

2017

Neighborhood Traffic Calming Programs



Arcadia Neighborhood



Scott Logan
Traffic Engineering Supervisor

City of Phoenix Street
Transportation Department
Traffic Services Division





| Meeting Agenda

- Current traffic conditions
 - Neighborhood streets
 - Crash history
 - Traffic Volume
- Traffic calming programs
 - Speed Hump/Speed Cushion
 - Neighborhood Traffic Management
- Next steps

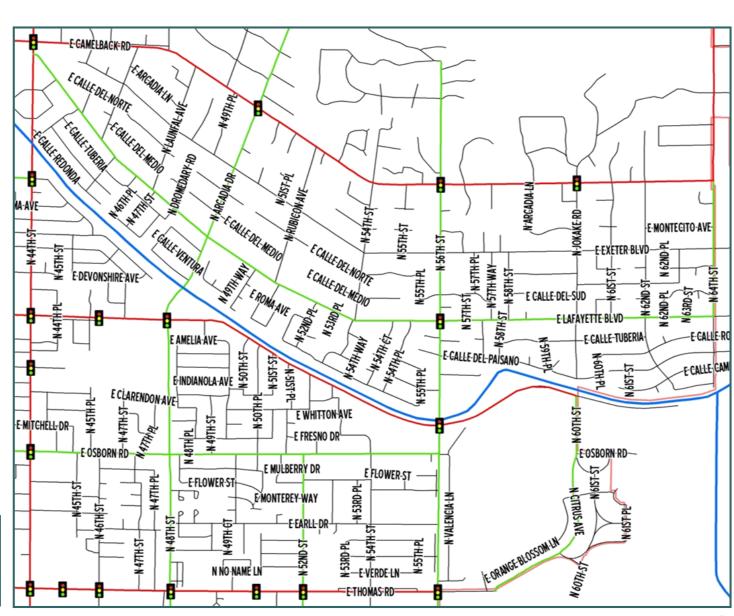
Neighborhood Streets

Arterial Street

Collector Street

Local Street

Greater Neighborhood



Crash History 2011 - 2015

2011-2015 Citywide Average 24,131 Crashes/yr

Crash Statistics
145 Reported Crashes
29 Crashes per Year
Crash Severity:

