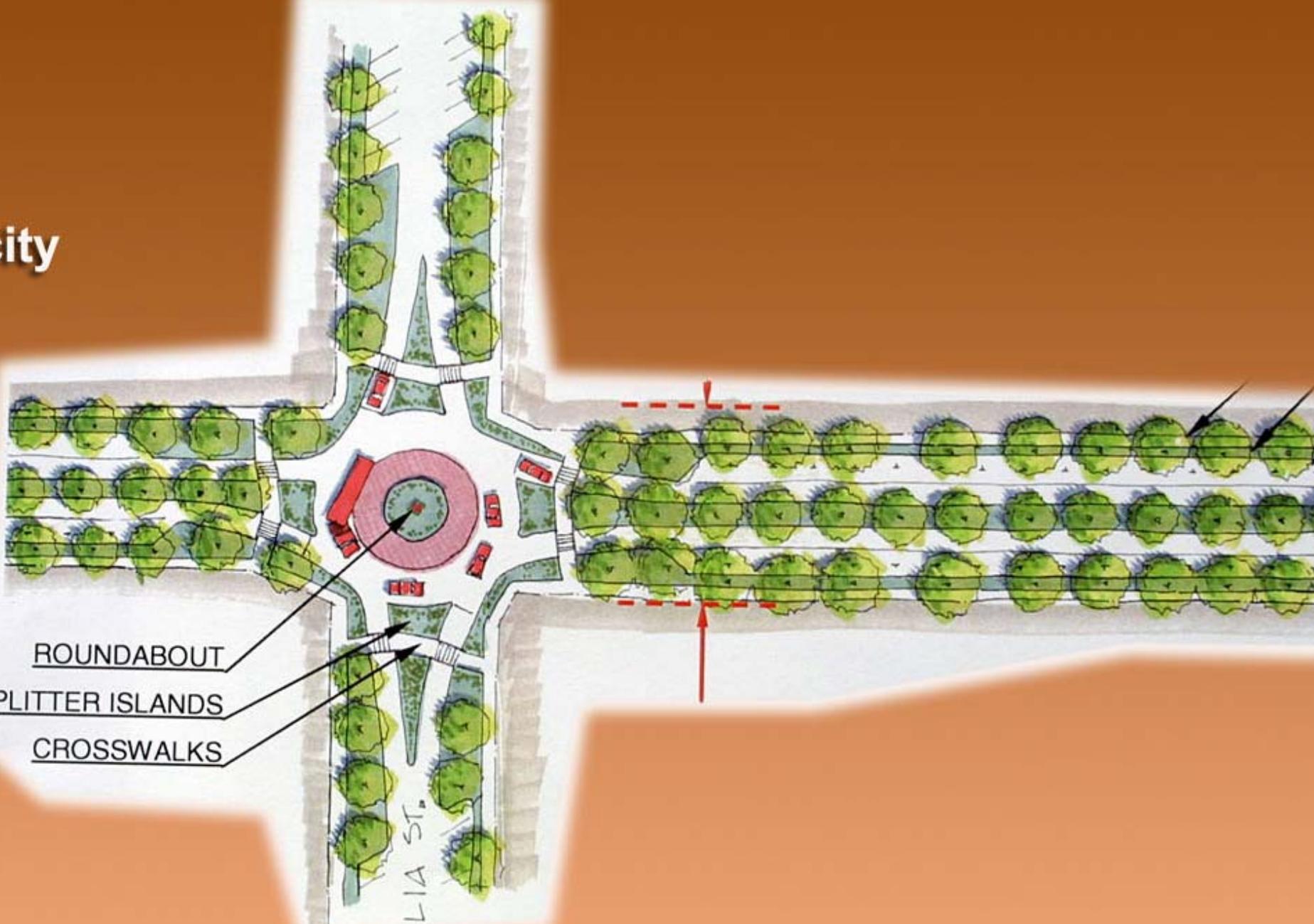
Advance Stop Bar – helps prevent “Multiple Threat” crashes



Problem: Car 1 stops to let pedestrian cross; car 1 masks car 2, which doesn't stop, and hits pedestrian at high speed.

acity

e



ROUNDABOUT

SPLITTER ISLANDS

CROSSWALKS

LIA ST.

