Part 3: TRAFFIC CALMING DEVICES: Inventory of Available Tools and Recommendations

The following pages set out an inventory of traffic control devices, a description of how they function, their impact on speed and volume, how they contribute to or detract from the quality of life, the places they can be deployed, their impact on emergency services, and relative expense to install and maintain.

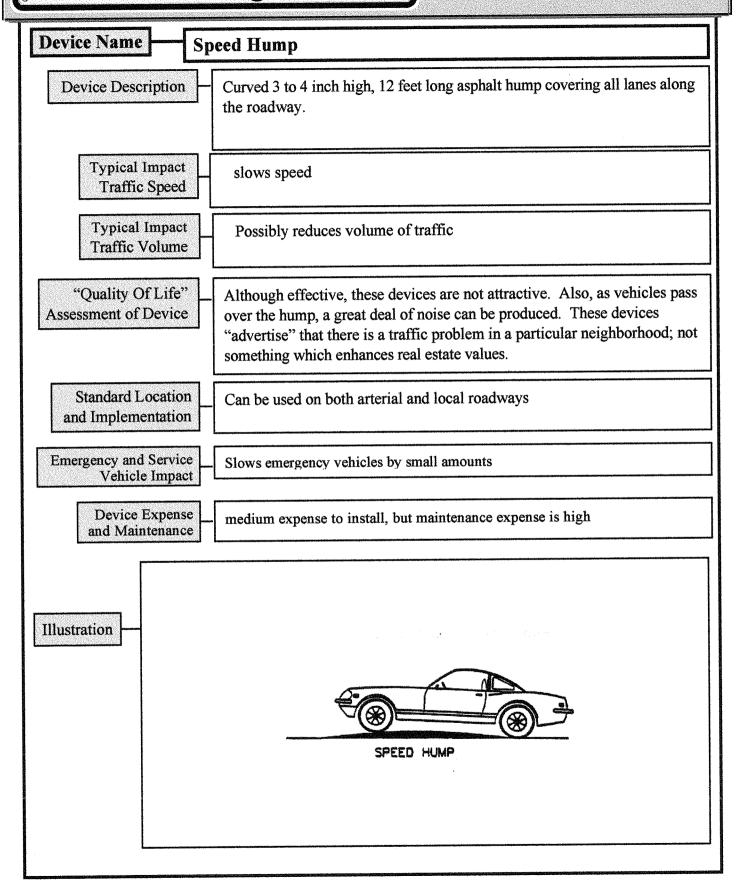
The Task Force recommends that all the devices be carried in the inventory of tools available to implement the Leesburg Residential Traffic Management Plan presented in this report.

Device Name	Smart Trailer (sometimes called "Silent Policeman")
Device Description	Radar measured traffic speeds displayed to drivers from an unmanned device
Typical Impact Traffic Speed	slows speed while trailer is in use
Typical Impact Traffic Volume	
"Quality Of Life" Assessment of Device	
Standard Location and Implementation	Michais, Concours and Boom survey
Emergency and Service Vehicle Impac	
Device Expense and Maintenance	initial investment high, maintenance low, but manpower for deployment high
Illustration	