1 Fatal

3 Serious Injury

11 Minor Injury

33 Possible Injury

97 No Injury

56 SINGLE VEHICLE

38 ANGLE

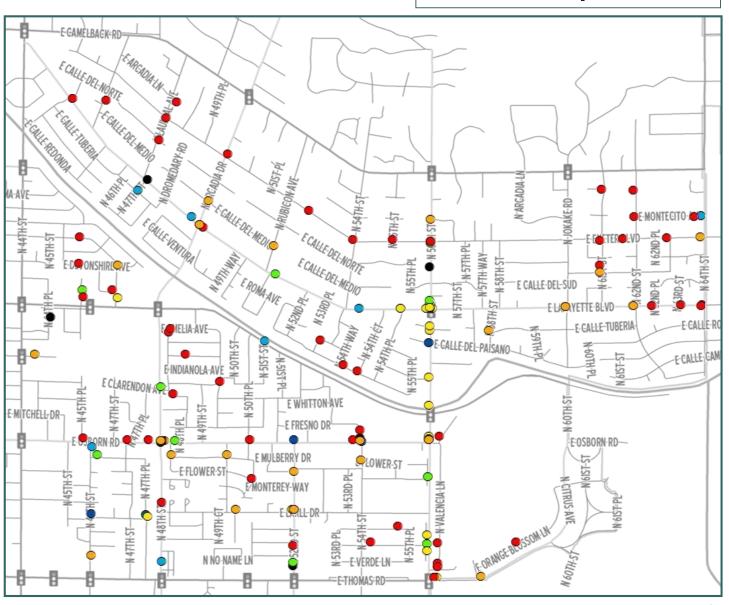
18 REAR END

10 SIDESWIPE

9 PED/BIKE

8 LEFT TURN

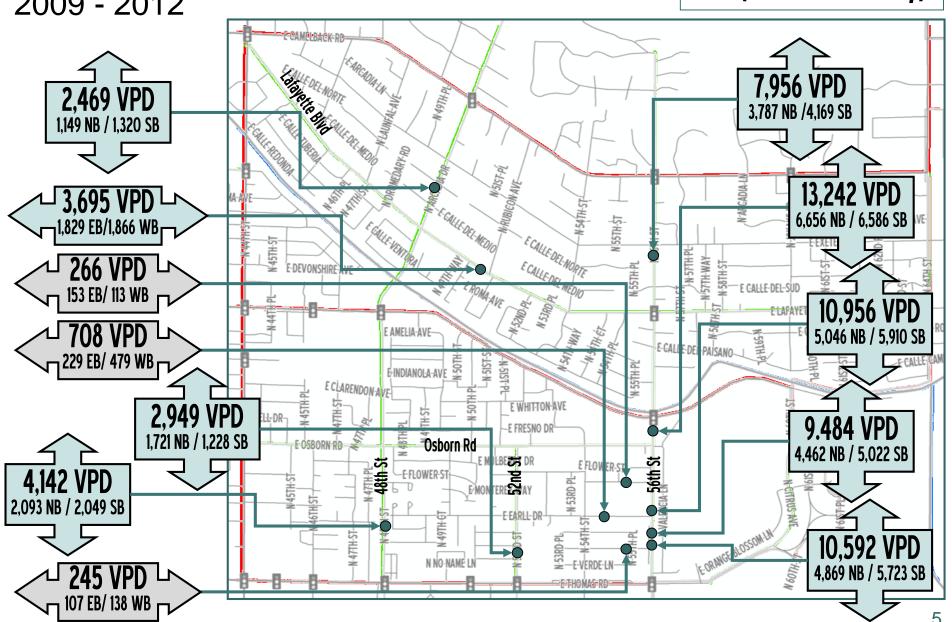
6 OTHER



Traffic Counts

2009 - 2012

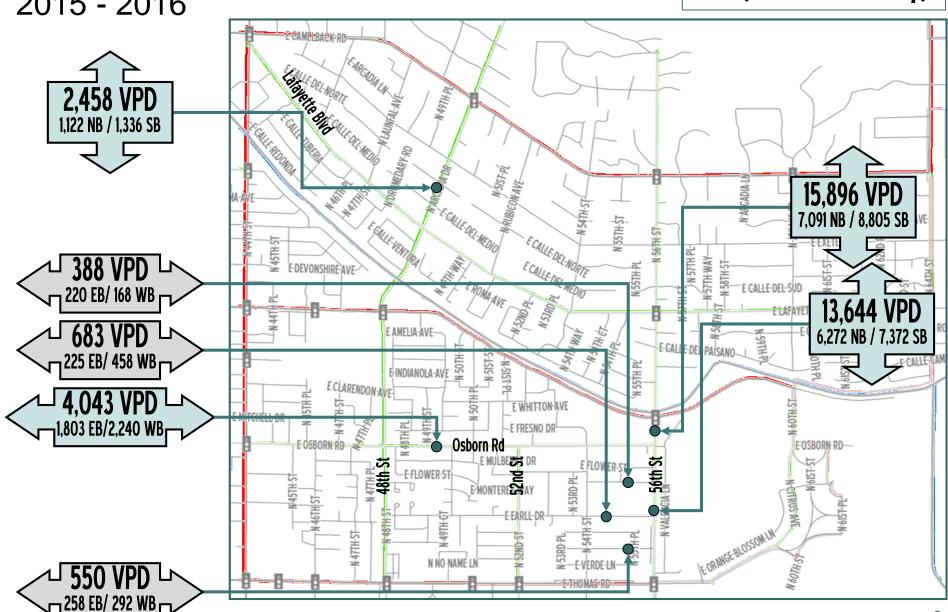
Traffic Volume VPD (Vehicles Per Day)