Roundabout Advantages

Fewer conflict points

Pedestrians cross one direction of traffic at a time

No signals, no unnecessary waiting time

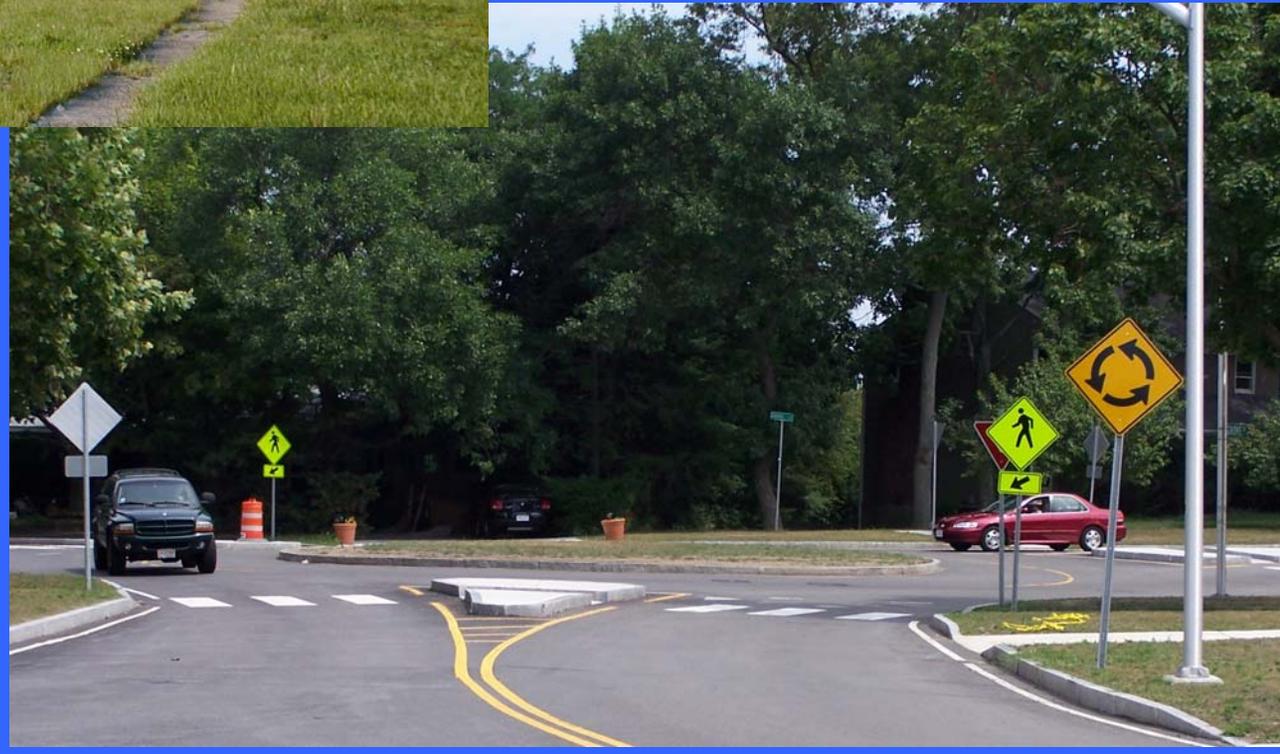
Slower speeds, contributing to:

- Decrease in crashes (35%)
- Large decrease in crashes with fatal/serious injuries (76%): collisions are sideswipes, not head-on or broadside