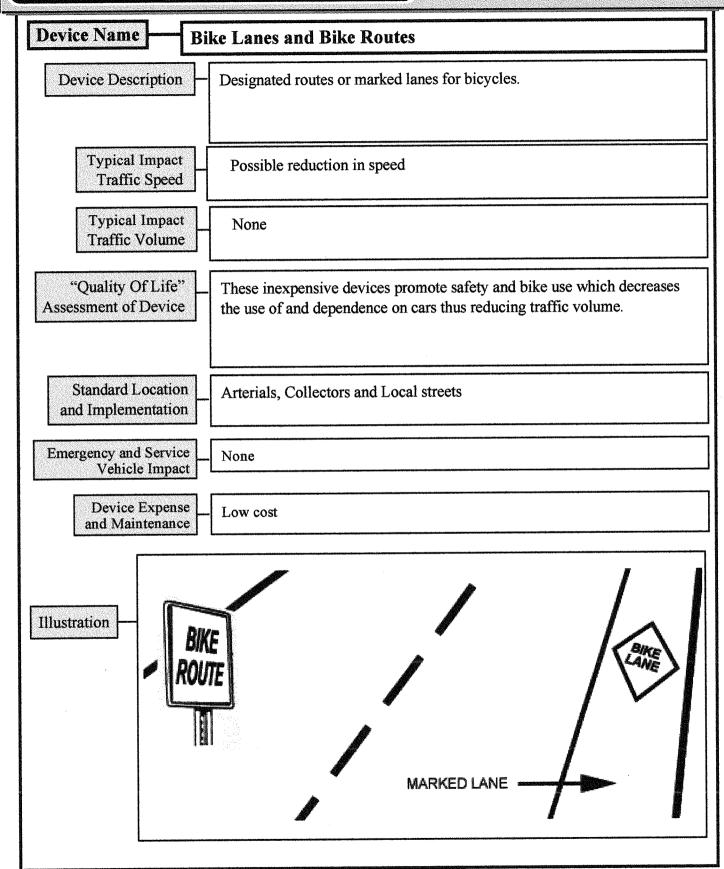
Device Name S	tricter Police Enforcement
Device Description	Strong speed limit enforcement.
Typical Impact Traffic Speed	Reduces speed
Typical Impact Traffic Volume	none
"Quality Of Life" Assessment of Device	Combats speeding, but must be periodically implemented to be effective in the long term
Standard Location and Implementation	Arterials, Collectors and Local streets
Emergency and Service Vehicle Impact	none
Device Expense and Maintenance	Manpower for deployment is high
Illustration	

Device Name Reduced Speed Limits	
Device Description	Reduction in the speed limit on a targeted section of a street
Typical Impact Traffic Speed	slows traffic
Typical Impact Traffic Volume	possibly reduces traffic volume
"Quality Of Life" Assessment of Device	Slower speed limits begin to move the overall speed of vehicles down producing a better QOL, including enhanced safety. This, along with the low cost of implementing slower speed limits, fits well with the goals set forth by the committee.
Standard Location and Implementation	Arterials, Collectors and Local streets
Emergency and Service Vehicle Impact	little effect
Device Expense and Maintenance	low initial cost and low maintenance
Illustration	SPEED LIMIT 15

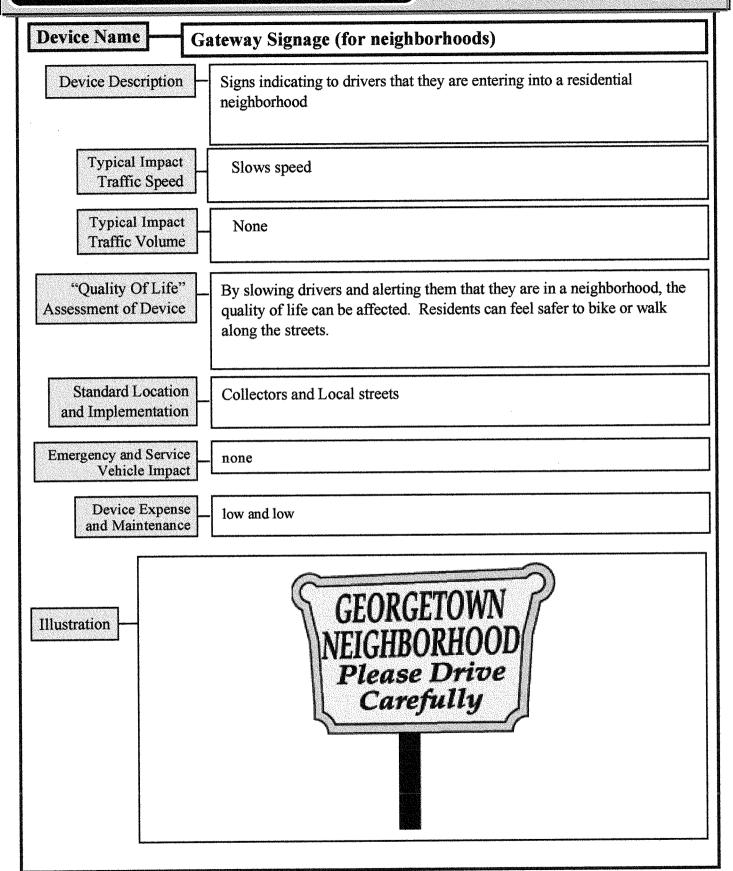
Device Name	Stop Signs
Device Description	Additional stop signs, such as 4-way-stop intersections
Typical Impact Traffic Speed	Dood loadod iii dida di bigii, didi aii bhada laasaatti is lass
Typical Impact Traffic Volume	1.000000011111 / 01000110
"Quality Of Life" Assessment of Device	978 1 1
Standard Location and Implementation	CI On mimor Concetors and Books servess
Emergency and Service Vehicle Impac	
Device Expense and Maintenance	
Illustration	



