



Neighborhood Traffic Calming Program

Redmond Citizens Academy

May 12, 2011

Jeff Palmer, NTCP Coordinator



I. PROGRAM PURPOSE, OVERVIEW & BUDGET



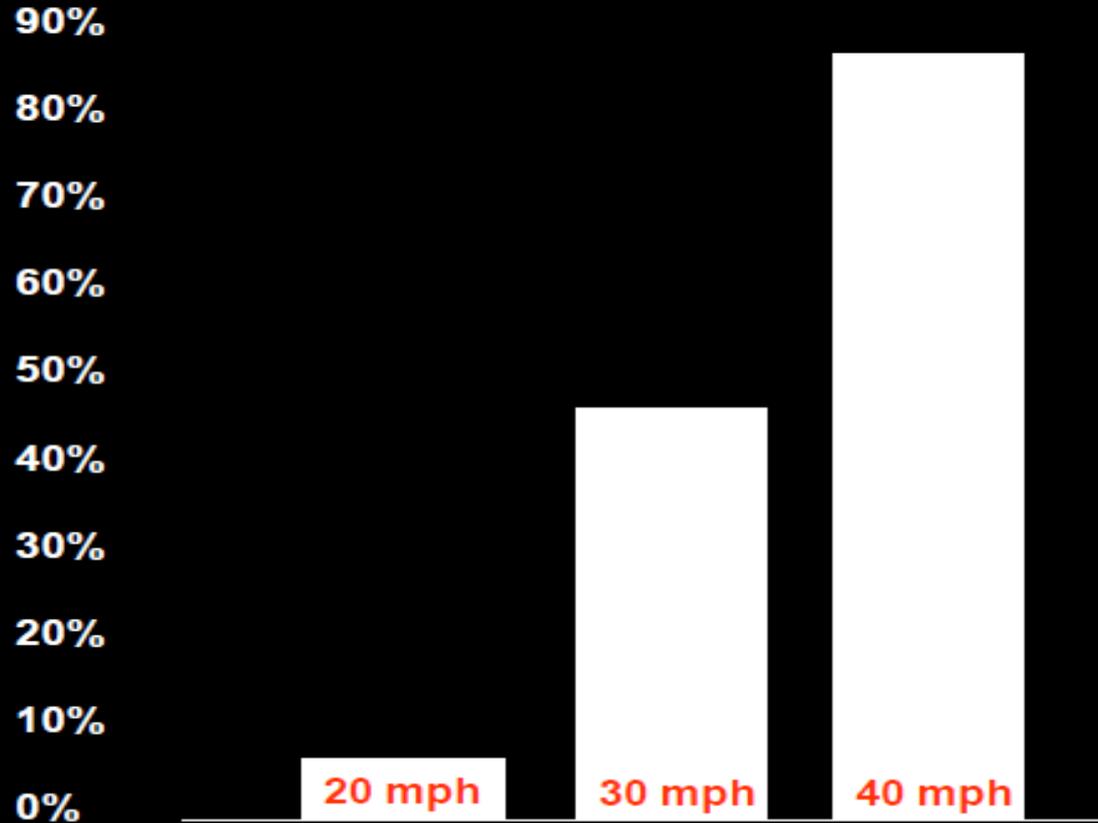
- Mitigation program – part of Redmond’s commitment to the safety and livability of neighborhoods.

Year	Population	Employment
1990 baseline	35,800	31,101
2010 observed	54,144	90,704
2022 planned	72,000	118,000

- 2009 system estimate: 216,000,000 person trips served.

Importance of Reducing Speed

A pedestrian's chance of death if hit by a motor vehicle



Killing Speed and Saving Lives, UK Department of Transportation

National average (in 2005 dollars)



Type	Cost of one collision
Property damage	\$5,000
Injury	\$68,170
Fatality	\$3,246,192

Source injury and fatality costs: *Crashes vs. Congestion – What's the Cost to Society?* March 3, 2008 by Cambridge Systematics, Inc.

