

# Narrow Streets, Timely Response



Overhang 14 feet'

**Healthy Streets for America**

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and Director of Walkable Communities, Inc.**







*The World is Changing  
Expect:*

## ***Option One:***

***25% more traffic every ten years.***

*More intersections failing.*

*More people spreading out into  
canyons, ridges and other high risk  
locations.*

***Also Expect:***

***More cars per household***

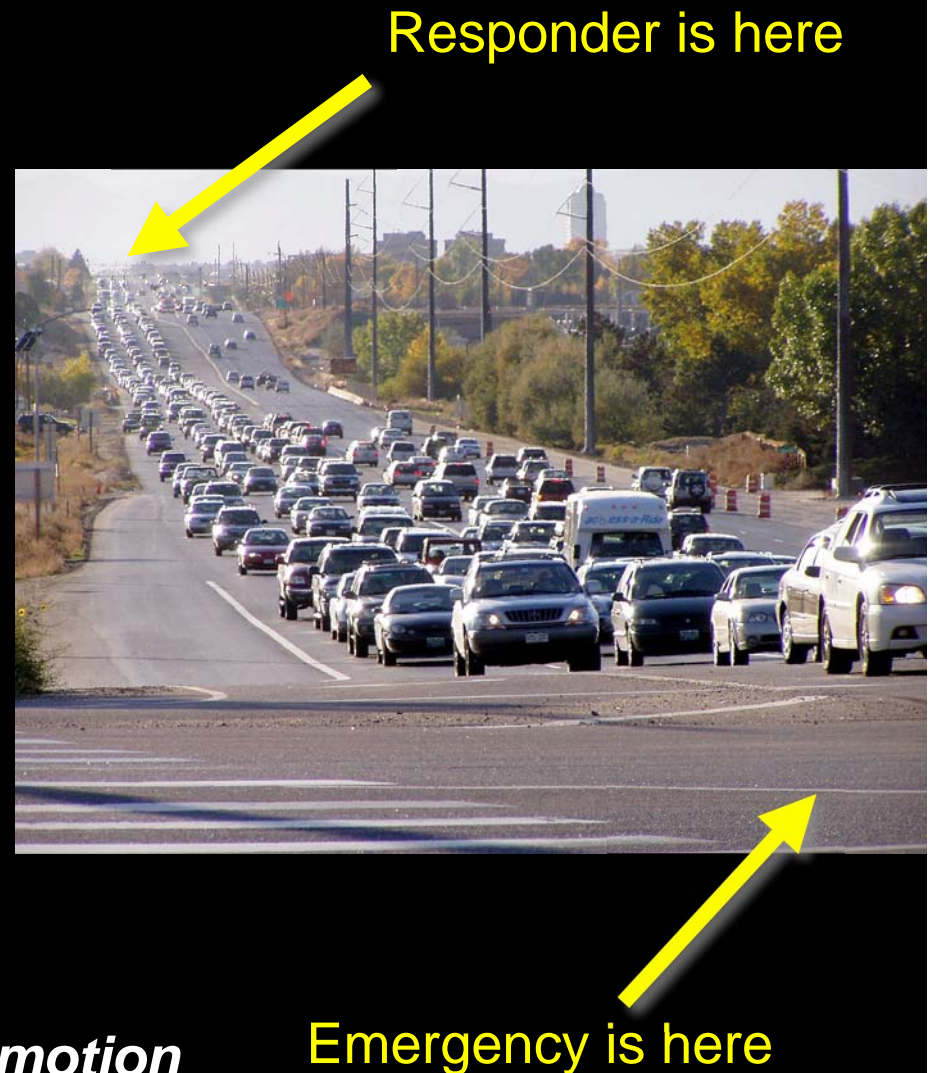
***Limited new lanes and limits on  
intersections being rebuilt***