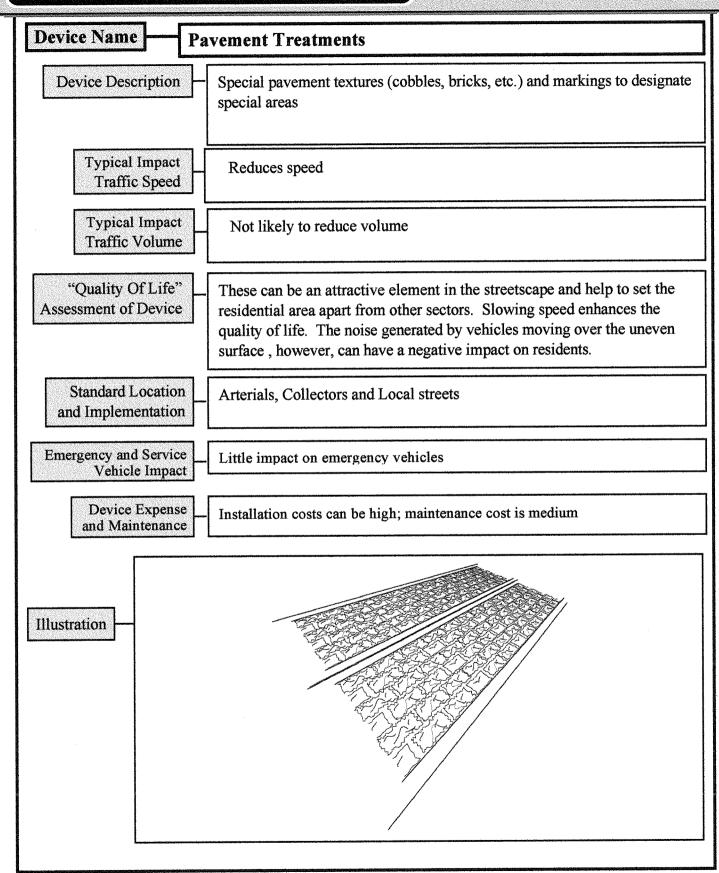
Device Name F	umble Strips
Device Description	low bumps across road make noise when driven over
Typical Impact Traffic Speed	Some reductions in speed
Typical Impact Traffic Volume	_ None
"Quality Of Life" Assessment of Device	The noise that vehicles make when passing over these strips makes them a poor choice for a residential street. This device is much more appropriate for use on arterials
Standard Location and Implementation	More appropriate for arterials
Emergency and Service Vehicle Impact	None
Device Expense and Maintenance	Low installation and maintenance
Illustration	PARKING PAVEMENT MARKING/ RUMBLE STRIPS



Device Name C	On Street Parking
Device Description	Permitting parking on one or two sides of a residential street in order to "narrow" the feel of the street.
Typical Impact Traffic Speed	Slows speed
Typical Impact Traffic Volume	Possible reduction in volume
"Quality Of Life" Assessment of Device	Slower speeds and less traffic can improve the quality of life of the neighborhood.
Standard Location and Implementation	Minor Collectors and Local streets
Emergency and Service Vehicle Impact	Minor impact
Device Expense and Maintenance	Low cost for implementation and maintenance
Illustration	AVEL LANE FOR VEHICLES ————————————————————————————————————
	ARKED VEHICLE PARKED VEHICLE