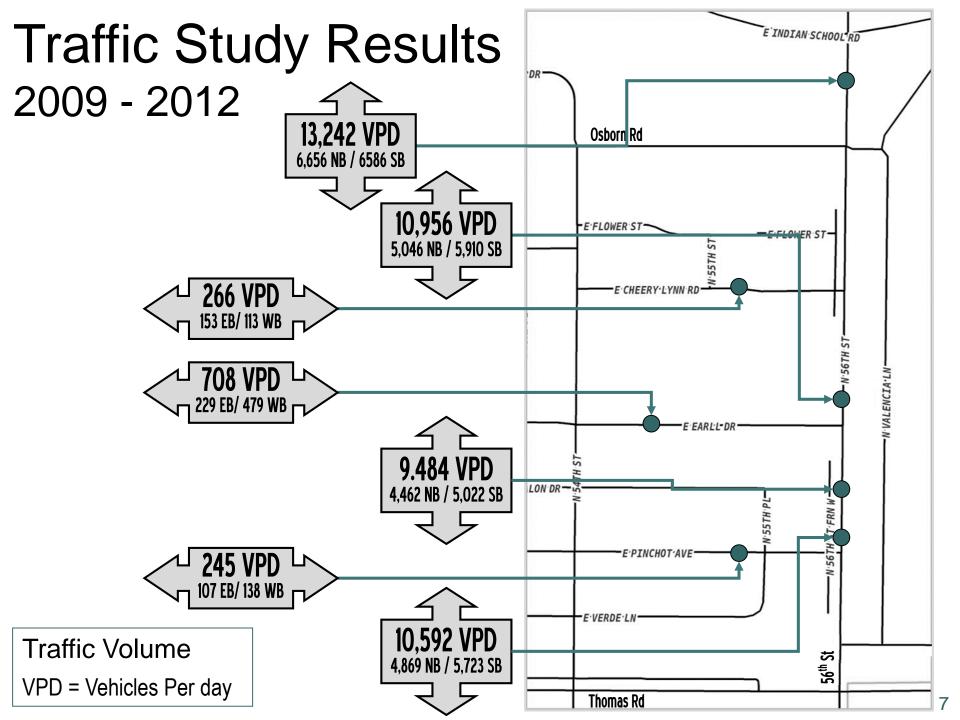


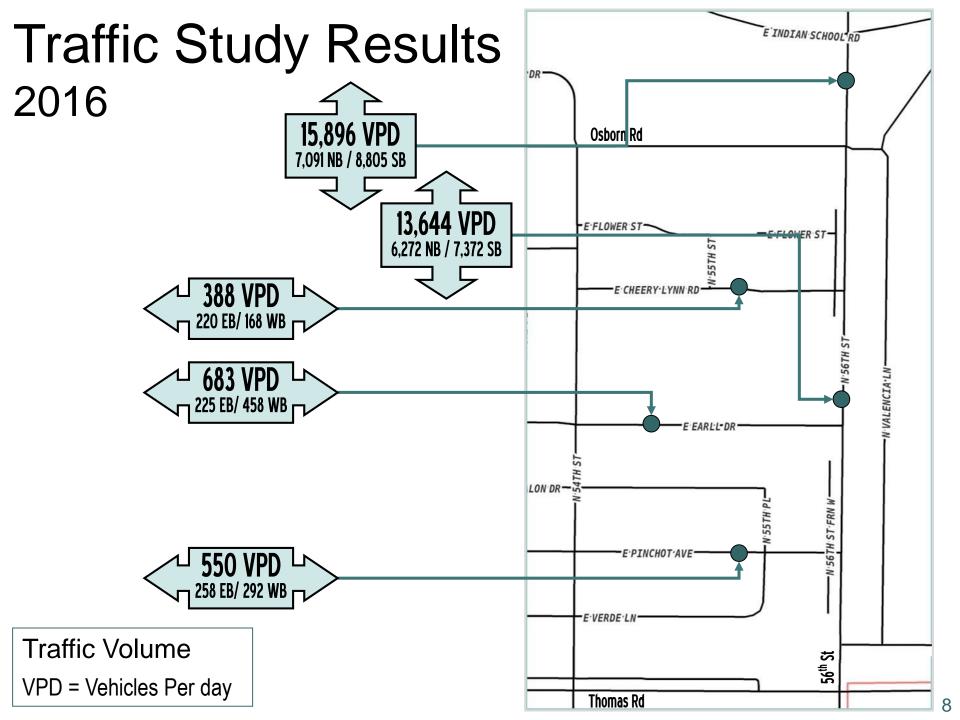
Traffic Counts