***More demand for slowing traffic***

***More demand for traffic to stay in motion***

***More demand for safer streets***

***More demand for quieter streets***

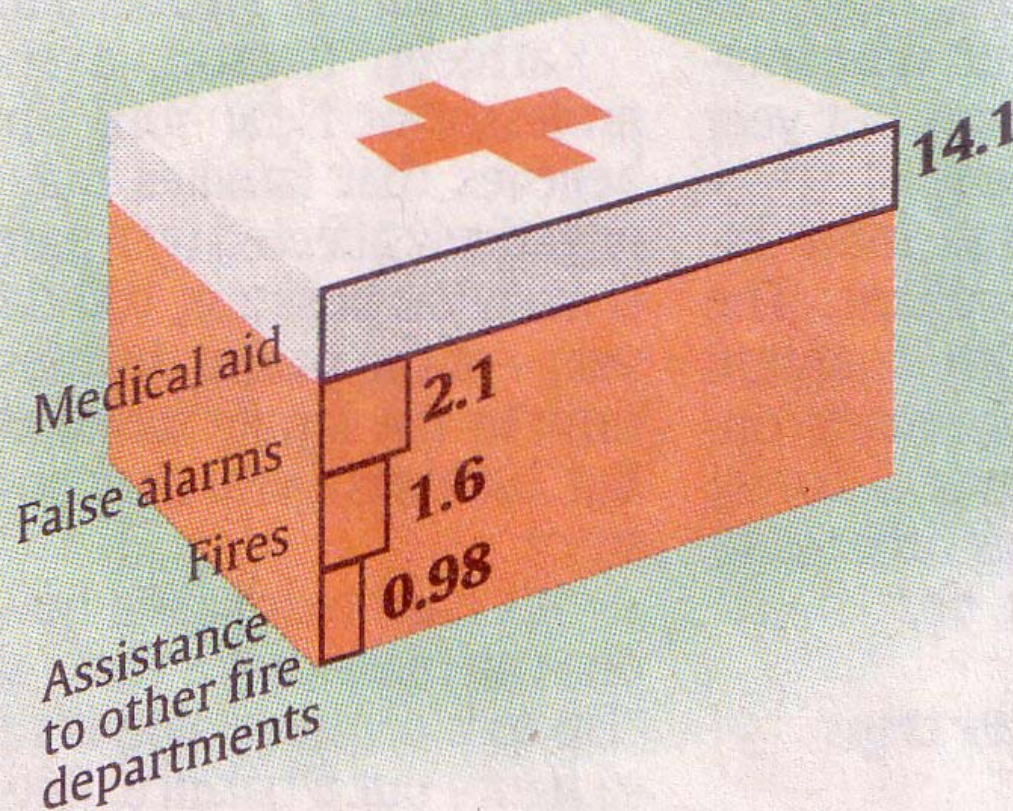




# USA TODAY Snapshots®

## Help on the way

Top four types of fire department responses in 2004  
(by millions of responses):



