



## Additional Documents Distributed for the Regular City Council Meeting October 18, 2017

Item No.	Agenda Item Description	Distributor	Document
I	Invocation	Marina Khubesrian, M.D.	PowerPoint, "Why L.A . is right to replace Columbus Day with Indigenous Peoples Day"
6	Councilmember Communications	Michael A. Cacciotti	PowerPoint, Various Photos
7	City Manager Communications	Elaine Aguilar, City Manager	PowerPoint, Halloween Spooktacular, Water Tour, and 11/21/2017 Special City Council Meeting
8	Merchant Minute	Craig Watson, Arroyo Outdoor	PowerPoint, Business Photos
18	Receive and File Monterey Road Configuration Project from Pasadena Avenue to Fair Oaks Avenue	Anthony J. Mejia, Chief City Clerk	Memo to Council
18	Receive and File Monterey Road Configuration Project from Pasadena Avenue to Fair Oaks Avenue	Paul Toor, Public Works Director	Memo to Council
18	Receive and File Monterey Road Configuration Project from Pasadena Avenue to Fair Oaks Avenue	Larry Abelson, South Pasadena Resident	Email to Council
18	Receive and File Monterey Road Configuration Project from Pasadena Avenue to Fair Oaks Avenue	Ron Rosen, South Pasadena Resident	Email to Council
18	Receive and File Monterey Road Configuration Project from Pasadena Avenue to Fair Oaks Avenue	Joanne Nuckols, South Pasadena Resident	Email to Council

18	Receive and File Monterey Road Configuration Project from Pasadena Avenue to Fair Oaks Avenue	Wes Reutimann, Project Director, BikeSGV	Handout, US Department of Transportation Federal Highway Administration Road Diet Case Studies
19	Adoption of a Resolution Modifying the Two Hour Parking Restriction to Four Hours Every Day at the City Owned Parking Lot Located at Hope Street and Mound Avenue	Linda Krausen, South Pasadena Resident	Email to Council
19	Adoption of a Resolution Modifying the Two Hour Parking Restriction to Four Hours Every Day at the City Owned Parking Lot Located at Hope Street and Mound Avenue	John Vandercook, Business Owner	Email to Council



# Op-Ed Why L.A. is right to replace Columbus Day with Indigenous Peoples Day



Children listen as L.A. Councilman Mitch O'Farrell, who is a member of the Wyandotte Native American Tribe, makes an appeal concerning Native American Heritage Month at City Hall on Nov. 4, 2016. (Los Angeles Times)

















City of South Pasadena

**FREE EVENT**

# Halloween SPOOKTACULAR



**Friday, October 27, 2017**

**5:30pm - 8:00pm**

**Orange Grove Park**

**815 Mission St**

**South Pasadena**

Pre-registration is not required.  
Contact the Recreation Division  
(626) 403-7380 or visit  
[southpasadenaca.gov/events](http://southpasadenaca.gov/events)  
for more information.

**GAMES • FOOD • INELATABLES • AND MORE!**

Community Services Department | Recreation Division



# Garfield Reservoir Open House & Water Facility Tour

Please plan to attend the Garfield Reservoir Open House and the South Pasadena Water Facility Tour on **Saturday October 21, 2017!**

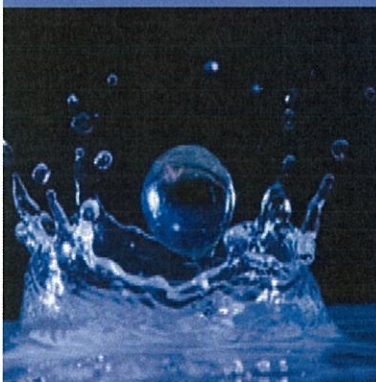
## Garfield Reservoir Open House

Time: 10:00 am to 11:00 am

Where: Garfield Reservoir  
416 Garfield Ave

## Water Facility Tour

The tour will leave from  
Garfield Reservoir at 11:00 am  
and return at 1:00 pm



For further information, please contact the  
Public Works Department at 626-403-7240  
[www.ci.south-pasadena.ca.us/waterandsewerrates](http://www.ci.south-pasadena.ca.us/waterandsewerrates)







# SR-710 North: Measure R Project List

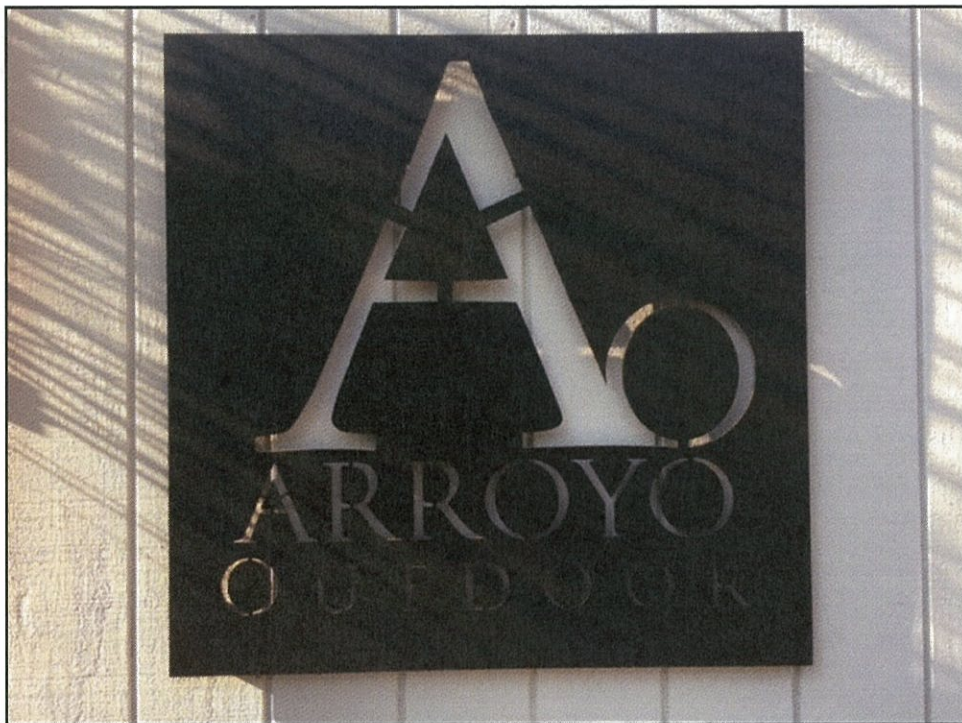
- Metro Board Decision
  - Adoption of the Transportation System Management/Transportation Demand Management Alternative
  - Approximately \$1 billion available in Measure R, State, and Federal Funding for transportation improvement projects
- Special City Council Meeting  
**Tuesday, November 21, 2017 at  
7:00 p.m. in the City Council Chamber**

*Come learn about the  
proposed project list and  
provide public input*



ARROYO OUTDOOR  
MERCHANT MINUTE  
Additional Material  
AGENDA ITEM # 8  
10 /18 /17 City Council Mtg.





ARROYO OUTDOOR  
10/18/17





## CITY OF SOUTH PASADENA

1414 MISSION STREET, SOUTH PASADENA, CA 91030

TEL: (626) 403-7230 ▪ FAX: (626) 403-7211

WWW.SOUTHPASADENACA.GOV

Date: October 16, 2017

TO: Mayor Cacciotti and City Council

FROM: Elaine Aguilar, Interim City Manager *EA*

VIA: Anthony J. Mejia, Chief City Clerk *AM*

SUBJECT: October 18, 2017 City Council Meeting Additional Document for Item No. 18 – Receive and File Monterey Road Configuration Project from Pasadena Avenue to Fair Oaks Avenue

---

Members of the public and City Council have requested clarification regarding the agendizing of this subject matter. Below is an excerpt of the City Council Minutes of September 6, 2017:

*“Mayor Pro Tem Schneider requested that the City Council agendize discussion of the Monterey Road lane reconfiguration, seconded by Councilmember Mahmud. In response to City Council inquiries, Planning and Building Director Watkins advised that the General Plan’s Circulation Element will include a Complete Streets Policy. Public Works Director Toor provided an update regarding the next phase of Monterey Road street improvements. Councilmembers Khubesian and Mahmud suggested that discussion of Monterey Road’s reconfiguration should wait until development of an overarching Complete Streets Policy. Councilmember Mahmud withdrew her second.”*

However, a portion of the discussion was inadvertently omitted from the final draft of the minutes. Below is a draft of the statement:

*“Following discussion, City Manager Aguilar suggested that the City Council agendize a general discussion regarding the appropriate timing to make a final determination regarding the Monterey Road lane reconfiguration. By consensus, the City Council agreed.”*

Although this verbiage was omitted from the minutes, City staff was aware of this direction and proceeded with agendizing this discussion for the City Council Meeting of October 18, 2017.