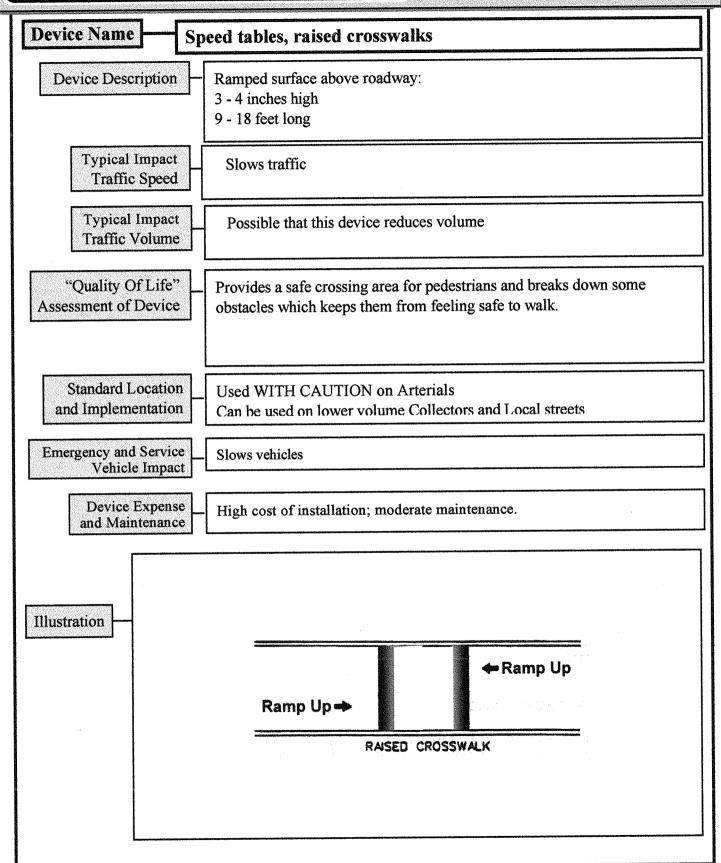


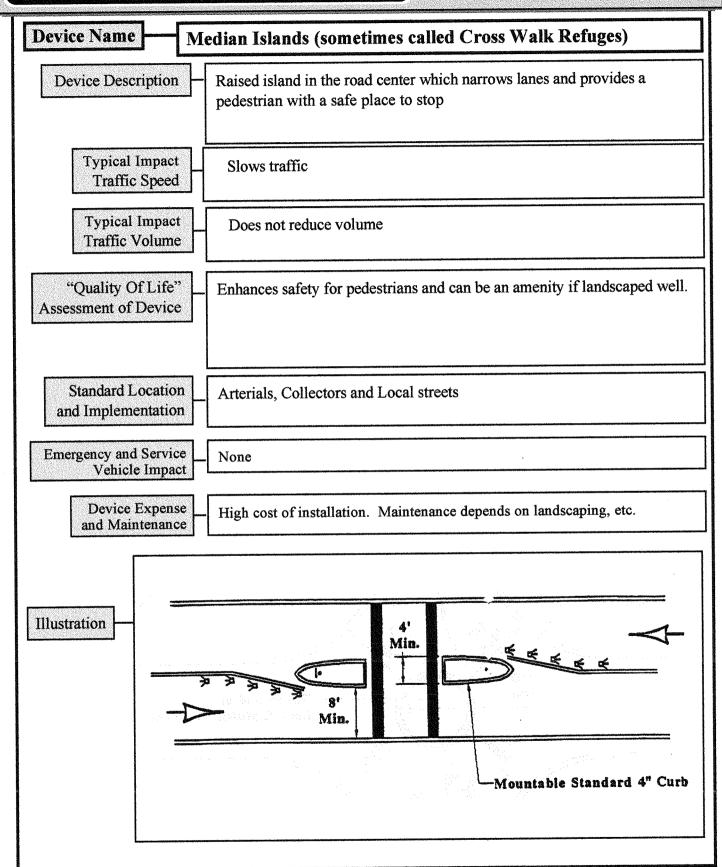
Device Name Landscaping or Streetscaping Plantings which serve to visually narrow the roadway and give drivers the **Device Description** sense that they are traveling through or into a residential area. **Typical Impact** Slows traffic Traffic Speed Typical Impact Possible reduction in traffic volumes Traffic Volume "Quality Of Life" Helps with the transition from one commercial to residential and alerts Assessment of Device drivers that they are in a slower speed limit area. Can also increase the value of the homes in the area. **Standard Location** Arterials, Collectors and Local streets and Implementation Emergency and Service None Vehicle Impact Device Expense Depends on amount of landscaping. Possible to 'partner' with private groups. and Maintenance Illustration