Source: U.S. Fire Administration

By David Stuckey and Adrienne Lewis, USA TODAY



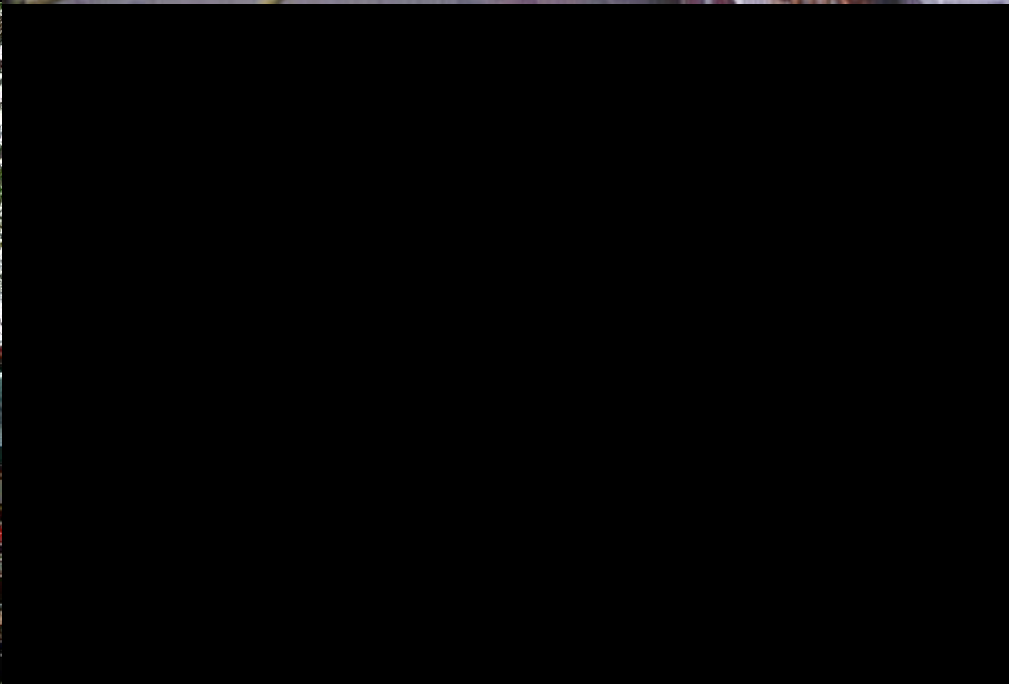
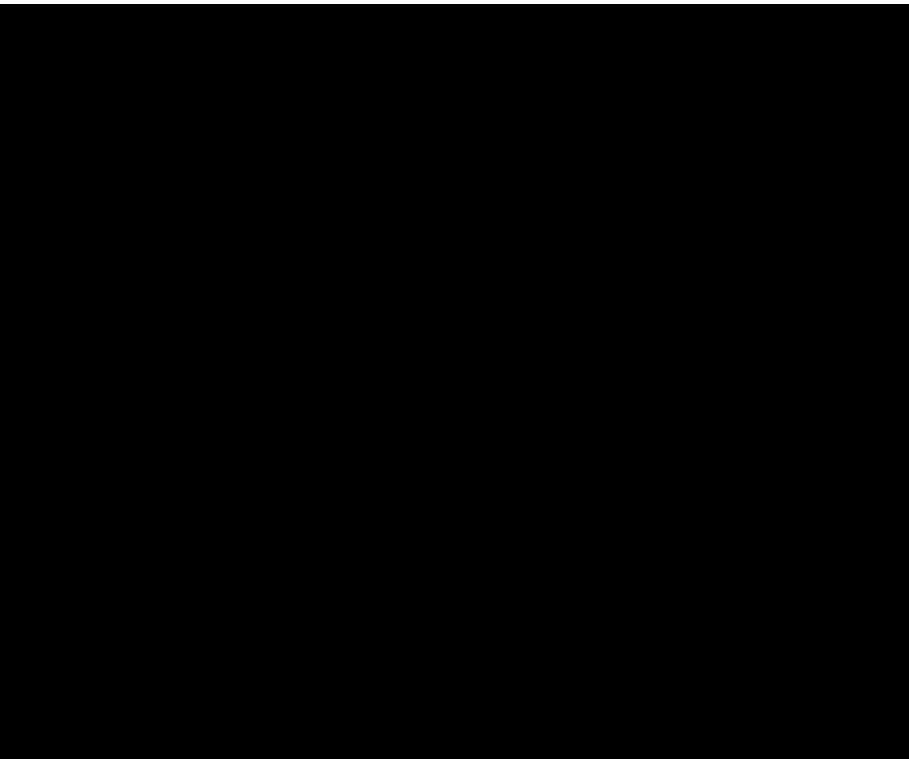