The City Clerk’s Division will agendize the correction to the minutes of September 6, 2017, for the next City Council Meeting.

*CC: Council; cm; CA; CCC; Reference Binder; Original to 10/18/17 Addl Docs*



Additional Material  
AGENDA ITEM # 18  
10/18/17 City Council Mtg.




# CITY OF SOUTH PASADENA


## INTER-OFFICE MEMORANDUM

---

**Date:** October 18, 2017

**To:** City Council

**Via:** Elaine Aguilar, Interim City Manager 

**From:** Paul Toor, Public Works Director 

**Re:** October 18, 2017 City Council Meeting Agenda Item No. 18 – Monterey Road Configuration Project from Pasadena Avenue to Fair Oaks Avenue

---

The purpose of this memorandum is to provide supplemental information from the Public Works Commission (PWC) Meeting of February 11, 2015, in reference to the Monterey Road Diet Traffic Study. The staff report submitted to City Council for the Meeting of October 18, 2017, did not include the recommendation of the PWC, which was inadvertently left out.

On February 11, 2015, the Deputy Public Works Director and City Traffic Engineer presented the findings of the micro simulation for the installation of road diet features on Monterey Road. The outcome of road diet simulation on Monterey Road provide benefits to pedestrian and bicycle modes of travel, divert traffic to smaller residential streets, and significantly increase traffic delays. The City Traffic Engineer recommended a pilot program for a road diet with pavement striping and marking legends, in case the City elects to proceed with the road diet option.

During Public Comments, several residents spoke in opposition of the installation of road diets. Other concerned residents supported the installation of road diets, a pilot program, and traffic signal synchronization.

Upon closing the Public Comment period, the PWC discussed the findings presented by staff and took into consideration the resident concerns. The PWC motioned to proceed with ADA - compliant sidewalk improvements on Monterey Road, designate El Centro Avenue as a bicycle route with sharrow markings from Orange Grove Avenue to Brent Avenue, not to proceed with a road diet or related pilot program on Monterey Road due to traffic safety and other impacts with the Gold Line rail crossings and diversion of traffic onto local streets, and proceed with traffic safety and traffic flow improvements on Monterey Road previously recommended by the PWC.

Attached: Public Works Commission Minutes of February 11, 2015

CC: Council; CM; CA; CCC; PW; Reference Binder; Original to 10/18/17 Addl Docs

Additional Material  
AGENDA ITEM # 18  
10 / 18 / 17 City Council Mtg.



**MINUTES OF THE  
PUBLIC WORKS COMMISSION  
11<sup>TH</sup> DAY OF FEBRUARY, 2015 AT 7:00 P.M. AT THE  
AMEDEE O. "DICK" RICHARDS, JR., COUNCIL CHAMBERS  
1424 MISSION STREET**

**1. CALL TO ORDER/ROLL CALL**

The meeting was called to order at 7:00p.m. by Chair Granath. Present were Commissioner Abelson, Vice Chair Fisher, Commissioner Glauz, Commissioner Pendo and Council Liaison Schneider. Staff present: Deputy Public Works Director Shin Furukawa and Public Works Assistant Leaonna DeWitt.

**2. PLEDGE OF ALLEGIANCE**

Commissioner Glauz led the pledge of allegiance.

**3. APPROVAL OF MINUTES – Meeting of January 14, 2015.**

Minutes approved as amended. (Abelson, Glauz 5-0)

**4. PUBLIC COMMENTS – Items not on the agenda**

No public comment.

**5. COUNCIL LIAISON COMMENTS**

Council Liaison Schneider is pleased to be the liaison to the Commission.

**6. STAFF COMMENTS**

Deputy Public Works Director Furukawa thanked Chair Granath and Vice Chair Fisher for attending the Citizen's Strategic Planning workshop on Saturday, February 7, 2015.

**7. DISCUSSION/ACTION ITEMS:**

**A. Monterey Rd. Road Diet Traffic Study**

Deputy Public Works Director Furukawa presented a brief overview of the Monterey Rd. Road Diet traffic study conducted by Minagar & Associates. The study identifies two alternatives: 1) a road diet for the entire corridor from Pasadena Avenue to Fair Oaks Avenue and 2) same as alternative one, but excludes the segment of Orange Grove Avenue to Meridian Avenue. While a road diet will have benefits for other modes of travel (bicycle and pedestrian), the simulation performed by Minagar & Associates indicates that a road diet will significantly increase traffic delays.

Consulting City traffic engineer Fred Minagar introduced himself and discussed the Monterey Rd. Road Diet Traffic Study, accompanied by a micro simulation presentation. The micro simulation incorporates the proposed signalized intersection at Orange Grove Ave, assuming it will be completed in 2016; and the Gold Line Rail system. Mr. Minagar recommends a trial installation of one of the proposed road diets concepts by temporarily re-striping the pavement markings along select portions of Monterey Road.

Chair Granath opened the meeting for Public Comment.

Bill Suter - 1319 Via Del Rey. Mr. Suter indicated opposition to a road diet on Monterey Road.



Shlomo Nitzani – 1107 Fair Oaks #433. Mr. Nitzani indicated opposition to a road diet on Monterey Road.

Kathy Green – 867 Monterey Road. Ms. Green indicated support of a pilot program.

Ron Rosen - 901 Wolford Lane. Mr. Rosen indicated opposition to a road diet on Monterey Road.

Andy Au – 858 Lyndon Street. Mr. Au indicated support of synchronized signals and trial striped lanes.

Tom Dolan – 1756 Las Palmitas. Mr. Dolan indicated opposition to a road diet on Monterey Road.

Barbara Sinclair – 706 Flores De Oro. Ms. Sinclair indicated opposition to a road diet on Monterey Road.

Gretchen Robinette – 921 Indiana Avenue. Ms. Robinette indicated opposition to a road diet on Monterey Road.

Jose Zavala – 381 Monterey Road. Mr. Zavala indicated support of a trial road diet on Monterey Road.

Glenn Eddy – 844 Monterey Road. Mr. Eddy indicated support of making Monterey Road more convenient for pedestrians and bicyclists.

Al Benzoni – 1617 Monterey Road. Mr. Benzoni commented on updating the General Plan.

Mr. Dong – 1205 Orange Grove. Mr. Dong inquired about the trial road diet on Monterey Road.

Public Comment period closed.

Commissioner Glauz expressed concern with unsynchronized traffic signals on Monterey Road and traffic delays causing traffic intrusion to side streets. Commissioner Glauz commented the City has already experienced road diets on Orange Grove Avenue to Columbia and on Fair Oaks Avenue with the elimination of right turn lanes.

Fred Minagar explained the differences between traffic signalization and traffic calming.

Chair Granath commented the need to accommodate bicyclists, but narrowing down the highway will be difficult. Chair Granath suggested moving forward with ADA requirements on the sidewalks.

Commissioner Abelson expressed concern with congestion on arterials and diversion of traffic to smaller residential streets, which contradicts the strategic goals recommended by the Commission. Commissioner Abelson recommended investigating other signage or road markings options to address any concerns regarding bicycle safety.

Commissioner Fisher expressed concerns with increased delays on Monterey Road and queuing at the Gold Line crossing.

A motion was made to recommend to City Council to: 1) proceed with ADA compliant sidewalk improvements on Monterey Road; 2) designate El Centro Avenue as a bike route with sharrow

markings from Orange Grove Avenue to Brent Avenue; 3) not proceed with a road diet or related pilot program on Monterey Road due, among the other concerns raised during the hearing, traffic safety and other impacts with the Gold Line rail crossings and diversion of traffic onto local streets; and 4) proceed with traffic safety and traffic flow improvements on Monterey Road previously recommended by this Commission. (Fisher, Abelson 5-0)

**B. Designation of Commission Secretary**

Deputy Public Works Director Furukawa briefly introduced the item.

