This guide is designed to provide community leaders with a model to guide residents to better understand the available tools and the necessary steps to seek basic and comprehensive traffic calming services.

The purpose of the Baton Rouge Residential Traffic Calming Guide is to assist community leaders with an understanding of the Baton Rouge-Parish of East Baton Rouge Traffic Calming Initiative. It is to provide community leaders with a model to guide residents forward to a better understanding of the available tools and the necessary steps to seek basic and comprehensive traffic calming services for residential roadways only.

The first step towards traffic calming is to contact the City. For traffic enforcement issues contact the Police Department at 389-3874 or the East Baton Rouge Sheriff’s Office at 389-4851. For traffic calming issues regarding traffic safety, education, or engineering, contact the DPW-Traffic Engineering Division (DPW-TED). The quickest way to contact the DPW-TED is to call or email us at:

Phone: 225-389-3246
E-mail: trafficengineer@brgov.com

A list of other helpful numbers relating to traffic calming is presented in the traffic calming brochure, included as an attachment to this toolkit.

The following sections of this toolkit give a more detailed description of the different levels of traffic calming and the decision-making and implementation process. If you are already familiar with traffic calming in your neighborhood, please refer to “Section 7 - How to Access Traffic Calming Services”.

PURPOSE
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ACKNOWLEDGMENTS
Traffic Calming is the management of traffic so that its negative impacts on residents, pedestrians and schools is minimized.
Speed, high traffic volumes and discourteous behavior of motorists are adversely impacting a growing number of Baton Rouge residents. These conditions are also having a negative effect on pedestrians and bicyclists, particularly near schools. The City-Parish has responded to these conditions with the installation of traffic control devices, roadway features, and pedestrian improvements and through the deployment of resources to enforce traffic and parking regulations. The application of education programs has also been instituted. These efforts are referred to as traffic calming. The City of Baton Rouge’s definition of traffic calming is “the management of traffic so that its negative impacts on residents, pedestrians and schools are minimized”.

The City Council’s policy on traffic calming describes the general processes and responsibilities related to traffic calming so that interested parties can effectively access this City-Parish service.

The elements that are part of traffic calming are categorized into three levels:

**LEVEL I ELEMENTS (BASIC)**

Basic traffic calming elements are those traffic control devices and programs implemented on a day-to-day basis to regulate, warn, guide, inform, enforce and educate motorists, bicyclists and pedestrians. They include standard striping and signing elements as found in the State of California Traffic Manual, minor roadway design elements to improve visibility and safety, enforcement by police, and safety education programs. Basic elements are used primarily in those areas where traffic impacts have been found not to be excessive or serious, but where traffic control and/or education has been determined to be appropriate.

Some common basic elements include:

- High Visibility Crosswalks
- Minor Bulb-Outs
- Warning Signs
- Stop Signs
- High Visibility Signs
- Radar Trailer/ Radar Signs
- Police Enforcement
- Traffic Signal Timing
- Striping Changes
- Curb Markings
- Truck Restrictions
- Signed Turn Restrictions
- Lighting Improvements

The City of Baton Rouge Parish of East Baton Rouge has three levels of traffic calming: Level I, Level II, and Level III.
LEVEL II ELEMENTS
(SPEED AND SAFETY CONTROLS)

Level II Elements are traffic control devices and roadway design features primarily designed to slow traffic within residential areas. They are employed when either the use of Level 1 (Basic) Elements cannot effectively address speeding issues, or it has been found that the 85th percentile speed is greater than 7mph over the posted speed limits, or accidents are significantly higher than the norm for the studied area.

Traffic Circles  Road Humps
Medians      Chokers
Chicanes  Raised Crosswalks
Major Bulbouts

LEVEL III ELEMENTS
(VOLUME CONTROLS)

Level III Elements are traffic control devices and roadway design features primarily designed to discourage cut-through traffic from using residential streets. They are used when it has been found that traffic volumes are significantly higher in the studied area than found on similar streets in other areas. Level III devices can be used by themselves or in conjunction with Level I (Basic) and Level II Elements. Some common Level III elements include:

Full Street Closure  Partial Street Closure
Diverters  Extended Medians
Basic traffic calming elements are those traffic control devices and programs implemented on a day-to-day basis.
SAFETY PROGRAMS

Police enforcement entails the presence of police to monitor speeds and issue citations. This method is used as an initial attempt to reduce speeds on streets. It is most applicable on streets with documented speeding problems and the need for quick mitigation. It can also be used during the learning period when new devices or restrictions are first implemented. For police enforcement, contact the Traffic Unit (TU) of the police department at 225-389-3874.

Positive Aspects

- Effective while officer is actually present at the location
- Can be targeted to specific time periods that are deemed to be the most problematic.
- Can be implemented on short notice
- Targets violators without affecting normal traffic

Negative Aspects

- It is a temporary measure
- Enforcement may be limited by police availability and other policing duties

Further information about safety programs can be obtained by contacting the Police Department at 225-389-3874, or the TED at 225-389-3246.
HIGH-VISIBILITY CROSSWALKS

A high visibility crosswalk is a crosswalk that incorporates striped patterns, pavement lights, improved signing or advance flashing beacons to improve the visibility of the crosswalk.

This element is most applicable on local streets where speed control and pedestrian crossing designation is desired. It can also be used to discourage cut-through traffic. This type of crosswalk is most appropriate near schools and recreation facilities.