Portland, Oregon











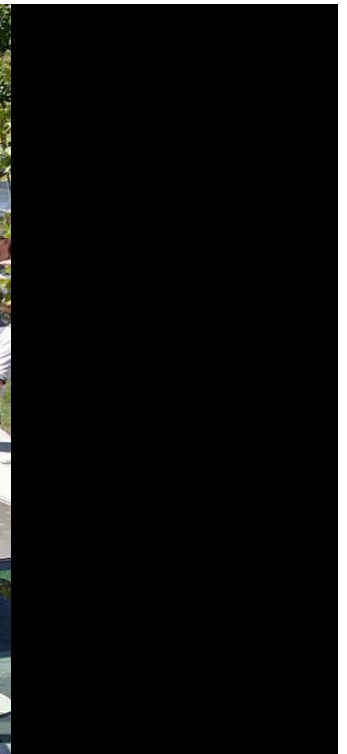
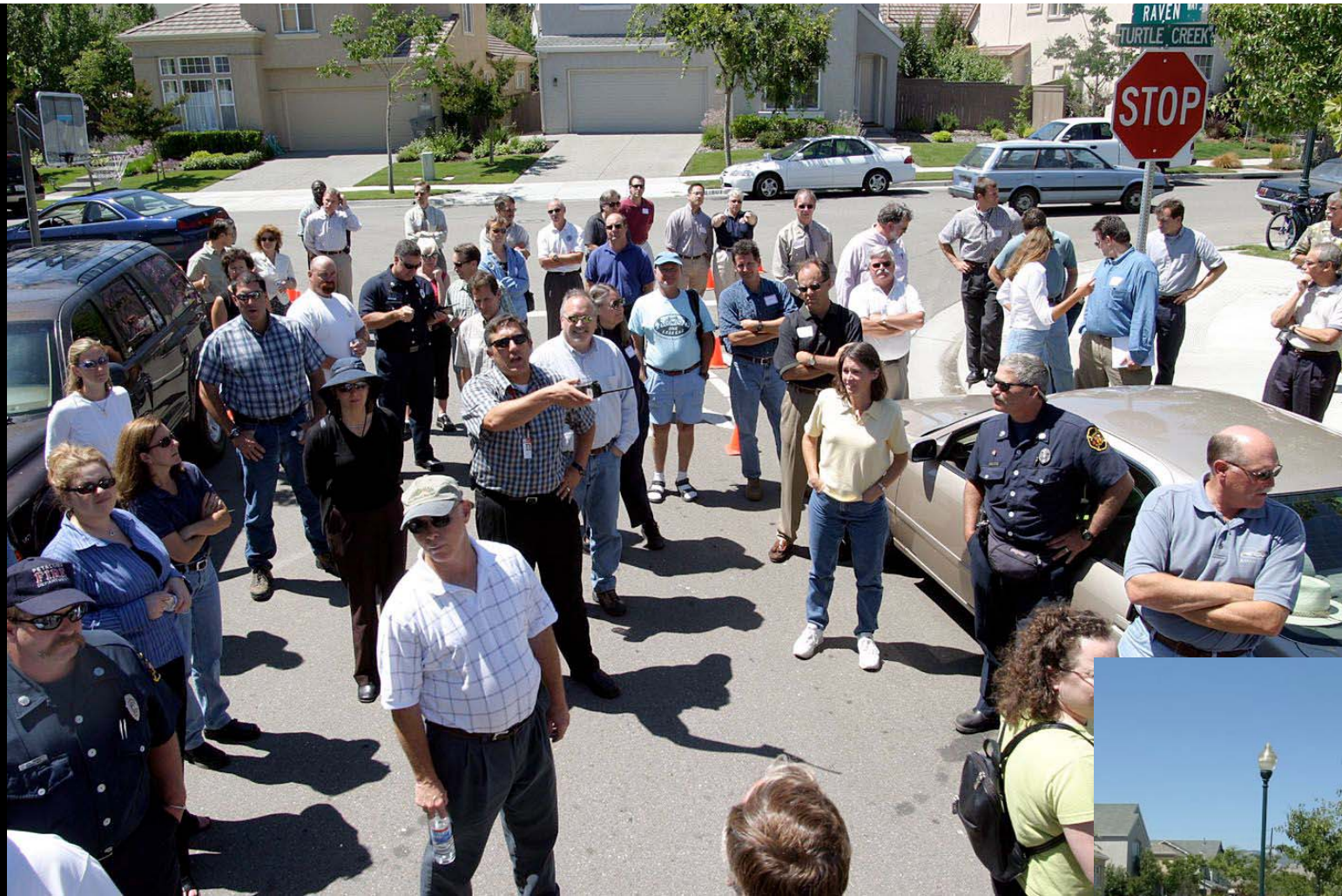


Beemer—\$28,000  
Fire hose—\$300  
Knocking the glass out of this  
Idiot's car—PRICELESS!!