A nomination was made by Chair Granath to designate Commissioner Abelson as Secretary, seconded by Commissioner Glauz. The motion passed unanimously. Absent: Pendo

**C. Capital Improvement Project Update**

Deputy Public Works Director Furukawa gave a brief update on the current Capital Improvement Projects.

**8. COMMISSIONER COMMENTS**

Commissioner Abelson requested to agendaize an item for discussion regarding closing certain local streets during the Rose Parade.

**9. ADJOURNMENT**

Vice Chair Granath declared the meeting adjourned at 9:52p.m.

I HEREBY CERTIFY that the foregoing minutes were adopted by the Public Works Commission of the City of South Pasadena at a meeting held on February 11, 2015.

AYES: 5

NOES:

ABSENT:

ABSTAIN:



Clinton Granath, Chair

2/14/15



**Desiree Jimenez**

---

**From:** Anthony Mejia  
**Sent:** Tuesday, October 17, 2017 2:02 PM  
**To:** City Clerk's Division  
**Subject:** Fwd: October 18, 2017 City Council Meeting - Agenda Item 18  
**Attachments:** PWC 021115 Minutes.pdf; ATT00001.htm

Anthony J. Mejia, MMC  
Chief City Clerk

Sent from my iPhone

Begin forwarded message:

**From:** Elaine Aguilar <eaguilar@southpasadenaca.gov>  
**Date:** October 17, 2017 at 2:01:31 PM PDT  
**To:** Lucy Demirjian <ldemirjian@southpasadenaca.gov>, Anthony Mejia <AMejia@southpasadenaca.gov>  
**Subject:** FW: October 18, 2017 City Council Meeting - Agenda Item 18

-----Original Message-----

From: Abelson, Larry [REDACTED]  
Sent: Tuesday, October 17, 2017 11:55 AM  
To: Michael Cacciotti - Personal; Diana Mahmud; Marina Khubesrian; Bobby; Dr. Richard Schneider - Personal  
Cc: Elaine Aguilar; Paul Toor  
Subject: October 18, 2017 City Council Meeting - Agenda Item 18

Honorable Mayor Cacciotti and Members of the City Council,

I am writing with regard to item no. 18 on the agenda for your meeting tomorrow night, curiously entitled "Receive and File Monterey Road Configuration Project from Pasadena Avenue to Fair Oaks Avenue." I have a number of procedural and substantive concerns with this item of which I would like to make you aware. As I have repeatedly advised staff, it is my goal that proceedings are held and decisions are made with full transparency, public participation, and inclusion and consideration of all of relevant facts and data (not just those that favor one position or another). Unfortunately, time and again, we see that these goals are disregarded. While I have my suspicions on the reasons (and I am far from alone in this regard), I feel it is important to stick to the issue at hand. I have been out of town for a number of days, so I apologize for not sending this to you sooner. In addition, I will have to be uncharacteristically brief due to the press of a number of other matters at home and work and in the community which also need my attention.

1. The staff report for this item completely ignores the actions taken by the Public Works Commission ("PWC") in early 2015 in response to the Minagar Report included in your agenda

packet. This is especially disturbing, considering that at least one of the staff members who prepared the report is well aware of these findings and recommendations but for some reason completely disregarded them and elected to omit them from the report and instead include selected excerpts of the Minagar report, including proposals which have been rejected by the PWC. So that you have more (but still not all) of the critical information you need in order to consider what staff appears to be proposing, I have attached a copy of the minutes of the 2/11/15 PWC meeting. The PWC's discussion of the road diet traffic study begins in the middle of the first page and concludes at the top of the third page. These minutes also reflect that a number of South Pasadena residents came to the meeting to speak out in objection to the proposed road diet. The members of the PWC also expressed concerns regarding the study and the proposal. The PWC ultimately made four recommendations, two of which are critical to this agenda item:

(i) "not proceed with a road diet or related pilot program on Monterey Road due [to], among the other concerns raised during the hearing, traffic safety and other impacts with the Gold Line rail crossings and diversion of traffic onto local streets"; and

(ii) "proceed with traffic safety and traffic flow improvements on Monterey Road previously recommended to this Commission." At that time, the PWC had recommended a number of such improvements for Monterey Road, but none had been implemented. Now, some have been installed (left-turn lanes on Monterey at Meridian, left-turn arrow for westbound Monterey at Via del Rey, median modifications on westbound Monterey at Pasadena to extend left turn lane), while a number of others have not (new traffic signal at Monterey/Orange Grove [progressing way too slowly, as accidents continue to occur at this location], median modifications on westbound Monterey at Via del Rey to extend left turn lane [to be implemented with pending resurfacing project], and prohibition of left turns from Monterey onto Diamond during weekday peak hours).

Despite the passage of over 2-1/2 years, the PWC's recommendation regarding the proposed road diet was never brought to this Council.

2. As reflected above, the PWC is opposed to proceeding with any additional waste of City resources or funds pursuing a road diet for Monterey Road, including pursuing what is referred to in the staff report (and which I learned from the first time while reading it) grant funding opportunities designed to implement any recommendation that furthers this flawed proposal (see top of page 18-3 of your agenda packet). I am not aware of any authority granted to staff by the Council or any suggestions or recommendations by the PWC or any other commission to pursue any grants in furtherance of the road diet.

3. Ron Rosen was kind enough to share a copy of his letter sent to you yesterday (10/16/17) on this agenda item. I agree with and support his objections and concerns.

4. This item should not even have been placed on the agenda, as it is my understanding that Councilmember Schneider ultimately did not receive a second when he made this request. Accordingly, the staff report is inaccurate in that regard as well.

Based on the above, I request that you deny staff's request to receive and file this incomplete and inaccurate report, direct staff to revise the report to more fully and accurately represent the facts, developments and recommendations of the PWC relating to this issue, and, most importantly, direct staff not to make any requests or pursue any grants relating to any work, projects or studies in furtherance of the proposed road diet, including but not limited to any "microsimulation



study" and the Minagar recommendations set forth at the bottom of page 18-1 and the top of page 18-2 of your agenda packet.

Thank you for your time, attention and consideration of this important matter. If you have any questions or wish to discuss further, please do not hesitate to contact me.

Larry Abelson

-----

**IMPORTANT NOTICE:** This message is intended only for the addressee and may contain confidential, privileged information. If you are not the intended recipient, you may not use, copy or disclose any information contained in the message. If you have received this message in error, please notify the sender by reply e-mail and delete the message.

**MINUTES OF THE  
PUBLIC WORKS COMMISSION  
11<sup>TH</sup> DAY OF FEBRUARY, 2015 AT 7:00 P.M. AT THE  
AMEDEE O. "DICK" RICHARDS, JR., COUNCIL CHAMBERS  
1424 MISSION STREET**

**1. CALL TO ORDER/ROLL CALL**

The meeting was called to order at 7:00p.m. by Chair Granath. Present were Commissioner Abelson, Vice Chair Fisher, Commissioner Glauz, Commissioner Pendo and Council Liaison Schneider. Staff present: Deputy Public Works Director Shin Furukawa and Public Works Assistant Leaonna DeWitt.

**2. PLEDGE OF ALLEGIANCE**

Commissioner Glauz led the pledge of allegiance.

**3. APPROVAL OF MINUTES – Meeting of January 14, 2015.**

Minutes approved as amended. (Abelson, Glauz 5-0)

**4. PUBLIC COMMENTS – Items not on the agenda**

No public comment.

**5. COUNCIL LIAISON COMMENTS**

Council Liaison Schneider is pleased to be the liaison to the Commission.

**6. STAFF COMMENTS**

Deputy Public Works Director Furukawa thanked Chair Granath and Vice Chair Fisher for attending the Citizen's Strategic Planning workshop on Saturday, February 7, 2015.

**7. DISCUSSION/ACTION ITEMS:**

**A. Monterey Rd. Road Diet Traffic Study**

Deputy Public Works Director Furukawa presented a brief overview of the Monterey Rd. Road Diet traffic study conducted by Minagar & Associates. The study identifies two alternatives: 1) a road diet for the entire corridor from Pasadena Avenue to Fair Oaks Avenue and 2) same as alternative one, but excludes the segment of Orange Grove Avenue to Meridian Avenue. While a road diet will have benefits for other modes of travel (bicycle and pedestrian), the simulation performed by Minagar & Associates indicates that a road diet will significantly increase traffic delays.