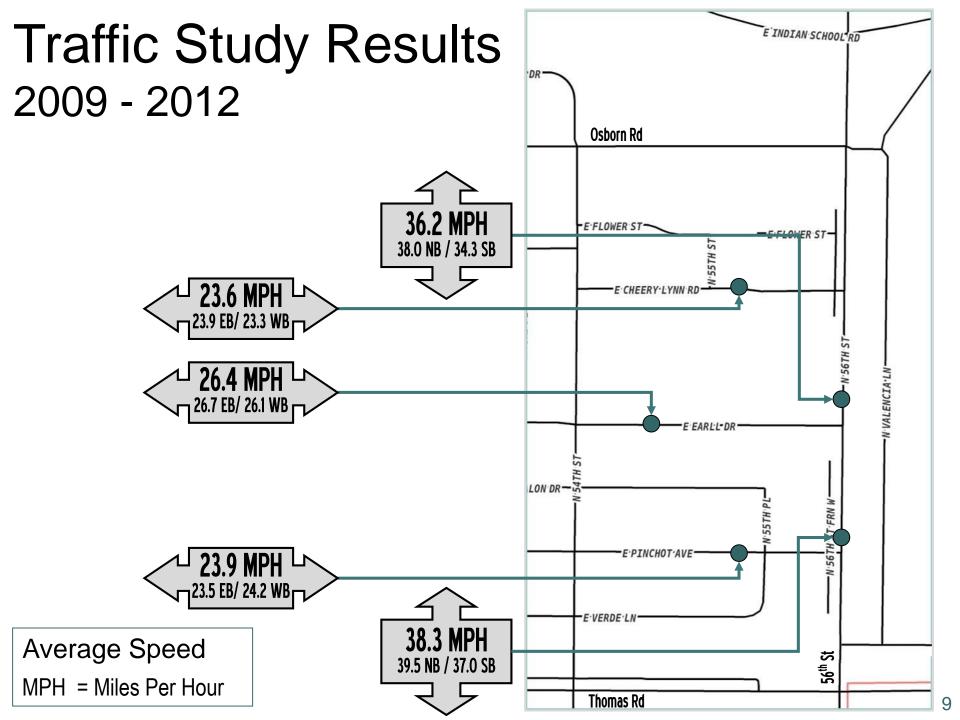
2015 - 2016

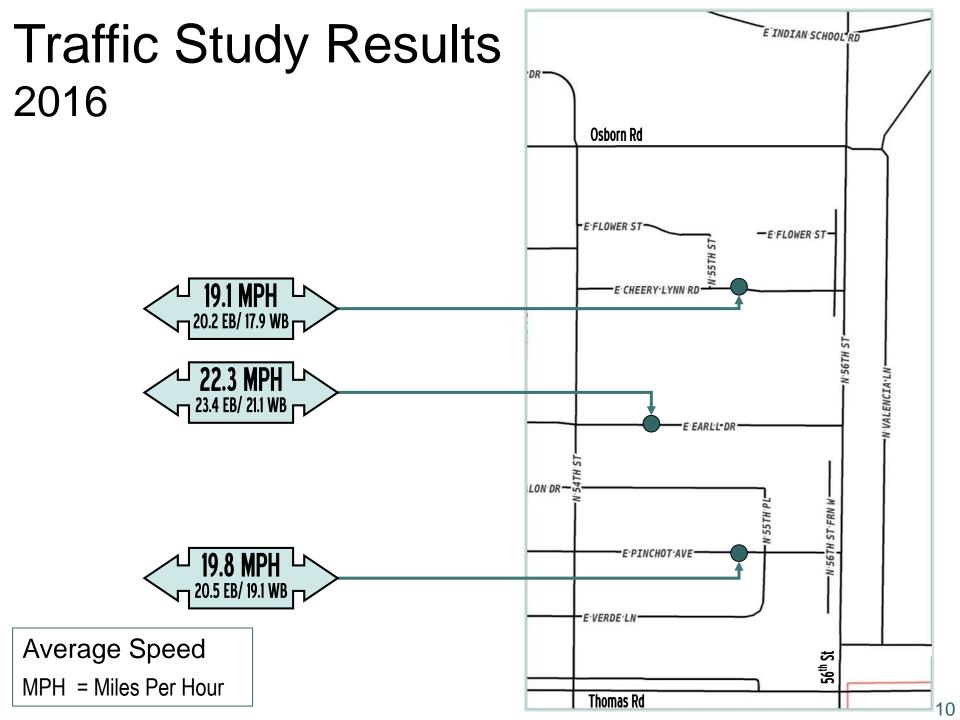
Traffic Volume VPD (Vehicles Per Day)