# Mobile Narrow Streets Workshop

Petaluma, California





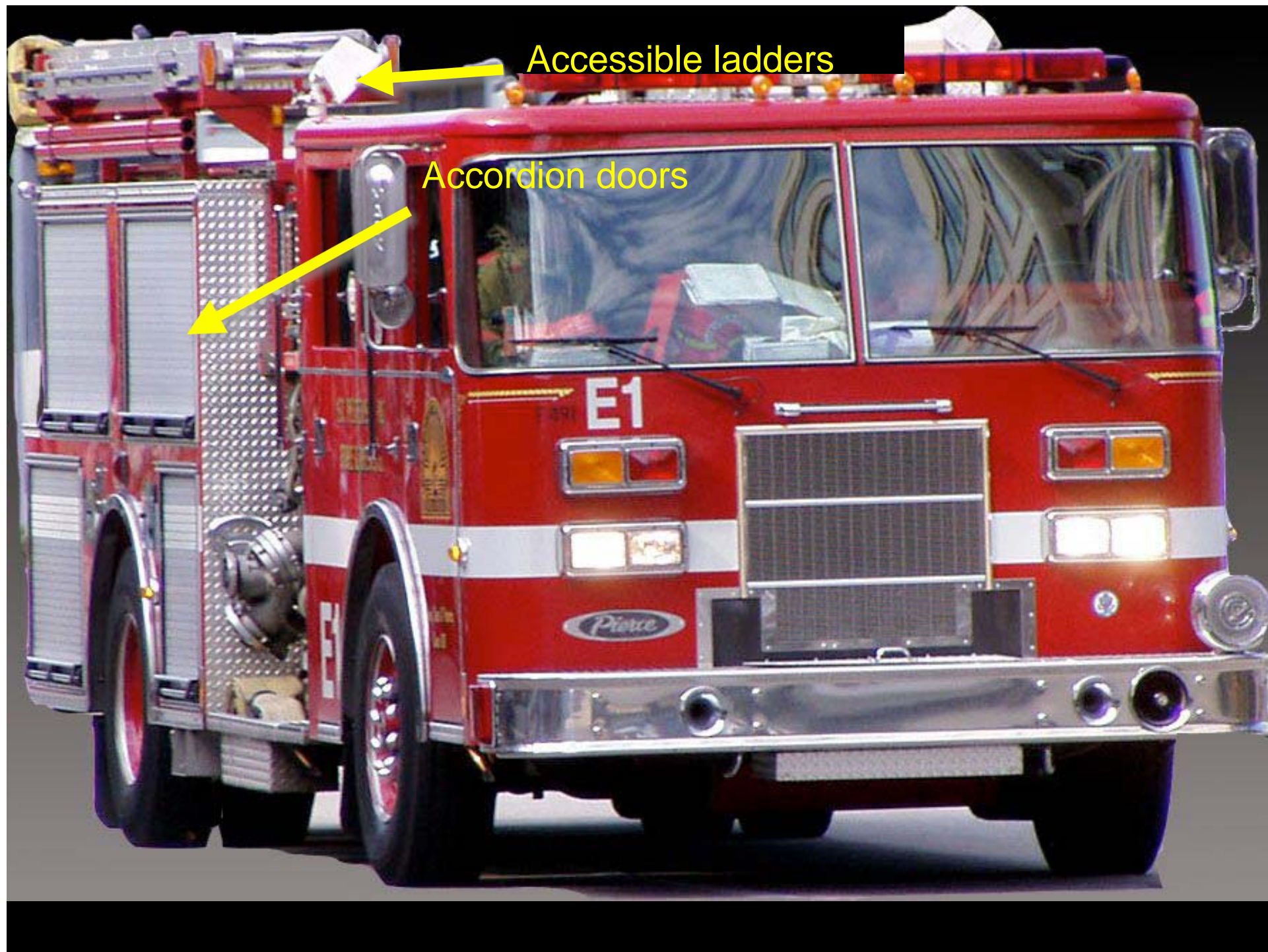












Accessible ladders

Accordion doors



Turning Radius must also accommodate overhang









# Emergency Response

## Protect Access to all Locations

- No humps or bumps (some tables or raised intersections)
- Proper turn radii (protect right-turn entries)
- Preserve 20' operations width
- Bike lanes and parking help with turning radius
- Set landscape features back from corners
- Curb extensions are helpful in protecting access
- Provide high connectivity (system redundancy)
- Use care in tree selection and placement

Performance Measure: Able to maintain 4 minute response time to all most locations



