2010 Redmond Collisions

- PDO 604 (77%)
- Injury 185 (23%) 207 injured
- Fatal 0
- Total: 789 (100%) ped/bike 22 (3%)

Estimated societal cost

\$15,631,450

- NTC Program CIP budget: \$150,000 per year 2011, 2012



How?

Education, Enforcement & Engineering

Phase 1

- Investigate and evaluate

Appropriate treatments may include...

- Education, signs, markings, radar speed trailer, targeted enforcement.

Brush Trim



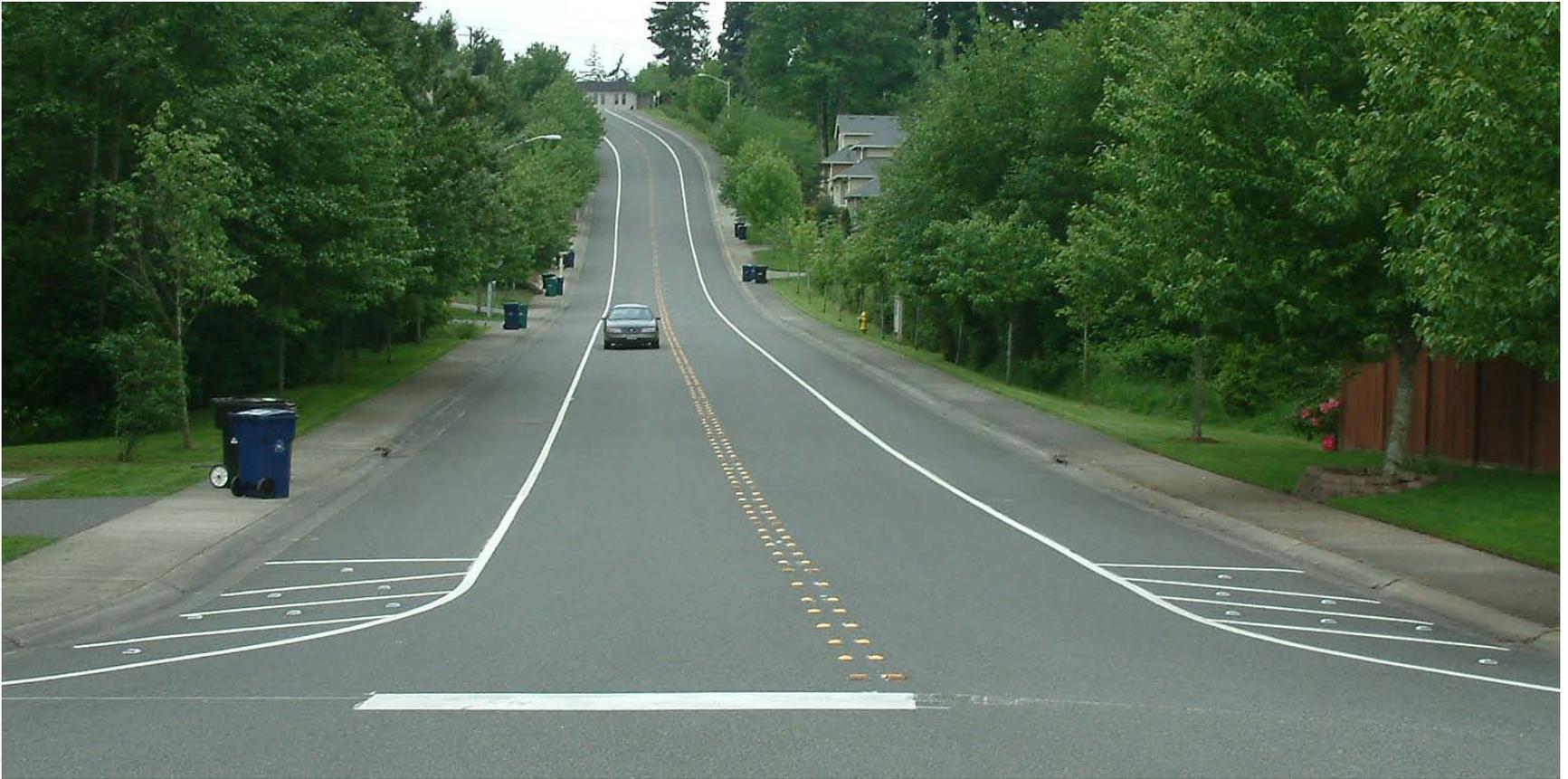
Signs



Markings



Visual Narrowing



Enforcement



Phase 2