Consulting City traffic engineer Fred Minagar introduced himself and discussed the Monterey Rd. Road Diet Traffic Study, accompanied by a micro simulation presentation. The micro simulation incorporates the proposed signalized intersection at Orange Grove Ave, assuming it will be completed in 2016; and the Gold Line Rail system. Mr. Minagar recommends a trial installation of one of the proposed road diets concepts by temporarily re-striping the pavement markings along select portions of Monterey Road.

Chair Granath opened the meeting for Public Comment.

Bill Suter - 1319 Via Del Rey. Mr. Suter indicated opposition to a road diet on Monterey Road.



Shlomo Nitzani – 1107 Fair Oaks #433. Mr. Nitzani indicated opposition to a road diet on Monterey Road.

Kathy Green – 867 Monterey Road. Ms. Green indicated support of a pilot program.

Ron Rosen - 901 Wolford Lane. Mr. Rosen indicated opposition to a road diet on Monterey Road.

Andy Au – 858 Lyndon Street. Mr. Au indicated support of synchronized signals and trial striped lanes.

Tom Dolan – 1756 Las Palmitas. Mr. Dolan indicated opposition to a road diet on Monterey Road.

Barbara Sinclair – 706 Flores De Oro. Ms. Sinclair indicated opposition to a road diet on Monterey Road.

Gretchen Robinette – 921 Indiana Avenue. Ms. Robinette indicated opposition to a road diet on Monterey Road.

Jose Zavala – 381 Monterey Road. Mr. Zavala indicated support of a trial road diet on Monterey Road.

Glenn Eddy – 844 Monterey Road. Mr. Eddy indicated support of making Monterey Road more convenient for pedestrians and bicyclists.

Al Benzoni – 1617 Monterey Road. Mr. Benzoni commented on updating the General Plan.

Mr. Dong – 1205 Orange Grove. Mr. Dong inquired about the trial road diet on Monterey Road.

Public Comment period closed.

Commissioner Glauz expressed concern with unsynchronized traffic signals on Monterey Road and traffic delays causing traffic intrusion to side streets. Commissioner Glauz commented the City has already experienced road diets on Orange Grove Avenue to Columbia and on Fair Oaks Avenue with the elimination of right turn lanes.

Fred Minagar explained the differences between traffic signalization and traffic calming.

Chair Granath commented the need to accommodate bicyclists, but narrowing down the highway will be difficult. Chair Granath suggested moving forward with ADA requirements on the sidewalks.

Commissioner Abelson expressed concern with congestion on arterials and diversion of traffic to smaller residential streets, which contradicts the strategic goals recommended by the Commission. Commissioner Abelson recommended investigating other signage or road markings options to address any concerns regarding bicycle safety.

Commissioner Fisher expressed concerns with increased delays on Monterey Road and queuing at the Gold Line crossing.

A motion was made to recommend to City Council to: 1) proceed with ADA compliant sidewalk improvements on Monterey Road; 2) designate El Centro Avenue as a bike route with sharrow

markings from Orange Grove Avenue to Brent Avenue; 3) not proceed with a road diet or related pilot program on Monterey Road due, among the other concerns raised during the hearing, traffic safety and other impacts with the Gold Line rail crossings and diversion of traffic onto local streets; and 4) proceed with traffic safety and traffic flow improvements on Monterey Road previously recommended by this Commission. (Fisher, Abelson 5-0)

**B. Designation of Commission Secretary**

Deputy Public Works Director Furukawa briefly introduced the item.

A nomination was made by Chair Granath to designate Commissioner Abelson as Secretary, seconded by Commissioner Glauz. The motion passed unanimously. Absent: Pendo

**C. Capital Improvement Project Update**

Deputy Public Works Director Furukawa gave a brief update on the current Capital Improvement Projects.

**8. COMMISSIONER COMMENTS**

Commissioner Abelson requested to agendaize an item for discussion regarding closing certain local streets during the Rose Parade.

**9. ADJOURNMENT**

Vice Chair Granath declared the meeting adjourned at 9:52p.m.

I HEREBY CERTIFY that the foregoing minutes were adopted by the Public Works Commission of the City of South Pasadena at a meeting held on February 11, 2015.

AYES: 5  
NOES:  
ABSENT:  
ABSTAIN:



Clinton Granath, Chair

3/16/15



City Council:

Item 18 on the October 18, 2017 agenda asks the Council to receive and file a report regarding the reconfiguration of Monterey Road. The report should not be received and filed because it contains flawed logic, false conclusions, and glaring omissions.

The memo from staff from pages 18-1 to 18-3 of the packet is misleading. On page 18-2 under "Analysis" the memo says that FTC, PWC, and the Ad Hoc DAG reached consensus on September 4 on various proposals including 4-foot sidewalks and bicycle lanes.

It is an unfortunate reality of Monterey Road that there cannot be 4-foot sidewalks and bicycle lanes without a road diet. On February 11, 2015, the PWC unanimously rejected the road diet proposal. It's a great distortion for City Staff to quote a September 4, 2013 memo saying that there's consensus on certain proposals that require a road diet, when the PWC rejected the road diet proposal in 2015. This is extremely troublesome. But it's not surprising because at least one Councilmember and some on City staff have been publicly ignoring the PWC's decision rejecting the road diet since it occurred in 2015. One wonders why City staff continues to selectively present data that appears to favor a road diet. City staff works for the entire citizenry. As I talk to people around town, it appears that 80%-90% of the citizens who learn about the road diet oppose it.

On pages 18-6 to 18-8 is the now-outdated September 4, 2013 memo from Paul Toor. The memo discusses the conclusions of the Monterey Road Committee (the Committee). The Committee consisted of citizens. It did not have any particular expertise, and it did not have a traffic study. Essentially, it was a group of people brain-storming ideas. As the memo states, the Committee was evenly divided on whether there should be a road diet on Monterey Road. Evenly divided means that with regard to a road diet, the Committee decided nothing.

The Committee offered several other recommendations, including 4'-wide sidewalks, and Class II Bicycle lanes. Both of these recommendations require a road diet. The fact that these memos don't seem to recognize the contradiction between recommendations that require a road diet, and the fact that the Committee deadlocked on the road diet question is troubling. It makes one wonder what the Committee was thinking. It certainly can't be said that a Committee that couldn't decide whether to have a road diet could be serious about simultaneous recommendations that require a road diet. I don't know what the votes were on these issues at the Committee, but the contradictory conclusions make one wonder what the Committee and its consultants were thinking. Nowhere does City staff point out the internally flawed logic in the Committee's suggestions. Instead, City staff continues to point to the Committee's illogical recommendations, as if they should be taken seriously.

ROSEN  
Additional Material  
AGENDA ITEM # 18  
10/18/17 City Council Mtg.

CC: Council; CM; CA; CCC; PW; Reference Binder; Original to 10/18/17 Addl Docs



Next in the packet at page 18-9 is the report of Fehrs & Peters about the Citizen's Committee's work. The report maintains the same logical flaw: The Committee never agreed that there should be a road diet, but made several recommendations that require a road diet. (By way of analogy: It's as if the City Council passed a resolution to build a building, but then failed to pass a resolution to obtain the land on which to put the building. How seriously then can we take the resolution to build the building?) One wonders why Fehrs & Peters failed to grasp this problem. But the bottom line is that all this verbiage about the Committee should count for very little when it comes to a road diet. It cannot be stressed enough that the Committee made no decision regarding a road diet and anyone who tries to use the Committee's conclusions in supporting a road diet is not being intellectually honest. The Fehrs & Peters report should not be taken seriously in support of a road diet.

The next item in your packet at Page 18-41 is the Traffic Study by Minagar. Although Minagar concluded that a road diet was feasible, there are serious problems with the Minagar study. Those problems need to be resolved before road diet is ever instituted. Minagar found that even without a road diet, several intersections on Monterey Road are already over saturated with traffic during peak hours. Traffic will only get worse with a road diet. Even Minagar suggested that if a road diet were instituted, it should only be on a temporary trial basis.

On February 11, 2015, Minagar appeared before the PWC. He was thoroughly questioned by the Commission members, including three engineers, one of whom is John Fisher, former Deputy Chief Traffic Engineer for the City of Los Angeles. The PWC had serious problems with Minagar's conclusions and determined by a 5-0 vote that there should be no road diet on Monterey Road. I have a recording of that meeting. Every Councilmember should obtain a copy of that recording and listen to it. The conclusions of the PWC should be reduced to writing and should be filed as a report with City Council if this has not already been done.