Positive Aspects

- Slows traffic
- Increases driver awareness of crosswalk
- Requires minimal maintenance for striped crosswalks

Negative Aspects

- May require removal of parking in the vicinity of the crosswalk
- May result in significant maintenance for embedded pavement lights or advance flashing lights
**RADAR TRAILER**

This is a mobile trailer-mounted radar display that informs drivers of their speed. This element is applicable on any street where speeding is a problem.

**Positive Aspects**
- Educational tool
- Good public relations for neighborhoods
- Effective for temporary speed reduction needs

**Negative Aspects**
- Not self-enforcing
- Duration of effectiveness is limited
- May require temporary lane closures

**STRIPING**

Striping is used to create narrow lanes which give the impression of a narrow street. This makes the motorist feel restricted, which helps reduce speeds. Striping can be at curb end or in the middle of the street to create a median.

It is most applicable to long, wide residential streets where speeding traffic exists.

**Positive Aspects**
- Easy to install and modify as necessary
- Low cost of implementation

**Negative Aspects**
- May not be self-enforcing
**Curb Markings**

Curb markings are special curb paintings that restrict or limit parking along the curb to enhance safety and/or increase visibility of pedestrians and bicyclists. Some applications include:

- Red curb between driveways to increase visibility
- Red curb at crosswalk to increase visibility
- Blue curbs for accessible parking
- Green and yellow curbs for passenger and freight loading
- Red curb at pedestrian ramps

**Positive Aspects**
- Provides for safer conditions for motorists, pedestrians and bicyclists
- Easy to install and maintain

**Negative Aspects**
- Could result in loss of parking

**Stop Signs**

Stop signs are intended to assign the right-of-way between motorists, pedestrians and cyclists at an intersection. Although many citizens believe that stop signs help reduce speeds on their street, studies have shown that by mid-block speeds are as high or higher than those locations without stop signs. Stop signs are typically used on non-arterial street intersections.

**Positive Aspects**
- Reduces right-of-way conflicts at an intersection
- Increases opportunities for pedestrians to cross the roadway
- May discourage cut-through traffic
Negative Aspects

- Unwarranted stop signs increases unnecessary delays for the approaches
- Pedestrian safety compromised if motorists do not comply
- Penalizes all motorists on the main street even if obeying the speed limit
- Potential increase in noise and air pollution in the vicinity of the stop

A complete information brochure on Stop Signs is included as an attachment to this toolkit.

**TRUCK RESTRICTIONS**

Restricting the entry of trucks into residential neighborhoods can be achieved through the posting of truck restriction signs. This method is most applicable on residential streets to reduce cut-through traffic of commercial vehicles.

Positive Aspects

- Redirects commercial traffic through main streets
- Reduces noise and air pollution due to trucks in residential streets

Negative Aspects

- Not self-enforcing
- Causes an inconvenience for residents in the event of truck services needed for moving, deliveries and other heavy services.
HIGH-VISIBILITY SIGNS

High visibility signs may include larger speed limit signs on the streets to ensure visibility to motorists. This element is a basic method aimed at slowing traffic through visual reminders of the speed limits or other regulations. It can be applied to most streets that have speeding or other problems.

Positive Aspects
- Provides a clear definition of legal speed limit or other warnings
- Provides context for enforcement efforts

Negative Aspects
- Not self-enforcing
- Larger signs provide a negative impact on the aesthetics of the street

SIGNED TURN RESTRICTIONS

Signs may be installed which prohibit certain movements at an intersection, e.g., “No Left Turn”. This measure is applicable on streets where cut-through traffic exists. This method can be tailored to be applicable during the most problematic times by defining a time period for the restriction.

Positive Aspects
- Redirects traffic to main streets
- Reduces cut-through traffic
- Addresses time-of-day problems

Negative Aspects
- Not self-enforcing
- May increase trip length for some commuters
- May redirect traffic to other neighborhood streets
RESIDENTIAL PERMIT PARKING

This program is administered primarily to address continuous parking shortage in residential neighborhoods where there is a demonstrated parking problem that cannot be resolved through standard parking prohibitions. Under this program, the neighborhood is designated a permit parking area and the residents purchase permits for themselves and their visitors on a bi-annual basis.

Permit parking is designed to keep vehicles from outside the neighborhood from parking in the area. Permit parking is not an appropriate solution when the neighborhood is experiencing a shortage of parking due to its own parking needs.

Residential permit parking zones are being evaluated by the City of Baton Rouge/Parish of East Baton Rouge to address severe parking shortages adjacent to large public meeting areas.

Positive Aspects
- Protects the neighborhood from invading commercial and business traffic
- Preserves parking spaces for residents and guests

Negative Aspects
- Costly to implement, administer and maintain
- Regular enforcement is necessary for effectiveness
- Could result in unexpected citations issued to guests
- Inconvenient for residents due to the renewal process, guest permits, etc.
Minor Bulbouts

Minor bulbouts narrow the street width at intersections, creating a shorter and safer pedestrian crossing and encouraging drivers to slow down. Bulbouts may be striped or may be curbed islands containing special paving or landscaping which maintain current drainage patterns. Corner bulb-outs are typically used adjacent to intersections where parking is restricted.