Belmont

Dedham







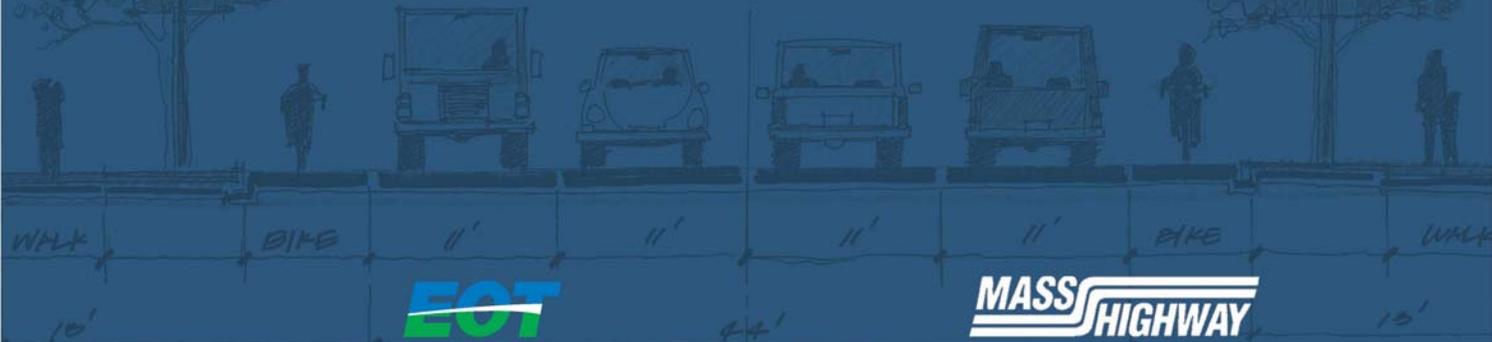
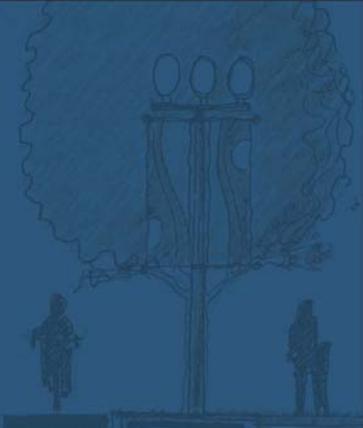


2006

Design Guide

Massachusetts Highway Department

Project Development & Design Guide



EOT

MASS HIGHWAY

Chapter 3

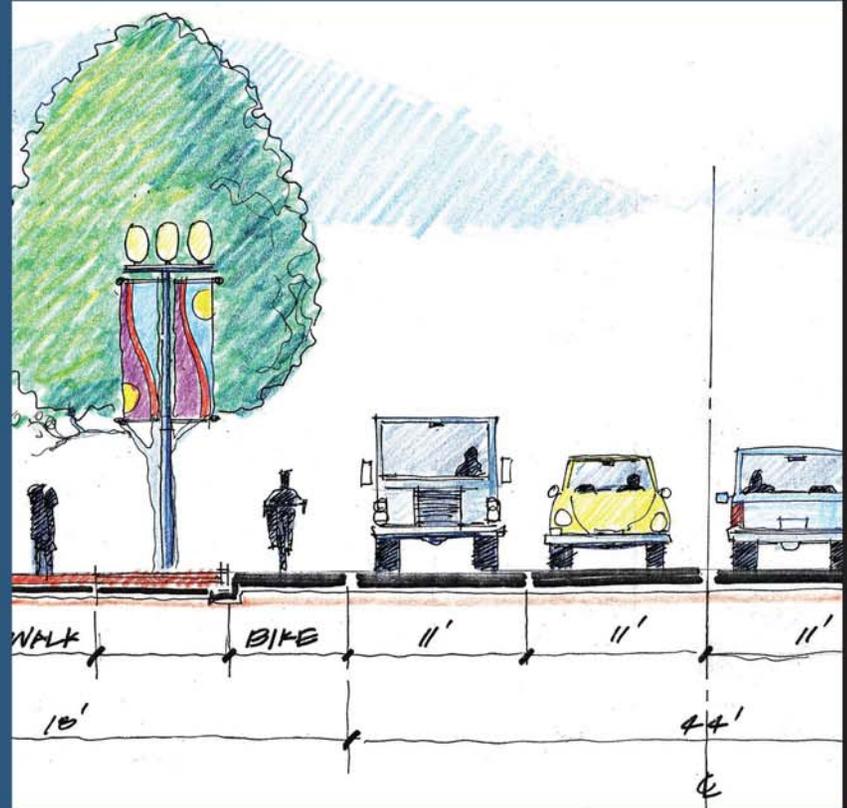
Basic Design Controls



3 Basic Design Controls

Chapter 5

Cross-Section and Roadside Elements



5 Cross-Section & Roadside

Chapter 16

Traffic Calming & Traffic Management



Chapter 17

Shared Use Paths and Greenways



Cambridge





Wellesley



Boston



Natick



Ayer

Maynard

Ipswich



Dedham



Walking Audit



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