One of the greatest flaws of the Minagar Report that was of concern to the PWC, is that it failed to consider the effect of the three Gold Line crossings on a road diet. Although the Gold Line is mentioned numerous times in the report, the unique problems created by the Gold Line crossings are never addressed. In literature regarding road diets, including a document provided to me by Councilmember Schneider, you will find that rail crossings present special problems for road diets. Because Minagar does not address these problems, for that reason alone the report is seriously flawed. The problem is that when vehicles cross railroad tracks either entering or exiting a street with a road diet, there needs to be an extra traffic lane to make sure that cars can clear the area. For example, if cars are westbound on Monterey at Orange Grove and turning right, there needs to be a second westbound lane so cars don't back up on Monterey as they wait for the train to pass, holding back all the cars behind them. Likewise, cars attempting to enter Monterey after crossing the tracks need a



second lane so that they can actually get across the tracks and onto Monterey. If there is only one lane, as with a road diet, cars will have a difficult time entering Monterey and will back up on Orange Grove, causing great danger that cars will be stuck on the tracks as a train approaches.

What this means is there cannot be only one traffic lane adjacent to Orange Grove or adjacent to Indiana because of the Gold Line tracks. This significantly reduces the area that can even accommodate a road diet. So much for wider sidewalks and bicycle lanes. But Minagar never addresses this. Likewise, Minagar never seems to address the effect of the Gold Line crossing at Pasadena Avenue, which promises to receive more trains as time passes.

I'm sure there are other issues with the Minagar report. Commissioner John Fisher and other members of the PWC should be invited to address the City Council so they can answer questions about the flaws in the Minagar report and the problems with a road diet. It would be irresponsible to ignore their views and their expertise.

As mentioned above, on February 11, 2015, for several reasons, the PWC voted 5-0 to reject a road diet. It's appalling that the PWC's findings are never mentioned in your packet for Item 18. The PWC's findings are possibly the most significant findings to date regarding the road diet, yet City staff chose to ignore them in this report that it wants Council to receive and file. Unbelievable. Is this the way the road diet issue will be handled?

As I've pointed out to you before, there is some history here. On more than one occasion, the Public Works Director failed to mention the PWC's decision when discussing the road diet before Council and before a WISPPA meeting, although he mentioned the Citizen's Committee. Likewise a Councilmember did the same at a Council meeting in, I believe, April 2016. Only recently, after this pattern of ignoring the PWC's decision was pointed out, did the Council mention it. I find it very disturbing that two key players in the Monterey Road matter seem to have tried to ignore the PWC's findings.

For the reasons stated above, the Council should reject the report at Item 18 as inaccurate and containing incomplete and flawed data. A more complete and accurate report should be filed, one that doesn't ignore the PWC, and that notes the serious flaws in the Fehrs & Peters and Minagar reports.

A road diet on Monterey is simply a bad idea. There is no question that it will slow traffic on Monterey road and increase traffic on surrounding streets. Road diets may be useful for streets that have a large number of serious accidents. That's not the case here. Some believe that increasing traffic will cause people to drive less. Do you really think that a road diet on this short stretch of this major artery will get people out of their cars? It won't happen. Currently there are road diets in West Los Angeles that have the populace up in arms, and those

road diets don't have Gold Line issues. Luckily, they are painted on and not permanent.

Apparently, there is a large amount of Cal Trans money that was freed up when the 710 Freeway Connection was rejected. The City is charged with using that money to improve traffic flow. A road diet on Monterey will not improve traffic flow. Anyone who tells you otherwise is ignoring the facts.

Submitted by Ron Rosen  
901 Wolford Lane.



## Desiree Jimenez

---

**From:** Joanne Nuckols [REDACTED]  
**Sent:** Wednesday, October 18, 2017 1:42 PM  
**To:** Desiree Jimenez  
**Subject:** Agenda Item #17, Monterey Rd

Desiree, I just read the agenda and want to make a comment to the City Council about Monterey Rd. If you would pass along the following, I would appreciate it since I cannot attend the meeting tonight and speak to the issue.

Mayor Cacciotti and City Council,

I am very concern about the lack of attention being paid to Monterey Road as a complete street for all modes of travel, in particular pedestrians and bicyclists. We need to practice what we preach. Much more needs to be done than new paving for the safety of all.

As a walker for exercise with my partner, it's always very dismal trying to traverse that street walking or crossing. It is not ADA compliant, which it should be. Two people cannot walk down the street side by side without having to split or one go before the other.

Since Nelson Nygaard is working on 710 projects in the 710 corridor and the General Plan, and they are great problem solvers, I suggest that they be consulted to move forward with some sort of creative solution.

Thank you for your consideration.

Joanne Nuckols

*CC: Council; CM; CA; CCC; FW; Reference Binder; Original to 10/18/17 Addl Docs*

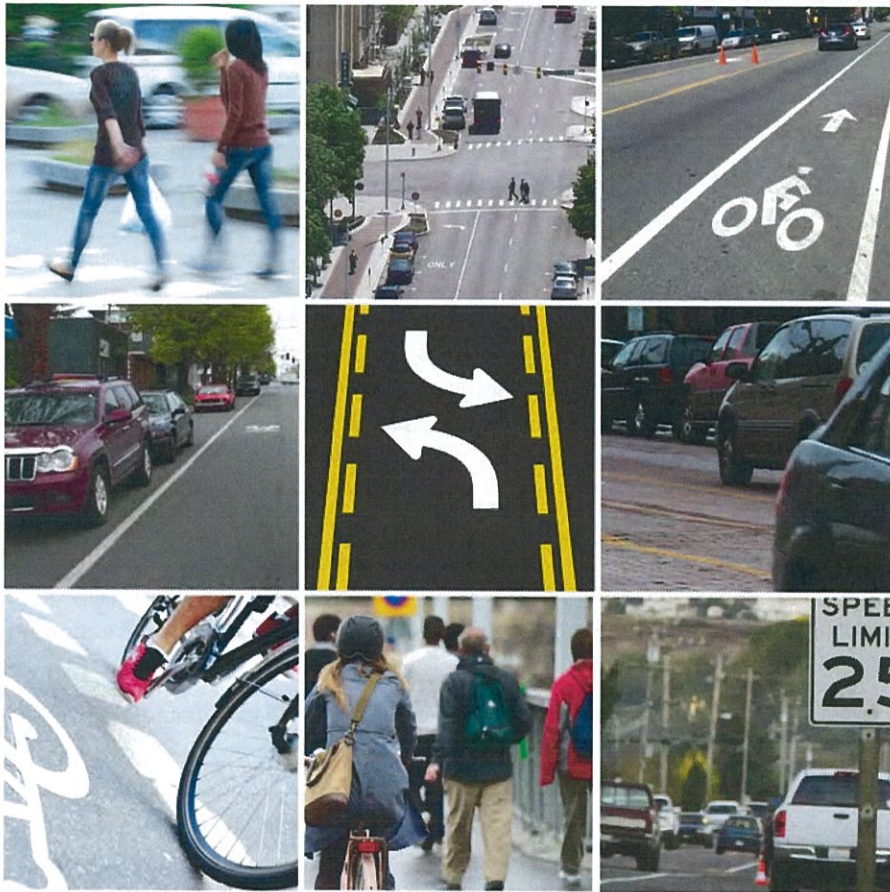


U.S. Department of Transportation  
Federal Highway Administration



Safe Roads for a Safer Future  
*Investment in roadway safety saves lives*

# ROADDIET



## CASE STUDIES

Wesley Reutimann  
Additional Material  
AGENDA ITEM # 18  
10/18/17 City Council Mtg.





# INTRODUCTION

## BACKGROUND

---

Four-lane undivided highways have a history of increased crashes as traffic volumes rise, due to motorists sharing the inside lane for higher speed through movements and left turns. Additionally, as active transportation increases, communities desire more livable spaces, pedestrian and bicycle facilities, and transit options, which are not easily accommodated by a 4-lane undivided roadway. One solution that benefits all modes is a Road Diet (Roadway Reconfiguration).