Positive Aspects

- Pedestrian crossing distance is reduced
- Narrowed roadway section may contribute to reduction of speeds
- Breaks up driver’s view path

Negative Aspects

- May create a hazard for bicyclists who are less visible to turning vehicles and cross traffic
- May require partial or total removal of parking
- Could result in increased maintenance costs
- Care must be exercised to keep motorists from hitting bulbouts
SECTION TWO • LEVEL I (BASIC) TRAFFIC CALMING MEASURES
Level II traffic calming elements are intended to address speeding/safety concerns with devices that go beyond basic traffic calming, but do not require Metro Council approval.
Speed Humps

Speed humps are areas of pavement raised 3 - 4 inches in height over a minimum of 12 feet in length. The combination of different heights, lengths and approach ramps will affect the speed a vehicle can comfortably go over the hump. Road bumps are marked with signs and pavement markings.

Speed humps are applicable on local residential streets where speed control is desired or where cut-through traffic is to be discouraged.

For more information, see the City of Baton Rouge/Parish of East Baton Rouge Speed Hump Brochure included as an attachment to this toolkit.
SECTION THREE • LEVEL II TRAFFIC CALMING DEVICES
Raised Crosswalks

Raised crosswalks are flat-topped road bumps built as a pedestrian crosswalk.

This type of crosswalk is applicable to local streets where speed control and pedestrian crossing designation are desired. It can be an effective safety tool near schools and recreation facilities and can also be used to discourage cut-through traffic. Raised crosswalks are well-marked and may contain special paving or textures.

Positive Aspects
- Slows traffic
- Increases pedestrian visibility in the crosswalks
- Requires minimal maintenance

Negative Aspects
- May increase emergency response times
- May damage emergency response vehicles if not carefully designed
- May increase traffic noise in vicinity of crosswalk
- May create drainage issues where raised crossing extends from curb to curb
- May require extensive warning signs to be effective
Minor Traffic Circles

Traffic Circles are raised circular medians that direct counterclockwise traffic flow through an intersection. Vehicles must change their travel path to maneuver around the circle, which may be controlled by "Yield on Entry" on all approaches. In some cases, stop signs can also be used in conjunction with circles.

Traffic Circles are applicable to control speed and improve side street access. Two levels of traffic circles are available for the City of Baton Rouge / Parish of East Baton Rouge: minor and major. Minor traffic circles may contain low growth landscaping and/or a tree.

Positive Aspects
- Provides increased access to street from side street
- Slows traffic as it drives around the circle
- Breaks up sight-lines on straight streets
- Opportunity for landscaping and visual enhancements to the neighborhood

Negative Aspects
- Definition of right-of-way is contrary to the "Yield to the vehicle on the right" rule
- May impede left turns by large vehicles
- Bicyclists must merge with traffic around circle
Major Traffic Circles

Traffic Circles are raised circular medians that direct counterclockwise traffic flow through an intersection. Vehicles must change their travel path to maneuver around the circle, which may be controlled by “Yield on Entry” on all approaches. In some cases, stop signs can also be used in conjunction with circles.

Traffic Circles are applicable to control speed and improve side street access. Two levels of traffic circles are available for the City of Baton Rouge / Parish of East Baton Rouge: minor and major. Major traffic circles include curbed approach islands to direct traffic and create a pedestrian refuge. The intersection may contain special paving and the circle may contain landscaping and/or a tree.

Positive Aspects
- Provides increased access to street from side street
- Slows traffic as drivers maneuver around the circle
- Breaks up sight-lines on straight streets
- Opportunity for landscaping and visual enhancements to the neighborhood

Negative Aspects
- Definition of right-of-way is contrary to the “Yield to the vehicle on the right” rule
- May impede emergency response
- May impede left turns by large vehicles
- May impact flow of pedestrians and bicyclists.
Mid-Block Chokers

Chokers are raised islands in the parking zone that can be detached from the curbline to allow for drainage.

Mid-Block chokers narrow the roadway and are most applicable on wide streets with speeding and cut-through problems.

Positive Aspects
- Speed reduction
- Breaks up driver's sight-line
- Reduces pedestrian crossing
- Increases pedestrian and motorist visibility

Negative Aspects
- May require partial or total removal of on-street parking
- Increases maintenance for areas where street sweeping equipment cannot reach between the choker and the curbline
Medians

Medians are raised islands in the center of the roadway that separate traffic directions.

Medians are used on wide streets to narrow the travel lanes, interrupt sight distances down the center of the roadway, and ease pedestrian crossings.

Positive Aspects

- Narrowed travel lanes can slow vehicle speeds
- Shortens pedestrian crossing
- Opportunity for landscaping and visual enhancements to the neighborhood

Negative Aspects

- Long medians may interrupt emergency access and operations
- May interrupt driveway access and result in U-turns at the end of medians
- May require removal of parking
- High cost to construct and maintain
Major Bulbouts

Major bulbouts narrow the street width at intersections, creating a shorter and safer pedestrian crossing and encouraging drivers to slow down.

Construction of major bulbouts requires altering the curb, gutter and sidewalk. Bulbouts may contain special paving or landscaping and are generally used at intersections where parking is restricted.