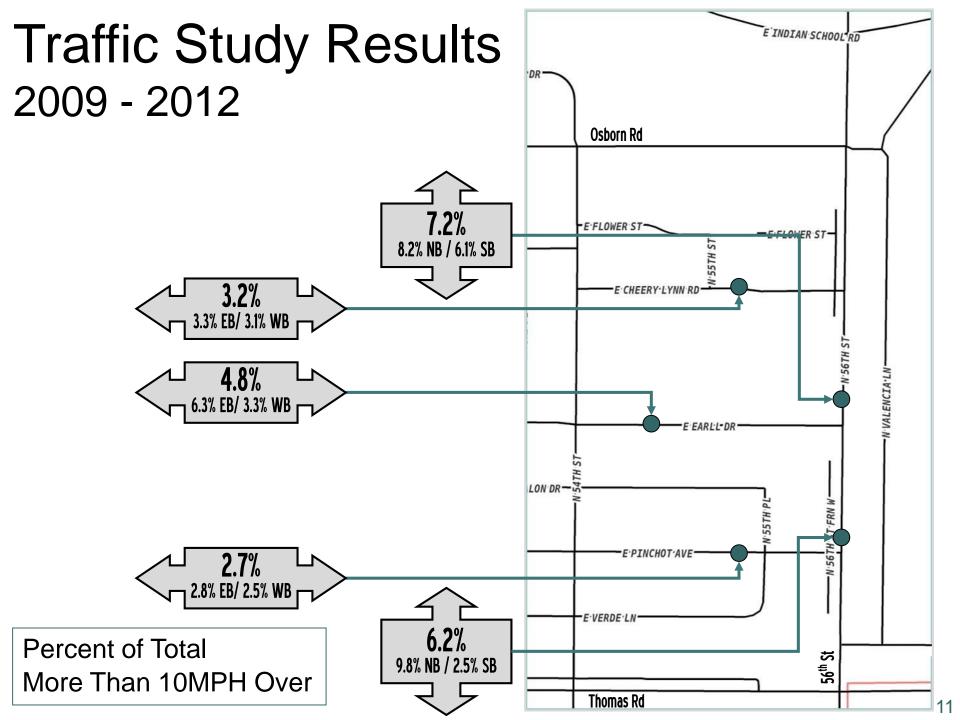


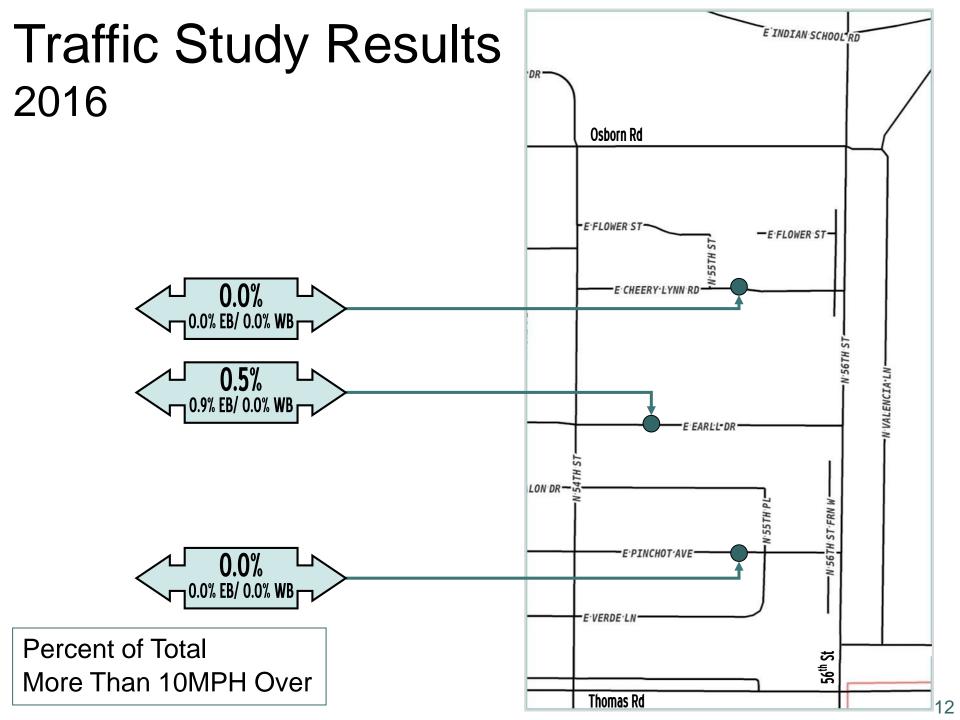












Traffic Calming Programs

- Speed Hump/Cushion Programs
 - Costs
 - Petitioning requirements
- Other Traffic Calming Programs
 - Neighborhood Traffic Management Program
 - Striping changes
 - Radar Trailer Program

All Neighborhood Traffic Calming is Resident Driven

• • | Stop Signs

Stop signs are traffic control devices, not traffic calming devices

STOP control is justified when...



- Crash problems exist
- Driver expectation of traffic control exists

Improper use of stop signs can make intersection more dangerous



• Cushions vs. Humps

Speed humps:

- Run continuously across street
- Local streets only
- Slows all vehicles

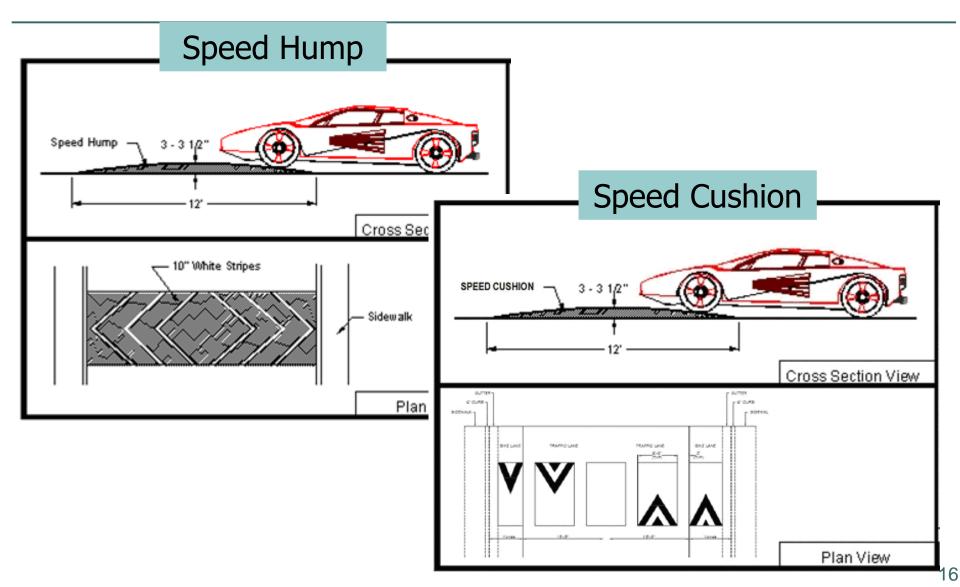
Speed Cushions:

- Runs continuously but with grooves cut for fire trucks
- Collector streets only
- Slow all vehicles except fire trucks





Hump and Cushion Designs



Speed Hump Program Requirements – Costs

Speed humps cost the City \$2,200 each Residents may need to pay for some of installation

Average Speed on Street	Cost to Resident for Speed Humps
25 mph or Less	\$1,200/hump
26-29 mph	\$250/hump
30 mph or higher	\$100/hump

Once installed City will maintain

Speed Cushion Program Requirements – Costs

Speed Cushions cost the City \$2,800 each Residents may need to pay for some or all of installation

Average Speed on Street	Cost to Resident for Speed Cushions
Speed Limit or Less	\$2,800/cushion
1 to 4 mph Above Limit	\$500/cushion
5 mph or more Above Limit	\$200/cushion

Once installed City will maintain

Petitioning Requirements

Petition boundary:

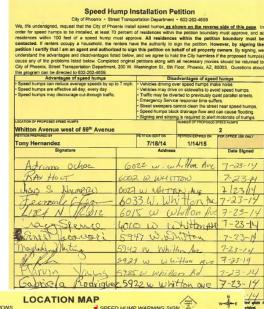
Speed Humps – 20-30 homes Speed Cushions – 50-60 homes

Consensus:

Super Majority Approval:

100% within 100 feet

70% of entire boundary



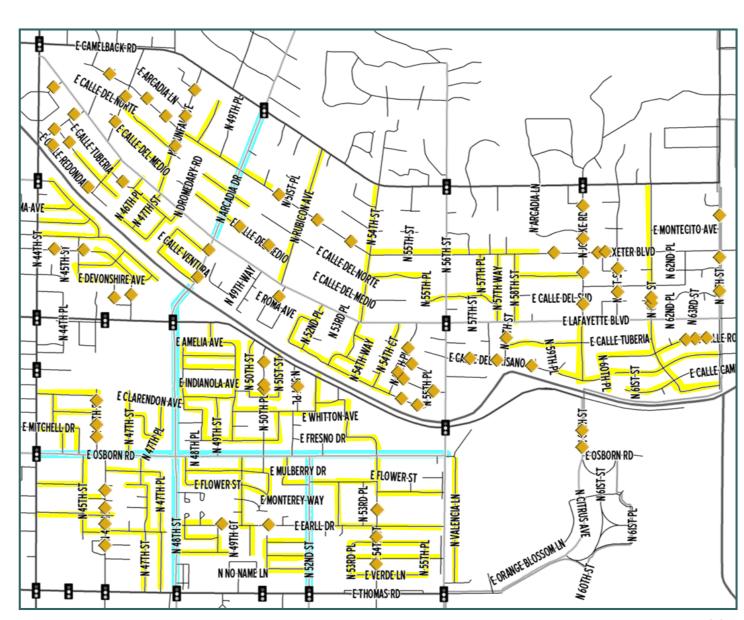


Speed Hump Eligibility

Eligible for Speed Humps

Eligible for Speed Cushions





Neighborhood Traffic Management

Designed to deter cut-through traffic on **LOCAL** streets Criteria for Installation:

Volume: 1000 veh/day or 100 veh/hr

Speed (85-pctl): Exceeds 25 mph



Striping Changes

Defines travel lanes and separates road users Includes bike lanes, parking lanes, turn lanes, etc.

Optically narrows travel lane and improves visibility

May reduce crashes
May slow traffic





Radar Speed Trailer Program

Intended to slow traffic – "Shame" drivers
Deployed for one week interval, once per month
Installed on any street with permission of resident





Traffic Calming Program

- √ Contact from Neighborhood
- Create Neighborhood Traffic Committee
- Conduct traffic study Speed and Volume
- Devise Traffic Control Plan
- Obtain Neighborhood Consensus
- Implement and Test Solutions

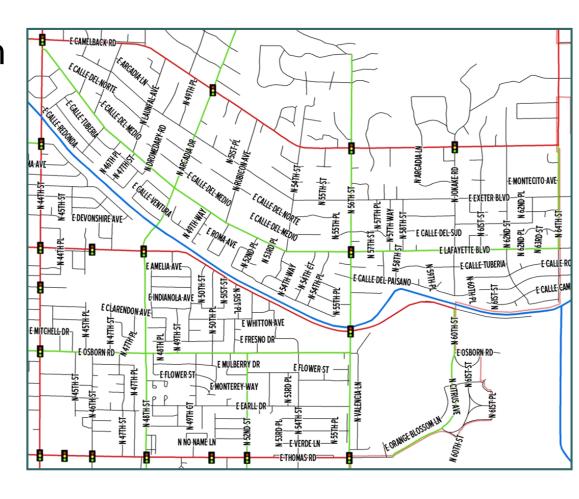
Create Traffic Committee

o Commitment:

- 5-8 residents with city staff
- 2-3 meetings

Responsibility

- Where to count,
- What devices,
- Petition responsibilities



• • Questions?

City Contacts:

Scott Logan 602-495-7065 scott.logan@phoenix.gov

Traffic Complaint Hotline: 602-534-SPEED (7733)