A Road Diet is generally described as removing vehicle lanes from a roadway and reallocating the extra space for other uses or travelling modes, such as parking, sidewalks, bicycle lanes, transit use, turn lanes, medians or pedestrian refuge islands.

Road Diets have the potential to improve safety, provide operational benefits, and increase the quality of life for all road users. Road Diets can be relatively low cost if planned in conjunction with reconstruction or resurfacing projects since applying Road Diets consists primarily of restriping.

For additional information about Road Diets, visit the FHWA Office of Safety Road Diets website at [http://safety.fhwa.dot.gov/road\\_diets](http://safety.fhwa.dot.gov/road_diets).

## ROAD DIET CASE STUDIES

---

Improving safety is a top priority for the U.S. Department of Transportation, and the Federal Highway Administration (FHWA) remains committed to reducing highway fatalities and serious injuries on our Nation's roadways through the use of proven safety countermeasures, including Road Diets. Along with the development of the Road Diet Informational Guide, the FHWA Office of Safety commissioned a series of 24 case studies highlighting Road Diet implementations throughout the United States. The aim of this document is to provide State and local agencies and Tribal governments with examples and advice that can assist them in planning and implementing Road Diets in their own jurisdictions.

Many of the concepts described in this publication are illustrated in photographs and drawings. The drawings are for illustrative purposes only; they are not to scale and should not be used for design purposes. It is important to note that the lettering styles, arrows and symbols used in these case studies are not always consistent with those prescribed in the Manual on Uniform Traffic Control Devices (MUTCD). When employing treatments included in the case studies, only MUTCD-approved lettering styles, arrows and symbols should be used. Additionally, any highway agency wishing to implement a treatment that has not been included in the most recent edition of the MUTCD must request experimentation approval from the FHWA.



## Road Diet Case Studies - Introduction

Agency	Location	Title	Key Focus of the Case Study
Genesee County Metropolitan Planning Commission	Genesee County, Michigan	Communities Embrace Widespread Road Diet Use	Assessment and ranking of all 4-lane roads to determine Road Diet potential
City of Grand Rapids	Division Street Grand Rapids, Michigan	Livability Improves as Number of Lanes Decreases	Trial-basis Road Diet; highlights the positive outcomes and trade-offs of Road Diets
City of Grand Rapids	Burton Street Grand Rapids, Michigan	Road Diet and Transit Working Together	Traffic congestion concerns; transit stops
City of Chicago	55th Street Chicago, Illinois	Road Diet Includes Parking-Separated Bicycle Lanes	Improving bicycle safety and connectivity while maintaining efficient bus operation
City of Chicago	Franklin Boulevard Chicago, Illinois	Road Diet Improves Bicycle Connectivity, Enhances Livability	Livability benefits; improving safety and mobility for bicyclists
City of Chicago	Wabash Avenue Chicago, Illinois	Capacity Improved After Road Diet	Before-and-after capacity analysis; buffered bicycle lanes; signal optimization
City of Pasadena	Cordova Street Pasadena, California	Road Diet Improves Multimodal Level of Service	Improvement in multimodal level of service; addressing speeding issues
City of Santa Monica	Ocean Park Boulevard Santa Monica, California	Road Diet Improves Safety Near School	Addressing safety issues near school
City of Los Angeles	Seventh Street Los Angeles, California	Road Diet: Key Ingredient in Los Angeles' Bicycle Master Plan	Improving bicycle mobility and encouraging bicycle ridership
Virginia Department of Transportation	Lawyers Road Reston, Virginia	All-Around Success for Safety and Operations	Community input and public perception survey; crash reduction; bicycle connectivity
Virginia Department of Transportation	Soapstone Drive Reston, Virginia	There's More Than One Way to Complete a Road Diet	Multiple configurations of Road Diets; crash reduction; bicycle connectivity
Virginia Department of Transportation	Oak Street Dunn Loring, Virginia	Improving Safety and Livability	Reducing aggressive driving behaviors; providing consistent lane configuration
City of Des Moines	Ingersoll Avenue Des Moines, Iowa	Temporary Road Diet Becomes Permanent	Trial-basis Road Diet; public perception survey
Regional Transportation Commission of Washoe County	Reno, Nevada	Educating the Public on Road Diets	Public outreach method for education on Road Diet projects
Regional Transportation Commission of Washoe County	California Avenue Reno, Nevada	A Feasibility Evaluation Using Traffic Simulation Software	Using traffic simulation software to determine feasibility of a Road Diet
Regional Transportation Commission of Washoe County	Wells Avenue Reno, Nevada	Road Diet Improves Safety for Motorized and Non-motorized Users	Evaluating the safety and operational effects of the Road Diet
New York City Department of Transportation	Luten Avenue Staten Island, New York	Safety Solution Near School is a Road Diet	Addressing safety issues near school; reducing speeds
New York City Department of Transportation	Ninth Avenue Manhattan, New York	Road Diet on One-Way Street Designed for All Users	One-way street; parking-separated bicycle path; bicycle signals; pedestrian refuge islands
New York City Department of Transportation	Empire Boulevard Brooklyn, New York	Road Diet Improves Pedestrian Safety	Increasing pedestrian safety; reducing speeds and calming traffic
New York City Department of Transportation	West Sixth Street Brooklyn, New York	NYCDOT Responds to Tragedy with Road Diet	Addressing pedestrian safety issues
Seattle Department of Transportation	Dexter Avenue Seattle, Washington	Two-Stage Road Diet	4-lane to 3-lane to 2-lane Road Diet; bus bulb-outs, buffered bicycle lanes; high bicyclist volume and bus ridership
Seattle Department of Transportation	Nickerson Street Seattle, Washington	Safety Improved & Extreme Speeding Virtually Eliminated	Reducing speeds; improving overall safety; pedestrian safety features
Seattle Department of Transportation	Stone Way Seattle, Washington	Despite Early Opposition, Road Diet Produces Great Results	Public sentiment on Road Diet project; increased bicycle use
City of Indianapolis	Indianapolis Cultural Trail Indianapolis, Indiana	Road Diets Lead to Economic Development	Public outreach, planning, and design; economic development success



## Genesee County, Michigan COMMUNITIES EMBRACE WIDESPREAD ROAD DIET USE

### OBJECTIVE

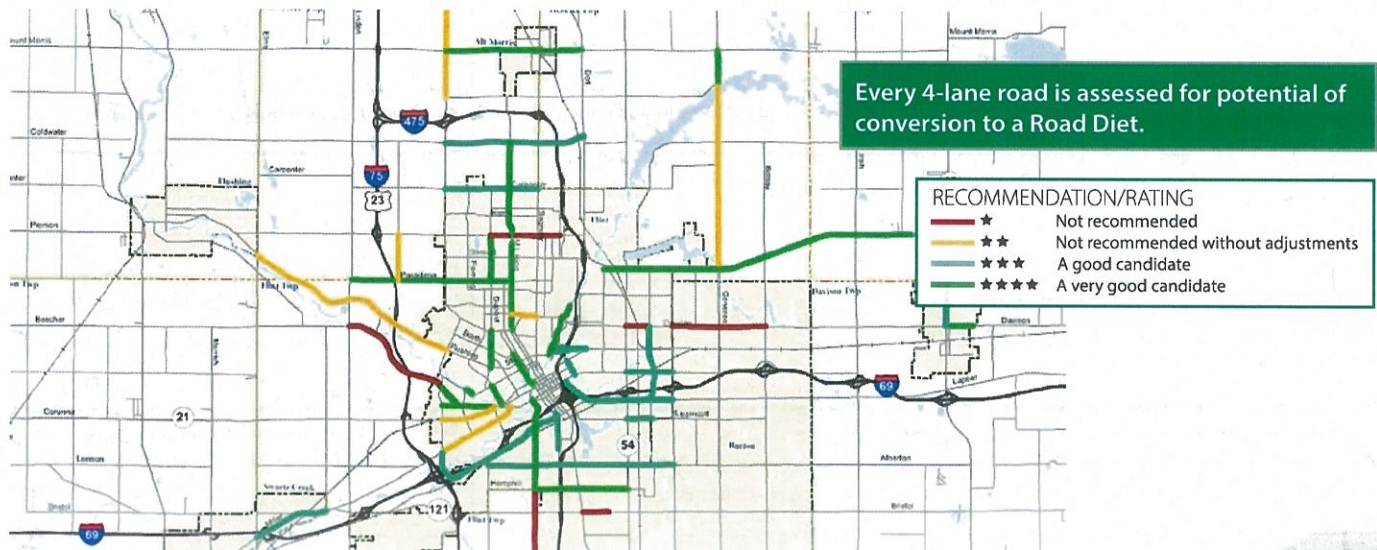
- Improve safety throughout county
- Encourage walking, bicycling, and transit use

### FEATURES

- Evaluation of 4-lane roads
- Stakeholder collaboration and planning
- Education on Road Diet benefits

### RESULTS

- Crash reduction
- Improved livability
- Community support



Since 2009, Road Diets have rapidly become culturally accepted in Michigan, and agencies are scouring their systems to identify which 4-lane roads are the best candidates for a Road Diet.