Positive Aspects
- Pedestrian crossing distance is reduced
- Narrowed roadway section may contribute to reduction of speeds
- Breaks up driver’s sight-line
- Opportunity for landscaping and visual enhancements to the neighborhood

Negative Aspects
- May reduce visibility for cyclists who are less visible to turning and cross traffic
- May require partial or total loss of parking
- Could result in a minor increase on maintenance
- Care should be taken to keep motorists from hitting bulb outs
Chicanes

A curved street alignment that can be designed into new developments or retrofitted in existing right-of-ways is called a chicane. The curvilinear alignment requires additional maneuvering and shortens driver’s sight-lines, resulting in lower average speeds.

This device can be applied to any street where speed control is desired, provided the street is wide enough to accommodate the curvilinear design.

Positive Aspects
- May slow down traffic
- Changes the look of the street, making it more aesthetically pleasing
- Has minimal impact on emergency response

Negative Aspects
- Involves extensive design and expensive implementation
- May require partial or total removal of on-street parking
- Additional maintenance for service vehicles to maneuver a curvilinear street
- May have little or no impact on cut-through traffic
- May require modification of drainage features and other utilities
Level III Elements are traffic control devices and roadway design features primarily designed to discourage cut-through traffic from using residential streets.
Diverters

Diverters are raised areas placed diagonally across a four-way intersection that restrict through movements and force a turn in all directions.

Diverters are most applicable to local streets where cut-through traffic is a major problem.

Positive Aspects
- Reduces cut-through traffic
- Channels traffic flow, thus eliminating conflicts at an intersection
- Can be designed to accommodate emergency vehicles
- Opportunity for landscaping and visual enhancements to the neighborhood
- Can accommodate bicycle traffic through intersection

Negative Aspects
- Will re-direct traffic to other local streets
- Causes increased travel time for local residents
- Is a permanent measure, even though problem may be limited to certain times of day
- High installation costs
- May require partial or total removal of parking near intersection
- Needs significant warning and guiding signs
Extended Median

Medians are raised islands in the center of the roadway that separate traffic directions. Extended medians reach beyond cross street(s), thus eliminating left turns and through traffic.

Medians are used on wide streets to narrow the travel lanes, interrupt sight distances down the center of the roadway, and ease pedestrian crossings. Extended medians can be used to discourage cut-through traffic through the neighborhood.

Positive Aspects

- Narrowed travel lanes can slow vehicle speeds
- Opportunity for landscaping and visual enhancements to the neighborhood
- Reduces cut-through traffic

Negative Aspects

- Has a significant impact on emergency access and operations
- May interrupt driveway access and result in U-turns
- May require removal of parking
- High cost to construct and maintain
SECTION

RIGHT OF WAY

PLAN

OPTIONAL SPECIAL PAVING
PLANTED MEDIAN WITH CONCRETE CURBING

"ONE-WAY" SIGNAGE
ADA RAMPS (TYPICAL)
Partial Closure

A Partial closure is a physical barrier that restricts vehicles from turning into a street, while still allowing for bicycle access. The opposite lane is left open to allow vehicle exits. Two-way traffic is maintained for the rest of the block.

Partial closures are applicable to local streets where cut-through traffic is a concern. It can also be a favorable traffic volume control measure.

Positive Aspects
- Restricts movements into a street while maintaining full access and movement within the street block for residents
- Reduces cut-through traffic
  - Pedestrian crossing distance is reduced through a closure island
- Creates a space for street landscaping

Negative Aspects
- May require partial or total removal of on-street parking
- May redirect traffic to other local streets
- May increase trip length for local drivers
- Is in effect at all times, even if cut-through problem exists only at certain times of day
Full Closure

A complete closure of the street blocks both lanes of travel, so that the street becomes a cul-de-sac. This device eliminates all through traffic and limits street access to local residents.

This device is applicable to local streets with major cut-through concerns where an emergency vehicle response route does not exist. The closure location may be designed as a pocket park with through bicycle and pedestrian access.

Positive Aspects

- Restricts all through traffic
- Effective volume and speed control measure
- Improves the aesthetic quality of the street

Negative Aspects

- May re-direct traffic to other local streets
- May increase trip length for local drivers
- May require partial removal of on-street parking
- Not applicable for designated emergency vehicle response routes
- May result in difficult turn-around conditions
Comprehensive traffic calming can be programmed by DPW Traffic Engineering or initiated through a petition process by the neighborhood.
Traffic enforcement can be requested by calling the police department at 389-3874 or the Sheriff’s Office at 389-4851.

Individuals and organizations that are concerned about the negative impacts of traffic may contact DPW Traffic Engineering Division at 389-3246 to request a traffic calming analysis. If the concern regards the enforcement of traffic regulations, the requesting party should contact the police department at 389-3874 or in the parish, should contact the Sheriff’s department at 389-4851.

TED will perform the appropriate study to address the requester’s particular concern and situation. Most engineering studies will be completed within four weeks of the receipt of the request. The application of some Level I (Basic) devices are subject to independent policies and guidelines, such as those for crosswalks, stop signs, traffic signals, and bike lanes. Some devices (Level III) require city council approval, which will extend the time period before installation.

The traffic calming decision-making process, highlighting the roles played by residents and DPW Traffic Engineering Division is shown in the schematic on the next page.

**LEVEL I (BASIC) TRAFFIC CALMING SERVICES**
For Level I (Basic) traffic calming services that include the installation of traffic control devices (signs and markings), installation will normally be completed within three weeks of the study findings. Traffic enforcement, provided by the police department, and so generally occurs within two weeks from the date of request. In certain cases where requested by the community and supported by the police department, weeks to implement. If education and/or public outreach activities are needed, the requesting party will be informed of the schedule.