Gainesville, Florida      Emergency Response Team and Public Works Department





Unit is able to clear chicane at 28 mph





**Critical entry to neighborhood. Streets are too narrow for rare event.**



Bus breaks down, emergency call comes in.  
Only one way in

Gainesville, Florida

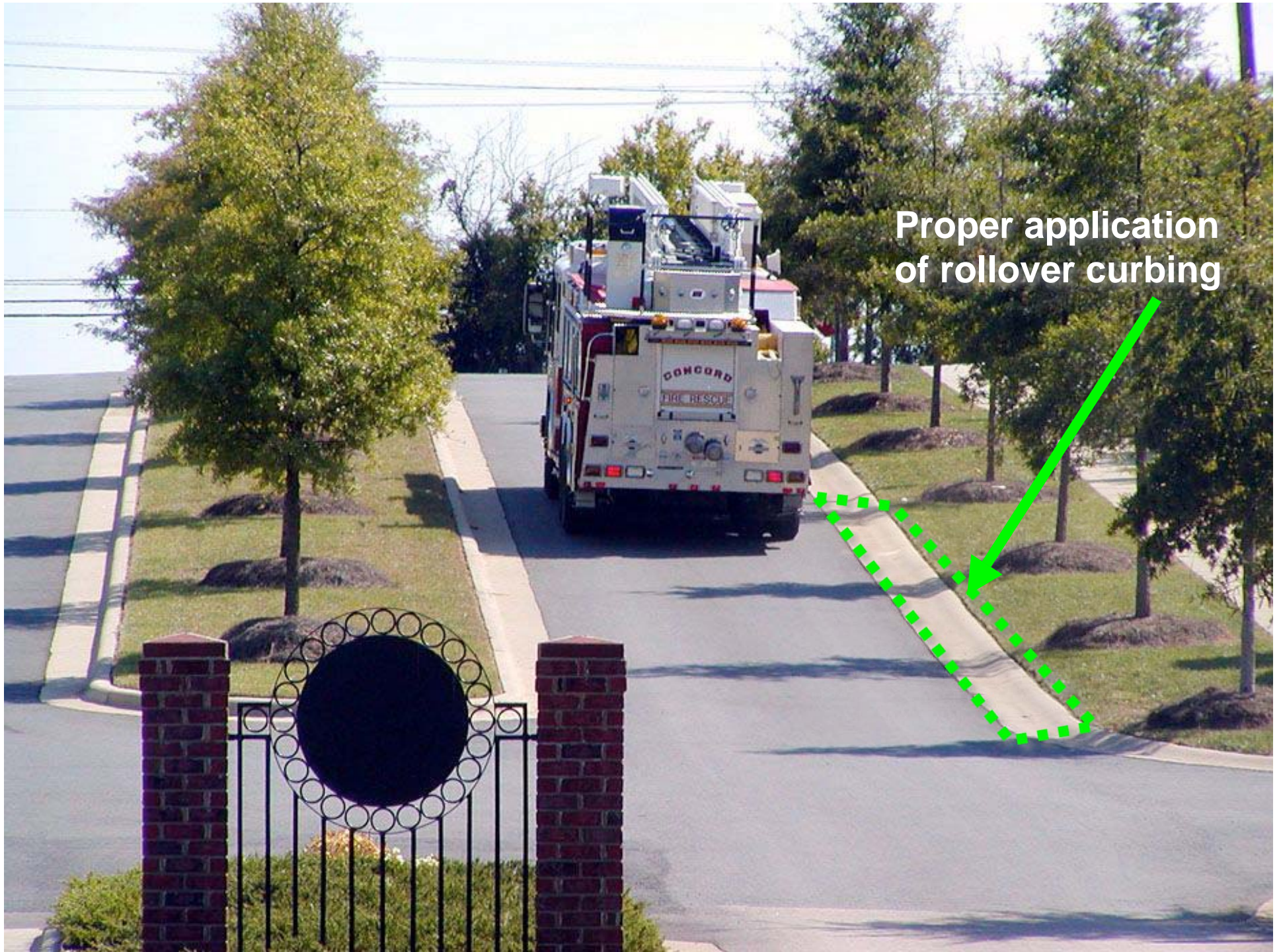




Two micron clearance!!!

Gainesville, Florida





Proper application  
of rollover curbing



Motorist parks in Tee intersection blocks large equipment from entry



Solution?