- **Speed criteria: 85% of drivers exceeding the posted speed limit by 10+ MPH**
- **Volume criteria: cut-through volume > 20% of the total daily volume.**

Appropriate treatments may include...

- Speed humps, raised intersections & crosswalks, chicanes, fixed site speed radar & beacons, curb extensions & chokers, raised medians, traffic circles & roundabouts, etc.

Speed Hump



Speed Cushion



Raised Crossing



Curb Bulb



Raised Crosswalk



Median



Median / Entry



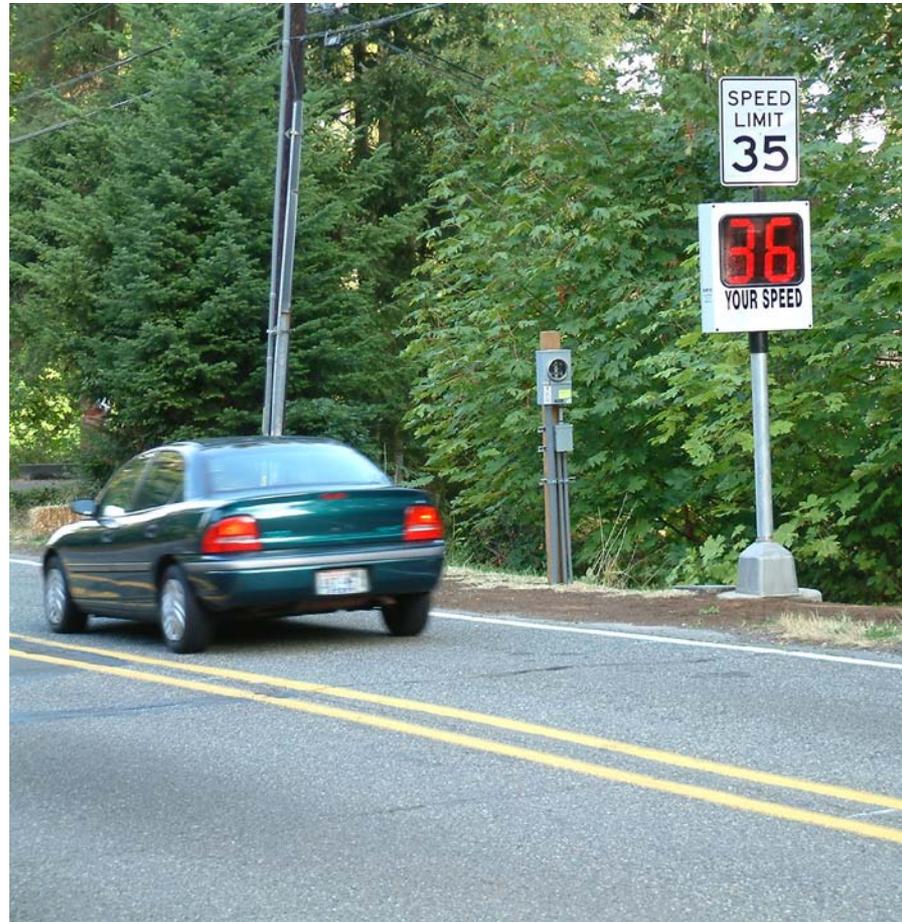
Median / Entry



Combined...