**LEVEL II & III TRAFFIC CALMING SERVICES**
DPW Traffic Engineering Division may program a comprehensive traffic calming analysis whenever an “adverse traffic” condition warrants an analysis. An adverse traffic condition is defined to exist on streets that experience traffic volumes, speeds or crash rates higher than 10% above the citywide average for a similar roadway and land use.

In addition, streets that are deemed to have unusual conditions, like limited visibility of pedestrians, irregular roadway design features, or indications of unreported crashes, will also be considered to have an adverse traffic condition.
Traffic Calming Decision-Making Process

**RESIDENTS’ ROLE**

- Traffic Calming Request (signature of 10 residences)
  - Do Citizens Perceive as Effective?
    - **YES**
      - CONCERN ADDRESSED
    - **NO**

- Citizen Request for Comprehensive Traffic Calming
  - Notify Resident
    - Does Resident Agree?
      - **YES**
        - CONCERN ADDRESSED
      - **NO**

- Petition for Comprehensive Traffic Calming
  - Notify Resident
    - Does Resident Agree?
      - **YES**
        - CONCERN ADDRESSED
      - **NO**

**DPW TRAFFIC ENGINEERING’S ROLE**

- Basic Study Performed
  - Is Problem Legitimate?
    - **NO**
      - Notify Resident
    - **YES**
      - Basic Traffic Calming Implemented

- Evaluate Need for Comprehensive Traffic Calming
  - Does It Qualify?
    - **NO**
      - Notify Resident
    - **YES**
      - CONCERN ADDRESSED

- Evaluate Issues for Comprehensive Traffic Calming Solution
  - SPEED or SAFETY ISSUE
    - Level I Implementation Process Begins
  - EXCESSIVE VOLUME or SAFETY ISSUE
    - Level II Implementation Process Begins
On streets that do not qualify under the “adverse condition” definitions, a comprehensive traffic calming project may be initiated through a petition process. The petition, which will be supplied by DPW-TED (See Exhibit 7-A, under Section 7.0) must have the support of a super majority of 65 percent of the households on the section of street(s) that DPW-TED staff determines to be within a project area. Written notices will be sent to any affected business informing them of the proposed action and schedule.

A Level I traffic calming project is intended to address pedestrian safety, speeding or other inappropriate driver behavior with devices that go beyond basic traffic calming devices, but does not require Metro Council approval. DPW-TED will work with interested parties to gain community input on a proposed traffic calming plan. Substantial community support in the project area is needed to finalize a plan. Substantial community support may be demonstrated through community meetings, or other means.

Most Level II traffic calming plans can be permanently installed following finalization of the plan without a trial installation. Some plans, however, may require a trial installation, which will generally occur within four months from the date the plan is finalized. The duration of the trial period will normally be less than three months. During this period, traffic engineers will evaluate the plan. The community’s input will be solicited and a final plan will be developed by traffic engineers, supported by the community and programmed for construction.

A Level III traffic calming project is intended to redirect traffic in order to address excessive traffic volumes and requires Metro Council approval. Because Level III traffic calming improvements are the most complex, they require more outreach, community input, and review by affected service providers, and therefore take longer to complete. Based upon potential impacts of the proposed project, DPW-TED will determine the affected project area. Level II projects require the active involvement of a Neighborhood Traffic Committee and the support of the affected residents and property owners. The Chief Traffic Engineer will solicit volunteers and approve membership on the Traffic Committee. Committee members must own property or reside within the affected project area.

Substantial community support in the project area is needed to finalize a plan.
The petition must have a majority of 65 percent support of the households within the project study area before a trial installation is presented to the Metro Council.

Based on relevant data and community input, the Traffic Committee and traffic engineers will develop a proposed traffic calming plan. The Traffic Committee will distribute a city developed petition to all households, businesses and absentee property owners within the project area. The petition must have a super majority of 65 percent support of the households within the project study area before a trial installation is presented to the City Council. The duration of the trial will normally be less than six months. During the trial period, traffic engineers will evaluate the plan and community input will be solicited. Minor adjustments to the plan may be made based on the input received. Based on all relevant data and community input, the DPW-TED in coordination with the Traffic Committee, will develop a proposed plan that will be presented to the community for its approval. The finalized plan must have the approval of the majority of the affected households (65 percent). The plan is then presented to the Metro Council for its consideration. Generally it will take from 8 to 16 months from the initiation of a Level 3 study to the Metro Council’s approval of a permanent plan.
Implementation can take from two weeks to twelve months, depending on the level and complexity of the measure.
LEVEL I (BASIC) TRAFFIC CALMING

Level I (Basic) traffic calming elements are normally implemented within four weeks of finalizing the plan. Some devices require city council approval, which will extend the time before installation. In some cases capital improvements will require funding, which will further extend the time of completion. Traffic enforcement takes about 2 weeks from the date of request.

LEVEL II AND LEVEL III TRAFFIC CALMING

Once a final plan has been selected, the plan is programmed for design and construction. Depending on complexity of the plan, it is either designed by DPW-TED or contracted out to a consultant to be designed. The traffic calming measure is then constructed either by Department of Public Works staff or by a contractor. The entire implementation process for Level II or Level III traffic calming could take anywhere from one to twelve months based upon the complexity of the improvement.