Curb extensions

Two-Step curbing



Gainesville, Florida









Charlottesville, Virginia



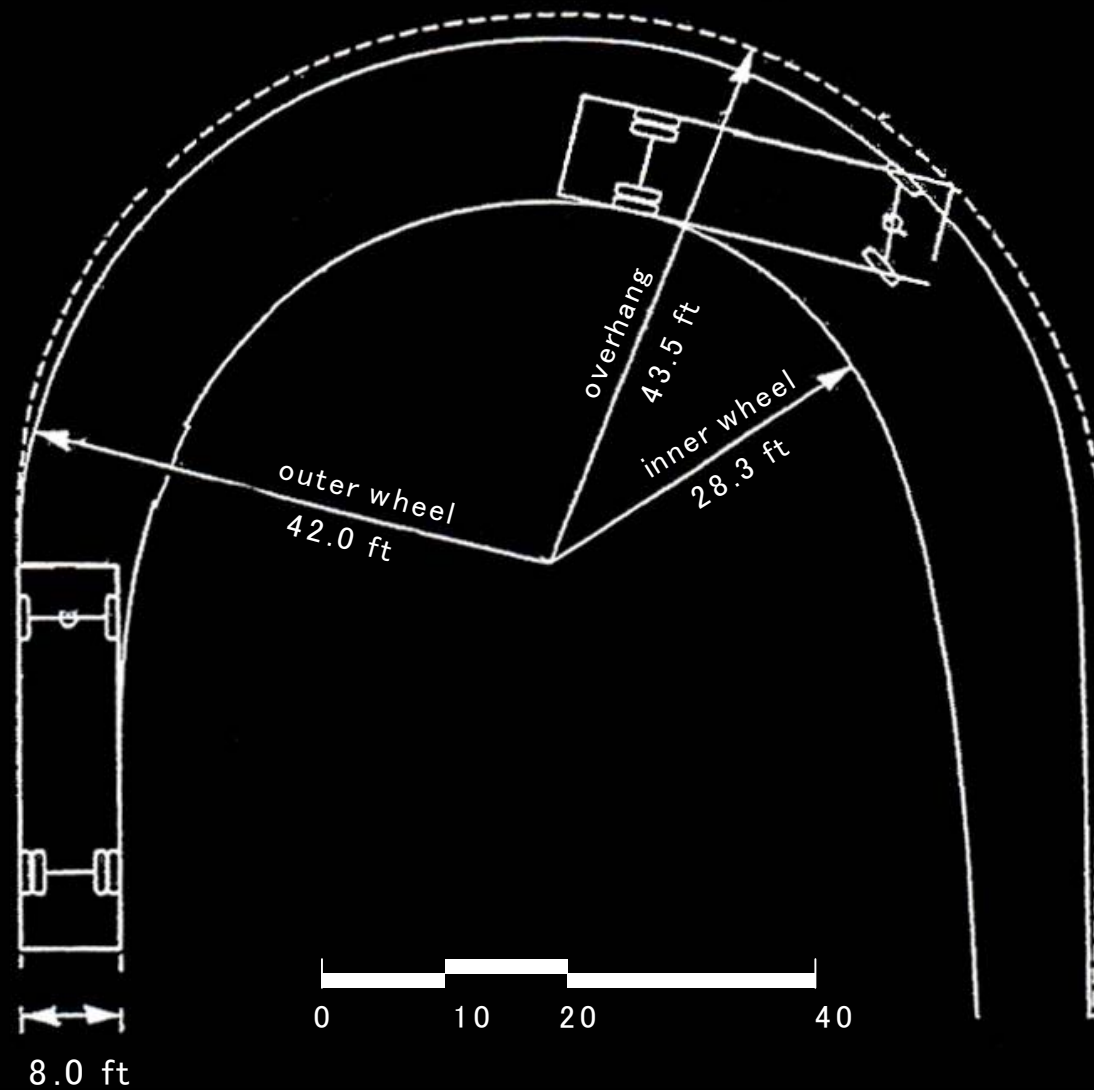
Healthy street system provide quick, efficient, uncluttered travel ways and response times on major routes leading up to local street system





## Single Unit ("SU") Truck Turning Radius

Reframing Key Transportation Conventions  
DESIGN TRAFFIC - Vehicle Types







Plan must  
provide  
adequate  
turning radii,  
  
not excessive  
width

Departure road 20.0 feet wide, Entry road 20.0  
feet wide turning radius of vehicle: WB-40

AASHTO and other national standards permit  
designers to use full roadway receiving radius  
for oversize vehicles

A fine grained road system with well  
distributed traffic allows narrow entries

### “Design Vehicle”

Ordinary vehicle using road section

### “Controlling Vehicle”

Extra-Ordinary vehicle using  
road section can be  
accommodated through  
other solutions at site.









**What planners, developers and people often fear**