Genesee County Metropolitan Planning Commission (GCMPC), encompassing one county and 33 municipalities, has been both progressive and aggressive with Road Diet installations. Since the introduction of this safety treatment to the public, the GCMPC set out to make Road Diets a positive treatment in the community's eyes. The 4- to 3-lane Road Diet conversions in the county have been so successful that citizens now favor the 3-lane cross section where it is operationally feasible.



The GCMPC stated that...

**“Road Diets are seen as treatments that can be used to keep a downtown area ‘current’ and follow the national [livability] trends.”**



City of Clio

## BACKGROUND

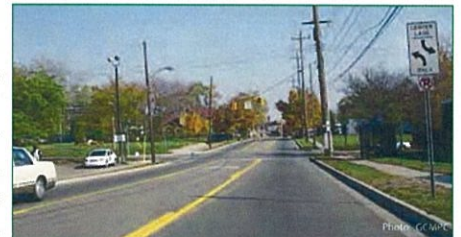
The real boost to widespread implementation of Road Diets in the region occurred in 2009 with the adoption of a Complete Streets program and completion of a technical study in which the GCMPC assessed every 4-lane road in its jurisdiction for potential of conversion to 3 lanes, ranking the desirability of each for Road Diet consideration.

In the beginning, routes with lower volumes (6,000 to 8,000 vehicles per day) were targeted in order to allow for easy conversion, and the results included immediate safety benefits. After several successful conversions with positive outcomes, GCMPC began selecting implementation sites with higher volumes – up to 15,000 vehicles per day.

GCMPC has encouraged local agencies in the county to try out a low-cost Road Diet by restriping existing 4-lane segments to three lanes as part of their ongoing restriping plans. After a trial period, if the conversion is not operating as desired or publicly accepted, the road can be restriped back to the original layout.

## STAKEHOLDER INVOLVEMENT, EDUCATION, AND BUY-IN

GCMPC uses an educational approach to gain public support for Road Diets. Selecting appropriate Road Diet locations within the county based on engineering studies is the first step. The GCMPC then approaches individual city agencies about the potential Road Diet corridor and educates the stakeholders on the benefits. This collaboration begins early in the planning process and continues through the Road Diet installation. Working together with these stakeholders gives a sense of project awareness and buy-in to all involved, and it helps to overcome obstacles that arise along the way, leading to smoother implementation.



5th Ave - City of Flint

## SAFETY

Road Diet installations have improved safety in Genesee County. Analyzing the traffic crash data from 1996 to 2007, the GCMPC completed a before-and-after safety study using seven Road Diet sites, with results showing an overall reduction of crashes.

Average Annual Crash Reduction Rates After Road Diets in Genesee County								
Crash Type	Davison Rd	Dupont St	Flushing/Fifth Ave	ML King Jr Blvd	Miller Rd	University Ave	Vienna Rd	OVERALL
Head-on	-17%	-31%	-100%	129%	-43%	-100%	-62%	-32%
Head-on Left Turn	-28%	-74%	-100%	-41%	-37%	-100%	-24%	-58%
Rear End	-16%	-54%	-29%	-46%	-29%	-53%	-21%	-35%
Rear End Left Turn	92%	-79%	-100%	-17%	-37%	-100%	-13%	-36%
Side Swipe Same Side	-18%	-56%	-48%	-42%	-15%	-31%	-20%	-33%
Side Swipe Opposite Side	-31%	-5%	-100%	-17%	-33%	-100%	-55%	-39%
All Non-alcohol & Non-deer	-16%	-47%	-42%	-38%	-23%	-35%	-26%	-32%



## Grand Rapids, Michigan – Division Street

### LIVABILITY IMPROVES AS NUMBER OF LANES DECREASES

#### OBJECTIVE

- Improve business environment, commercial activity, and sales
- Increase parking

#### FEATURES

- Trial basis Road Diet
- Solicited public feedback
- Commercial district with closely spaced traffic signals

#### RESULTS

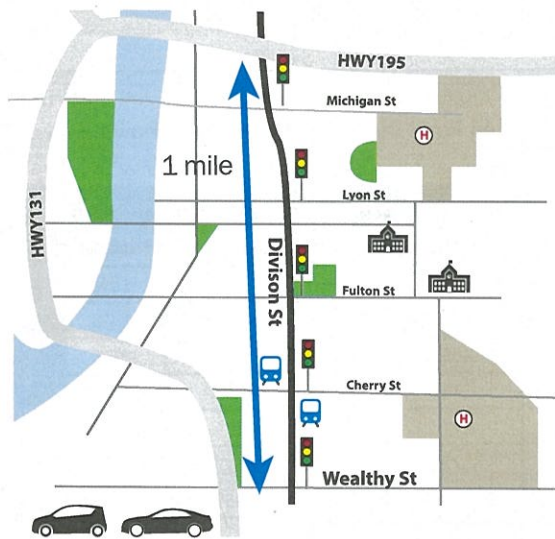
- Slower speeds
- Improved livability
- Increased travel times

## LIVABILITY

Tying the quality and the location of transportation facilities to opportunities such as access to good jobs, affordable housing, quality schools and safer streets.



*Division Street has on-street parking and signals at every intersection through downtown.*



15,000 vehicles per day

## BACKGROUND

The City of Grand Rapids has taken a holistic view of Road Diet implementations by identifying all 4-lane facilities within its jurisdiction, and then recording and tracking traffic volumes, corridor use, and the overall operation under existing conditions. The city recognizes the safety benefits of Road Diets and is aware of a roadway reconfiguration's potential effect on traffic operations. They also recognize that Road Diets can bring a higher quality of life for users and can encourage commercial activity and sales.

This approach led the City of Grand Rapids to install a Road Diet on Division Street, from I-196 to Wealthy Street. The roadway's cross section changed from four and five vehicle lanes to three lanes and a mixture of dedicated bicycle lanes and shared lanes. Although on-street parking already existed prior to the Road Diet, the reconfiguration allowed for additional parking spots.



### PUBLIC INVOLVEMENT

The city conducted two public meetings before this Road Diet was implemented to gain public support and to educate those who use the route. During these meetings, officials learned that citizens wanted the opportunity to try the Road Diet for a trial period and reconvene before implementing permanently.

*The city posted signs along the corridor to solicit feedback on the Road Diet project*



### RESULTS

After the Division Street Road Diet installation, the City of Grand Rapids reported that businesses along the corridor are generally happy with the project because of the perceived improvement in the quality of life attributes and livability of the community. A few residential facilities along Division Street that were previously unrented for 2 years have been rented after the Road Diet brought improved bicycle accessibility. The owner of those housing facilities believes that the bicycle enthusiasts who want to live along the corridor and bike to work have contributed to an overall increase in economic activity in the area.

One lesson the city learned from this project was the need to carefully evaluate the potential effects Road Diets could have on the reliability of transit schedules. Before installation, Division Street served as a local transit route. However, the bus company decided to relocate the route to another corridor after the Road Diet because of increased travel times.

Based on positive public feedback, the City of Grand Rapids ultimately chose to retain the Road Diet permanently. While the Road Diet project produced many positive outcomes, the project resulted in some negative aspects as well. The benefits and trade-offs are summarized in the following table.<sup>1</sup>

Positive Outcomes	Trade-offs
Increased parking	Increased delay
Decreased vehicle speeds (-1 to -4 mph)	Longer queues (i.e. Northbound increased from 81 feet before to 180 feet after in the PM)
Improved bicycle facilities (bike lanes/shared lanes)	Longer travel times (average increase of 19 to 52 seconds through corridor)
Reduction in head-on left turn (-38%)*, angle (-17%), and sideswipe crashes (-20%)	Rear-end crashes nearly tripled after installation.
Increased pedestrian/bicycle flow (+13% PM, +57% off-peak, and -14% AM)	Increased emissions (+19.8% AM, +1.1% off-peak, and -5.3% PM)
Decreased volumes (-18% to -29% north of Wealthy Street)	Diversion from the corridor

\* Calculated from data in the referenced Report (eight crashes before to five crashes after); this percentage varies from the percentage published in the Report table

<sup>1</sup> City of Grand Rapids, Michigan, "Revision Division Road Diet Traffic Impact Study: Final Report," February 2013.