Device Name Squared Off Corners at Intersections	
Device Description	Instead of rounded or curved, corners are 90 degrees.
Typical Impact Traffic Speed	Slows speed
Typical Impact Traffic Volume	Little to none
"Quality Of Life" Assessment of Device	With slower traffic and shorter distances for people to cover in order to cross the street, pedestrian safety is increased. More people will use vehicles less and walk more when street conditions are molded to make pedestrian travel safe and convenient.
Standard Location and Implementation	Comotons and Education
Emergency and Service Vehicle Impact	
Device Expense and Maintenance	
Illustration	Squared Corners Produce SLOWER TRAFFIC Rounded Corners Encourage FASTER MOVING TRAFFIC

Device Name "Road Diets"		
Device Desc	Reducing the number of traffic lanes.	
Typical Traffic	Impact Slows traffic.	
Typical Traffic \	Transfer Tra	
"Quality O Assessment of		
Standard L and Impleme	/ Internals and Confector Salves	
Emergency and Vehicle	Service Impact	
Device I and Main	Expense High installation expense; possible moderate to high maintenance.	
Illustration	SIDEWALK This area is a former lane. Now it is a landscaped strip between the sidewalk and the street lane. SINGLE LANE ENTERING THE RESIDENTIAL NEIGHBORHOOD	
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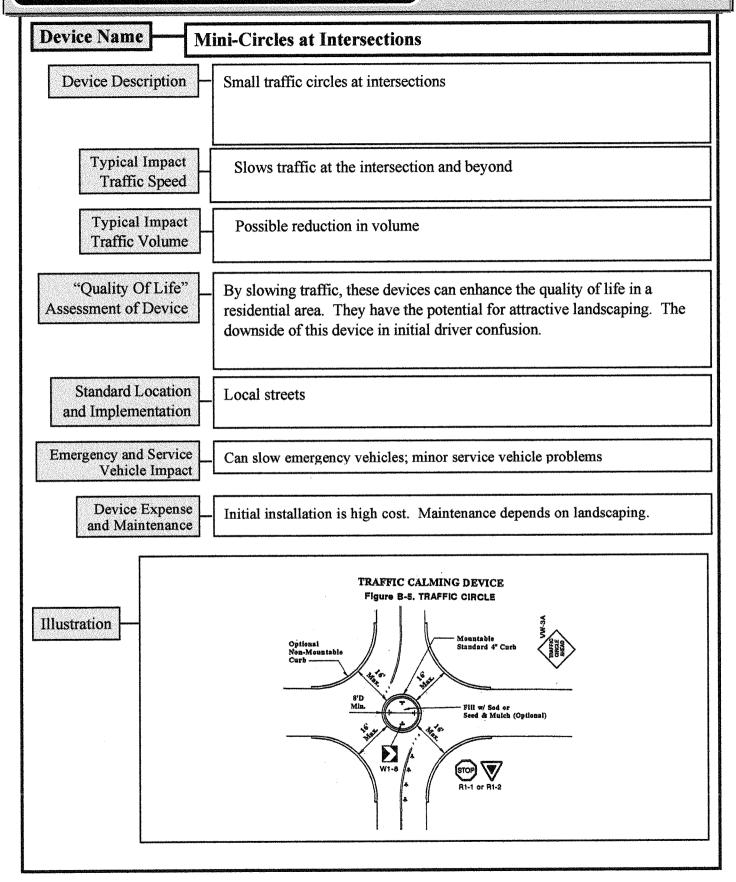
Device Name	Channelization Islands
Device Description	A raised island that forces traffic in a particular direction, (e.g., right-turn-only)
Typical Impact Traffic Speed	Reduces speed of vehicles.
Typical Impact Traffic Volume	None
"Quality Of Life" Assessment of Device	If traffic is slowed by the installation of the device, it will enhance safety and the quality of life of the area residents.
Standard Location and Implementation	Arterials, Collectors and Local streets
Emergency and Service Vehicle Impact	Can slow Emergency Vehicles
Device Expense and Maintenance	High initial installation costs; high maintenance
Illustration	RAISED ISLAND LINEN OMLY TO MAN TO