The schematics on the following pages show the implementation processes for Level II (Speed/Safety Controls) and Level III (Volume Control) measures.
Level II Implementation Process

**Resident's Role**

- Community Meeting(s) to get input
- Approve Plan at Community Meeting(s), Petition, or other means

**DPW Traffic Engineering Division's Role**

- Need for Level I Traffic Calming Identified (signature of 10 residences)
- Project Area Defined
- Test Plan Developed
- Is Final Plan Developed Permanent?
  - Yes
  - No
    - Trial Period Plan Tested and Modified as Necessary
    - Concern Addressed
    - Permanent Plan Installed & Monitored for 6 Months
Level III Implementation Process

**Resident's Role**

1. Need for Level III Traffic Calming Identified (signature of 10 residents)
2. Neighborhood Traffic Committee Formed
3. Community Meeting(s) to Present Plan & Modify as Necessary
4. Neighborhood Petition to be Approved by 65% Majority of Project Area Households
5. Community Input Meeting(s)
6. Community Approve Final Plan with 65% Majority of Project Area Households

**DPW Traffic Engineering Division's Role**

1. Project Area Defined
2. DPW-TED to Solicit and Approve Membership
3. Test Plan Developed
4. Trial Period Plan Tested and Modified as Necessary
5. Final Plan Developed
6. Administration Approves Final Plan
7. Final Plan Implemented & Monitored for 6 Months

**Concern Addressed**
The first step towards traffic calming is to contact the Traffic Engineering Division and describe the concern or traffic problem.
The first step towards traffic calming is to contact the DPW - Traffic Engineering Division and describe the concern or traffic problem. The quickest way to contact DPW-TED is to call or e-mail us at

*Phone: 225-389-3246 (ask for Traffic Engineering)*

*E-mail: trafficengineer@brgov.com*

A helpful list of other numbers relating to traffic calming is presented in the traffic calming brochure included as an attachment to this toolkit.

Depending on the concern, the appropriate level of traffic calming for the problem is identified and a program to effectively select an appropriate tool to address the problem is developed.

Basic traffic calming elements are aimed at day to day regulation, warning, informing, enforcing and educating motorist, pedestrians and cyclists of traffic safety. Basic traffic calming is employed primarily in those areas where speeds, crashes and volumes have been found not to exceed city wide averages.

**Level II traffic calming for Speed Control is employed when:**

Basic elements cannot effectively address speeding concerns, and the 85 percentile speed is greater than 7mph over posted speed limits.

Level I traffic calming can also be initiated through a neighborhood petition process (See Exhibit 7-A), by checking off “speeding”.

**Level III traffic calming for Traffic Volume Control is employed when:**

Basic elements are not effective at addressing volume concerns, and the average traffic volumes and accidents are significantly higher than the traffic volumes and accidents associated with the norms for the area studied.

Level III traffic calming can also be initiated through a neighborhood petition process (See Exhibit 7-A), by checking off “Cut Through Traffic”.

Each tool that has been described in the previous sections has appropriate applications and uses. Each addresses the various objectives of traffic calming more or less effectively than others. Although the application of each device varies by conditions, the following is a general list of traffic calming devices by objective.
INCREASE SAFETY
- Striping (Level I)
- Stop Signs (Level I)
- Larger Signs (Level I)
- Curb Markings (Level I)
- Warning Signs (Level I)
- High Visibility X-walks (Level I)
- Police Enforcement (Level I)
- Medians (Level II)
- Corner Bulbouts - Minor (Level I)

REDUCE SPEED
- Police Enforcement (Level I)
- Radar Trailer (Level I)
- High Visibility X-Walks (Level I)
- Traffic Circle (Level II)
- Corner Bulbouts - Minor (Level I)
- Medians (Level II)
- Chokers (Level II)
- Road Bumps (Level II)
- Chicanes (Level II)
- Corner Bulbouts - Major (Level II)
- Diagonal Diverters (Level III)

MITIGATE CUT-THROUGH TRAFFIC
- Signed Turn Restrictions (Level I)
- Truck Restrictions (Level I)
- Raised X-Walks (Level II)
- Traffic Circles (Level II)
- Diagonal Diverters (Level III)
Partial Closures (Level III)
Full Closure (Level III)
Extended Median (Level III)

**IMPROVE AESTHETICS**
Landscaping (Level I)
Street Furniture (Level I)
Corner Bulbouts - Minor (Level I)
Medians (Level II)
Traffic Circles (Level II)

Selecting the best tool requires considering proper application and construction and maintenance costs. For example, landscaping generally improves both effectiveness and aesthetics of a device but may be more expensive to install and maintain. Negative impacts of potential devices should be considered. Each device has both positive and negative impacts. These should be carefully considered to ensure that the proposed device will provide a net positive impact on the roadway or system.

A summary of the different elements and their relative effects on achieving the goals of traffic calming is tabulated in Table 7-1.

Once the problem has been identified, the appropriate process for traffic calming as described in Section 5 - Process to Reach Decisions, and Section 6 - Process to Implement Decisions, is followed.

Exhibit 7-A is an example petition that will aid in obtaining neighborhood input for Level II and Level III traffic calming.