Speed Radar



Traffic Circle

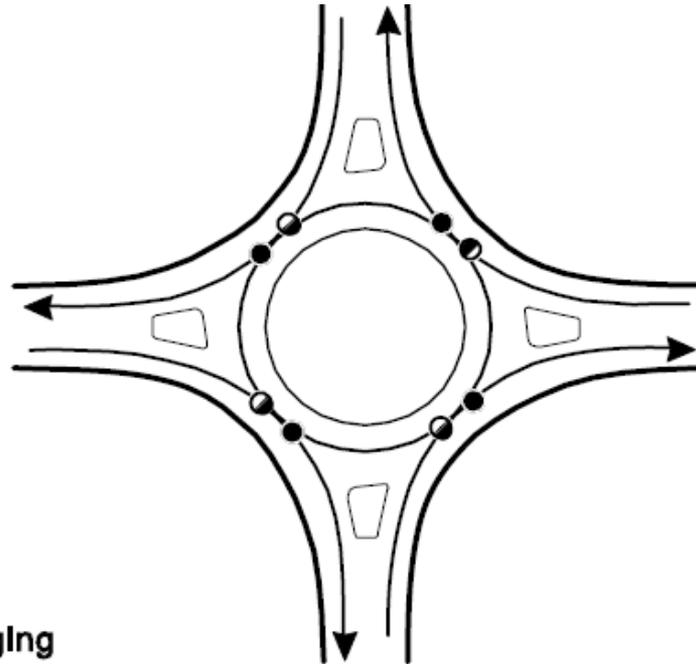
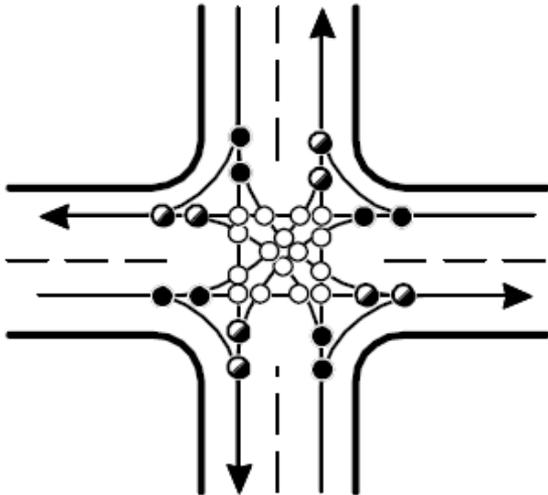


Roundabout









- Diverging
- Merging
- Crossing

Vehicle Conflict Point
Comparison for Intersections
with Single-Lane Approaches



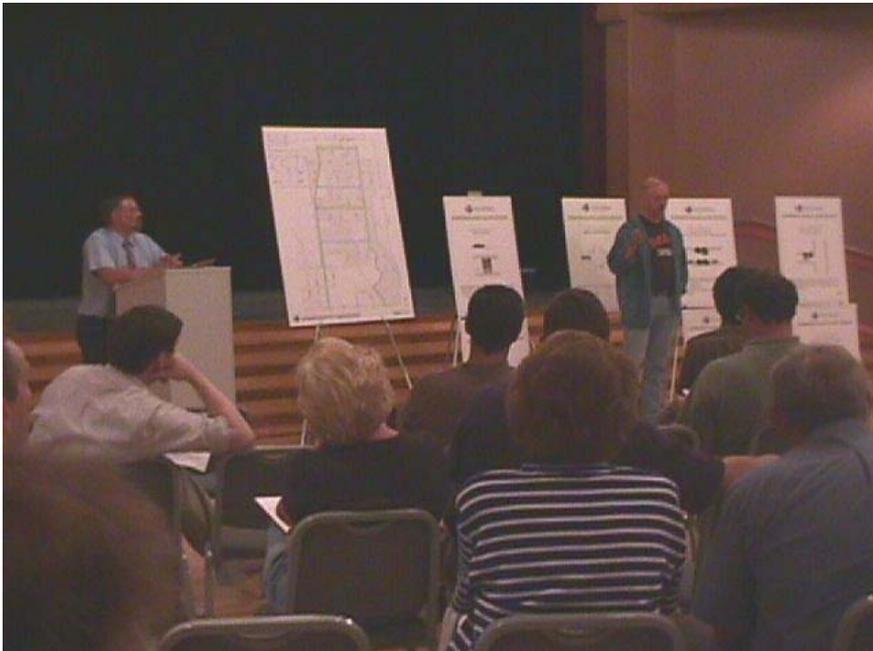
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Crossing Safety Improvement