Device Name	Chokers (or "pinch points")
Device Description	Curb extensions, planters or centerline traffic islands that narrow traffic lanes.
Typical Impact Traffic Speed	slows traffic
Typical Impact Traffic Volume	Not likely to reduce volume
"Quality Of Life" Assessment of Device	Quality of life in a neighborhood can be enhanced with the slower traffic that these devices cause.
Standard Location and Implementation	Arterials, Collectors and Local streets
Emergency and Service Vehicle Impact	None
Device Expense and Maintenance	- Moderate installation costs; moderate maintenance costs
Illustration	PARKING PARKING CHOKER

Device Name C	hicanes
Device Description	Curb bulges or planters (usually 3) on alternating sides of the street. These force motorist to slow down.
Typical Impact Traffic Speed	Reduces speed
Typical Impact Traffic Volume	Possible reduction in volume
"Quality Of Life" Assessment of Device	Although this device slows vehicles, some degree of noise can be generated by vehicles traveling through the chicane.
Standard Location and Implementation	Local one-way streets only
Emergency and Service Vehicle Impact	Slows emergency vehicles
Device Expense and Maintenance	Moderate to high installation expense.
Illustration	CHICANE WELL ASSESSMENT OF THE STATE OF THE

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Traffic Calming Devices.



Device Name	Peak Hour Turn Restrictions
Device Description	Limited or no turning by vehicles at peak hours of traffic.
Typical Impact Traffic Speed	none
Typical Impact Traffic Volume	Reduces volume
"Quality Of Life" Assessment of Device	Diverts inappropriate traffic helping to improve the quality of life in an affected neighborhood
Standard Location and Implementation	111011015, 0011001015 0110 105100111011 50.4405
Emergency and Service Vehicle Impact	
Device Expense and Maintenance	Low expense and maintenance
Illustration —	

Device Name	Semi-diverters
Device Description	Closing off streets to through vehicle traffic at intersections.
Typical Impact Traffic Speed	Reduces speed
Typical Impact Traffic Volume	Possible reduction in traffic volume
"Quality Of Life" Assessment of Device	Can have a positive impact on a neighborhood, however, since the traffic has to go somewhere, other areas will be affected by the closures.
Standard Location and Implementation	Local streets where cut through traffic volumes are extremely high
Emergency and Service Vehicle Impact	Can slow emergency vehicles
Device Expense and Maintenance	Low cost and low maintenance
Illustration	

Device Name Vehicle Restrictions	
Device Description	Limiting vehicle types (trucks)
Typical Impact Traffic Speed	None
Typical Impact Traffic Volume	Reduces volume
"Quality Of Life" Assessment of Device	Diverts inappropriate traffic and improves the quality of life in an affected neighborhood
Standard Location and Implementation	Local streets and some collectors
Emergency and Service Vehicle Impact	none
Device Expense and Maintenance	very little expense
Illustration	TRUCKS

Device Name Street Closures or cul-de-sacs Closing of streets either permanently or during specific times of the day Device Description Typical Impact Slows traffic Traffic Speed Typical Impact Reduces volume Traffic Volume Can have a positive impact on a neighborhood, however, since the traffic "Quality Of Life" has to go somewhere, other areas will be affected by the closures. Assessment of Device Standard Location Arterials, Collectors and Local streets and Implementation Emergency and Service Possible that routes can be longer for emergency and service vehicles Vehicle Impact **Device Expense** Temporary closures can be inexpensive and Maintenance Illustration