**EXCEPTIONS TO IMPLEMENTATION OF TRAFFIC CALMING DEVICES**

It is important to remember that traffic calming is primarily oriented to addressing traffic management issues in residential areas and its use on arterial and collector streets is restricted. Arterial and major collector streets are intended to carry higher volumes of traffic and accommodate a large
<table>
<thead>
<tr>
<th>Measure</th>
<th>Level I Elements</th>
<th>Level II Elements</th>
<th>Level III Elements</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Speed Reduction</td>
<td>Volume Reduction</td>
<td>Noise Increase</td>
</tr>
<tr>
<td>Police Enforcement</td>
<td>Moderate-Major</td>
<td>None</td>
<td>No</td>
</tr>
<tr>
<td>Radar Trailer</td>
<td>Minor</td>
<td>None</td>
<td>No</td>
</tr>
<tr>
<td>Safety Education</td>
<td>Possible-Minor</td>
<td>None</td>
<td>No</td>
</tr>
<tr>
<td>Curb Markings</td>
<td>No</td>
<td>None</td>
<td>No</td>
</tr>
<tr>
<td>Warning Signs</td>
<td>Possible-Minor</td>
<td>None</td>
<td>No</td>
</tr>
<tr>
<td>Striping</td>
<td>Possible-Minor</td>
<td>None</td>
<td>No</td>
</tr>
<tr>
<td>Truck Restriction</td>
<td>No</td>
<td>Minor</td>
<td>No</td>
</tr>
<tr>
<td>Signed Turn Restrictions</td>
<td>Possible-Minor</td>
<td>Possible-Minor</td>
<td>No</td>
</tr>
<tr>
<td>High Visibility Signs</td>
<td>Possible-Minor</td>
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<td>No</td>
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<tr>
<td>High Visibility X-Walks</td>
<td>Possible-Minor</td>
<td>None</td>
<td>No</td>
</tr>
<tr>
<td>Stop Signs</td>
<td>Minor</td>
<td>None</td>
<td>Possible-Minor</td>
</tr>
<tr>
<td>Minor Bulb-outs</td>
<td>Possible-Minor</td>
<td>Possible-Minor</td>
<td>No</td>
</tr>
<tr>
<td>Speed Humps</td>
<td>Minor-Moderate</td>
<td>Possible-Minor</td>
<td>Minor</td>
</tr>
<tr>
<td>Raised Crosswalks</td>
<td>Minor-Moderate</td>
<td>Possible-Minor</td>
<td>Minor</td>
</tr>
<tr>
<td>Major Bulb-outs</td>
<td>Minor</td>
<td>Possible-Minor</td>
<td>No</td>
</tr>
<tr>
<td>Minor Traffic Circle</td>
<td>Minor-Moderate</td>
<td>Possible-Minor</td>
<td>No</td>
</tr>
<tr>
<td>Major Traffic Circle</td>
<td>Minor-Moderate</td>
<td>Possible-Minor</td>
<td>No</td>
</tr>
<tr>
<td>Chokers</td>
<td>Minor-Moderate</td>
<td>Possible-Minor</td>
<td>No</td>
</tr>
<tr>
<td>Medians</td>
<td>Minor-Moderate</td>
<td>Possible-Minor</td>
<td>No</td>
</tr>
<tr>
<td>Chicanes</td>
<td>Minor-Moderate</td>
<td>Possible-Minor</td>
<td>No</td>
</tr>
<tr>
<td>Diverters</td>
<td>Minor-Major</td>
<td>Minor-Major</td>
<td>Minor</td>
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<tr>
<td>Partial Closure</td>
<td>Minor-Major</td>
<td>Minor-Major</td>
<td>Minor</td>
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<tr>
<td>Extended Median</td>
<td>Minor-Major</td>
<td>Minor-Major</td>
<td>Minor</td>
</tr>
<tr>
<td>Full Closure</td>
<td>Minor-Major</td>
<td>Minor-Major</td>
<td>Minor</td>
</tr>
</tbody>
</table>
vehicle mix. Therefore, it is important to maintain the capacity of these roads for their operation and the operation of the street system. Where pedestrian and cyclist traffic is to be accommodated on Arterial and Collector streets, some traffic calming measures can be considered.

**IMPACTS TO LOCAL STREETS**

One of the most significant concerns with using traffic calming tools on arterial or collector streets is the potential impact on local streets. Aggressive traffic calming devices on arterial streets may have the potential of diverting traffic off the collector and arterial system onto local streets. Local streets should be protected from arterial level traffic and must be considered in light of changes to the adjacent arterial and collector system.

**IMPACTS TO EMERGENCY RESPONSE**

In most cases, the arterial and collector street system serves as the major response routes for emergency response vehicles. Concern over the use of traffic calming devices interfering with emergency response or increased response times is generally higher on arterial and collector streets.

**WE HAVE IMPLEMENTED TRAFFIC CALMING—WHAT NEXT?**

Once a traffic calming project has been implemented in the neighborhood, the impacts and effectiveness of the device are evaluated to determine if the stated objectives of the plan are being met. These results help determine the effectiveness of the implemented plan and provide information for selecting various devices in the future. A resident satisfaction survey will be conducted to provide feedback on the effectiveness of the measures as perceived by residents.