Phase 2 - Public Process

- Neighborhood meetings or surveys

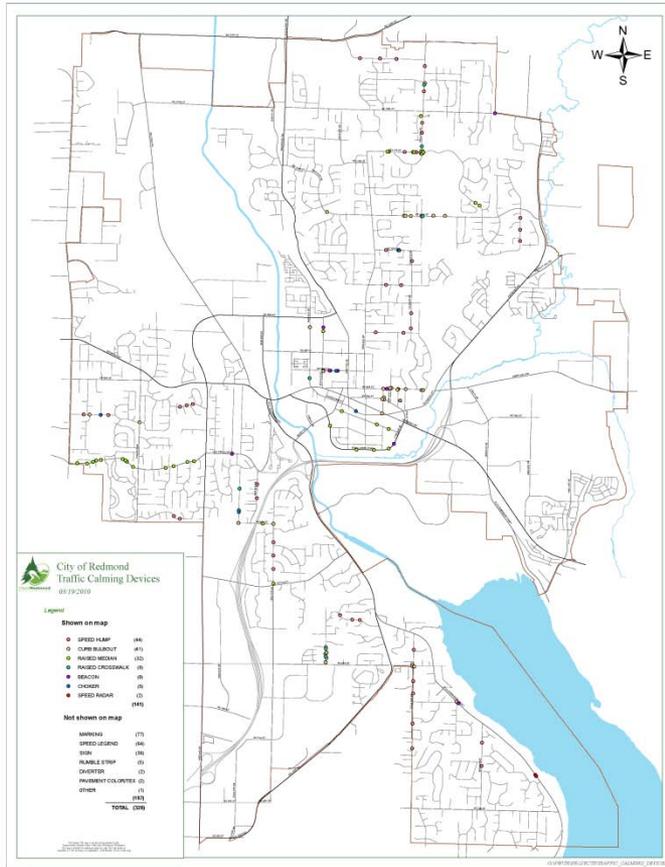


Developers were required to install...



- Raised school crosswalk with curb bulb at 120th
- Three speed cushions on 122nd

Devices & Treatments



Speed Hump	44	Marking	77
Curb Bulb	41	Speed Legend	64
Median	32	Sign	36
Raised Crosswalk	9	Rumble Strip	5
Beacon	8	Diverter	2
Choker	5	Pavement color, texture, pattern	2
Radar	2	Roundabout, other treatments	2
Sub-total	14	Sub-total	188
	1		
		Total	329

To Do:

REQUESTS and THE FUTURE

- Approximately 92 active requests. Each request can equal one or more people.



BEYOND TRAFFIC CALMING



- Transportation Grant Program
- Title II Americans with Disabilities Act ramp requests
- Consult on traffic calming related to private development, school re-development, CIP projects
- Traffic safety issues
- Etc.

Liaison to: Police, Fire, and the LWSD



WWW...

<http://www.redmond.gov/cms/one.aspx?portalId=169&pageId=2807>

Redmond.gov

Transportation

Resources

Neighborhood Traffic Calming



THANK YOU

Neighborhood Traffic Calming Program



Jeff Palmer, NTCP Coordinator
City of Redmond
P.O. Box 9710
Redmond, WA 98073-9710
jpalmer@redmond.gov
425-556-2857