With a successful completion of the process, the Community and Traffic Engineering Division are on their way to a safer, more livable and ‘traffic calmed’ city!!
General Warrants for Traffic Calming

The DPW Traffic Engineering Division has established four types of warrants for traffic calming procedures. As the term is used in the Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD), warrants are minimum requirements that should be met, in most cases, before a given traffic control device is considered or installed. The primary warrants are Minimum Bidirectional Traffic Volume and Measured Speed. One of these two warrants must be met before the supplemental warrants of Accidents Per Year and School Zones are even considered. In addition, two of the four must be met before the DPW Traffic Engineering Division will even accept a petition from a neighborhood or a full-scale traffic study to be implemented.

General Warrants for Traffic Calming on Residential Streets

1. Minimum Bidirectional Traffic Volume*  >1500 vpd
2. Measured Speed*  85th percentile = 7mph over psl
3. Accidents Per Year  3
4. School Zone  Existing within studied area

* Warrant #1 or #2 must be met to be considered for Traffic Calming procedures
(vpd = vehicles per day  psl = posted speed limit  mph = miles per hour)
Project Priority Ranking System

The Project Priority Ranking System ranks projects in order of funding priority. The General Warrants are used to determine if projects meet the minimum requirements to be eligible for funding. Once eligible, a project is awarded points based on each warrant. The summation of these points will result in a cumulative score that is used to prioritize projects and assign each one a ranking. In order for a project to qualify to have permanent traffic calming devices installed, a minimum cumulative score will be required. The minimum scoring requirement will be determined by the DPW Traffic Engineering Division. Those neighborhoods not meeting the minimum scoring requirement will still be eligible for temporary traffic calming devices. However, permanent traffic calming devices may be given consideration if the neighborhood chooses to assume a percentage of the expense associated with the project. The amount of the financial contribution that will be required will be determined by the DPW Traffic Engineering Division based on the current budget for the year.

Project Priority Point System

1. Minimum Bidirectional Traffic Volume 1 point per vehicle >1500 vpd
2. Measured Speed 1 point per vehicle exceeding psl
3. Accidents Per Year 1 point per accident >3
4. School Zone 10 points if existing in studied area

(vpdl = vehicles per day psl = posted speed limit mph = miles per hour)

Project Priority Ranking (Example)

<table>
<thead>
<tr>
<th>RANK</th>
<th>LOCATION</th>
<th>WARRANT 1</th>
<th>WARRANT 2</th>
<th>WARRANT 3</th>
<th>WARRANT 4</th>
<th>SCORE</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>TOTAL VOLUME</td>
<td># VEH &gt; 30MPH</td>
<td>ACCIDENTS</td>
<td>SCHOOL ZONE</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>LOCATION &quot;A&quot;**</td>
<td>6542**</td>
<td>2786**</td>
<td>4**</td>
<td>10**</td>
<td>7839**</td>
</tr>
<tr>
<td>2</td>
<td>LOCATION &quot;B&quot;</td>
<td>4351</td>
<td>1112</td>
<td>3</td>
<td>10</td>
<td>3973</td>
</tr>
<tr>
<td>3</td>
<td>LOCATION &quot;C&quot;</td>
<td>2887</td>
<td>601</td>
<td>2</td>
<td>0</td>
<td>1988</td>
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<tr>
<td>4</td>
<td>LOCATION &quot;D&quot;</td>
<td>1984</td>
<td>328</td>
<td>0</td>
<td>0</td>
<td>812</td>
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</tbody>
</table>

**Formula for Location "A"**

\[
\frac{6542}{1500} + \frac{4}{3} + 1 + 10 = 7839
\]

56
Neighborhood Request for Comprehensive (Level II/Level III) Traffic Calming Study

We, the residents of ___________________________, would like the DPW-Traffic Engineering Division to initiate a Comprehensive Traffic Calming Study in our neighborhood to address the following concern(s):

☐ Speeding
☐ Cut-Through Traffic
☐ Commercial Vehicle Restriction
☐ Pedestrian Safety
☐ Parking Issues
☐ Other

We understand that the Comprehensive Traffic Calming Study involves active participation of our community. The decision making process may require us to set and attend neighborhood meetings and conduct further petition campaigns.

Please sign the attached form and mail it back to:

City of Baton Rouge - Parish of East Baton Rouge
Traffic Engineering Division
P.O. Box 1471
Baton Rouge, LA. 70821

Please note: One signature per household only. Make additional copies of Page 2, as necessary.
<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Address</th>
<th>Phone</th>
<th>Signature</th>
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<td>14.</td>
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</tbody>
</table>
acknowledgements

The City of Baton Rouge - Parish of East Baton Rouge wishes to thank the following for their assistance in the development of the Residential Traffic Calming Manual

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Martha Jane Tassin, District 06
Byron Sharper, District 07
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David Boneno, District 11
Mickey Skyring, District 12

City of Baton Rouge - Parish of East Baton Rouge Staff Members

Pete Newkirk, P.E. Director - Department of Public Works
Bryan Harmon, P.E. Deputy Director - Department of Public Works
Ingolf Partenheimer, P.E. Chief Traffic Engineer
Cyndi Pennington, P.E. Traffic Engineer
Todd Sumrall, E.I. Traffic Engineering
Bill Hurst, Graphics / Traffic Engineering
Teresa Hamilton, Traffic Engineering

And all the other Residential Traffic Calming Team Members

References

The Institute of Transportation Engineers and the Federal Highway Administration ("Traffic Calming, State of Practice," 1999)

City of San Jose - Traffic Calming Toolkit