## Grand Rapids, Michigan – Burton Street ROAD DIET AND TRANSIT WORKING TOGETHER

### OBJECTIVE

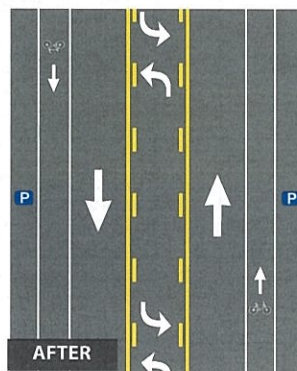
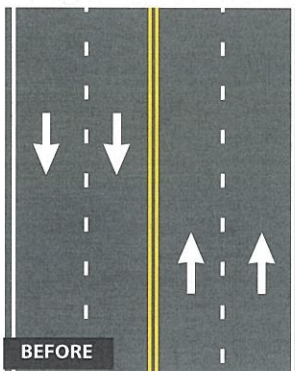
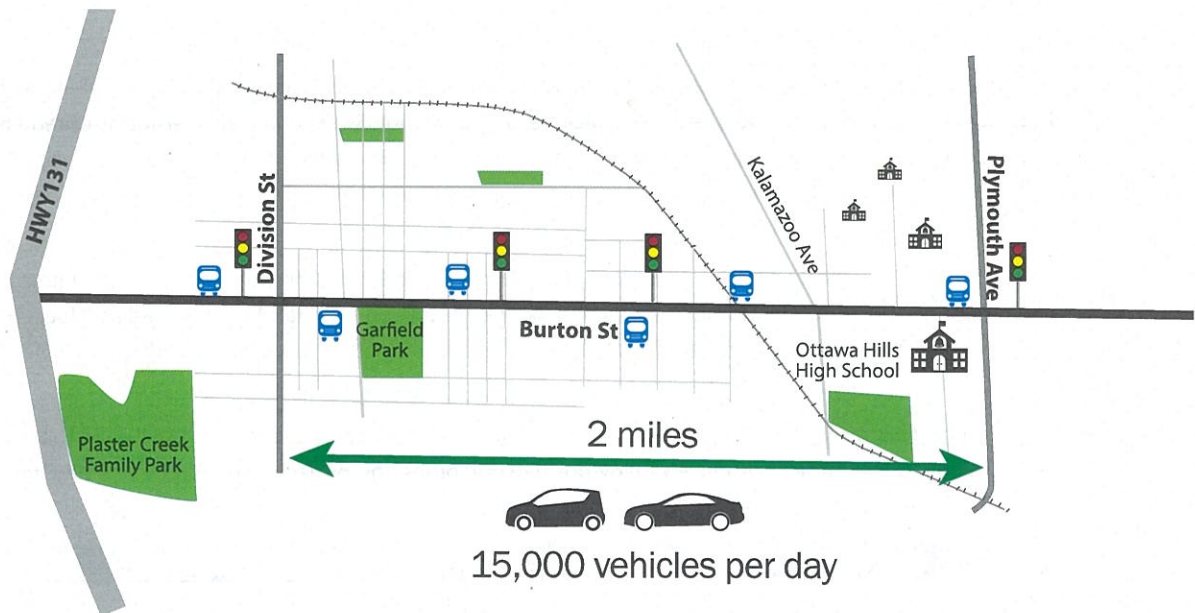
- Install bicycle lanes
- Improve safety
- Accommodate needs of school bus and transit bus stops

### FEATURES

- Several schools and a public park nearby
- Congestion concerns
- Frequent school buses and transit stops

### RESULTS

- Improved roadway for bicyclists
- Slower speeds
- Addressed transit needs and congestion concerns



### BACKGROUND

In 2012, the City of Grand Rapids, Michigan, installed a Road Diet on Burton Street stretching from Division Street to Plymouth Avenue. At just over 2 miles long with a mix of residential and commercial businesses, this segment of Burton Street experiences approximately 15,000 vehicles per day and is home to several schools and a public park. In addition to buses transporting students to school, a transit route also runs along this section.





**Public Opinion<sup>3</sup>**

**“I BELIEVE IN BOTH IMPROVING OUR ROAD’S SAFETY AND INCREASING THE BIKE FRIENDLINESS OF GRAND RAPIDS. THE BURTON ROAD DIET BRINGS THE BEST OF BOTH WORLDS”**

## TRAFFIC CONGESTION CONCERNS

Although recent Road Diets in Grand Rapids had proved successful, there were still apprehensions when the city announced the Burton Street Road Diet conversion. Opponents were worried that traffic congestion might occur as a result of the frequent stops of school and transit buses traveling within the corridor.<sup>1</sup> Residents in the area were also concerned about having sufficient gaps to turn onto Burton Street at stop-controlled intersections.

Rick DeVries, Assistant City Engineer, was well aware of the traffic congestion concerns brought to the city’s attention, “You try to balance what you’re trying to do safety-wise, and quality of life, with those kinds of concerns.”<sup>2</sup>

## A PRACTICAL COMPROMISE

The city needed a solution that addressed the concern that frequent bus stops might contribute to traffic congestion if Burton Street underwent a Road Diet. While transit stops are often equipped with bus pull-offs, transit providers in the area indicated they prefer to not remove the bus completely from the travel lane, as it interferes with their ability to merge back into mainline traffic.

In response, the city’s Road Diet design included the addition of a designated bicycle lane that served a dual purpose: it accommodated Burton Street bicycle traffic and provided a place for transit buses to make routine stops. Transit buses are able to utilize the bicycle lane during stops and still leave the majority of the through lane available for motorists behind the bus to use if they desire. This practical solution met the needs of the transit providers in the area while also improving the roadway for bicyclists.

To further address congestion concerns, the city optimized the traffic signal timing along the corridor, improving the progression of traffic and allowing motorists to more easily access Burton Street at stop-controlled intersections by providing gaps in traffic.

In the end, those living along Burton Street are enjoying the slower speeds and bicycle lanes the Road Diet has provided.

<sup>1</sup> Zane McMillin, “Grand Rapids leaders make case for Burton Street ‘diet’ as business owners cry foul,” mLIVE, January 10, 2012. Assessed March 23, 2015. Available at: [http://www.mlive.com/news/grand-rapids/index.ssf/2012/01/grand\\_rapids\\_leaders\\_make\\_case.html](http://www.mlive.com/news/grand-rapids/index.ssf/2012/01/grand_rapids_leaders_make_case.html)

<sup>2</sup> Ibid.

<sup>3</sup> Comment from Amy Baas on “Move forward with planned Burton Street (Grand Rapids, MI) Road Diet,” an online petition posted by Joshua Leffingwell. Accessed March 23, 2015. Available at: <https://www.change.org/p/bike-friendly-gr-move-forward-with-planned-burton-street-grand-rapids-mi-road-diet>



## Chicago, Illinois - 55<sup>th</sup> Street

### ROAD DIET INCLUDES PARKING-SEPARATED BICYCLE LANES

#### OBJECTIVE

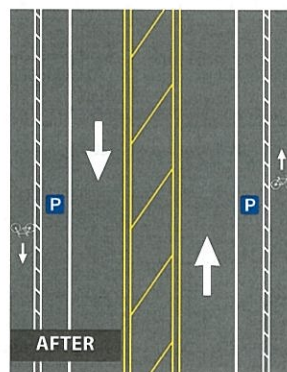
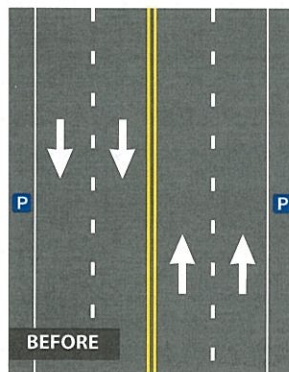
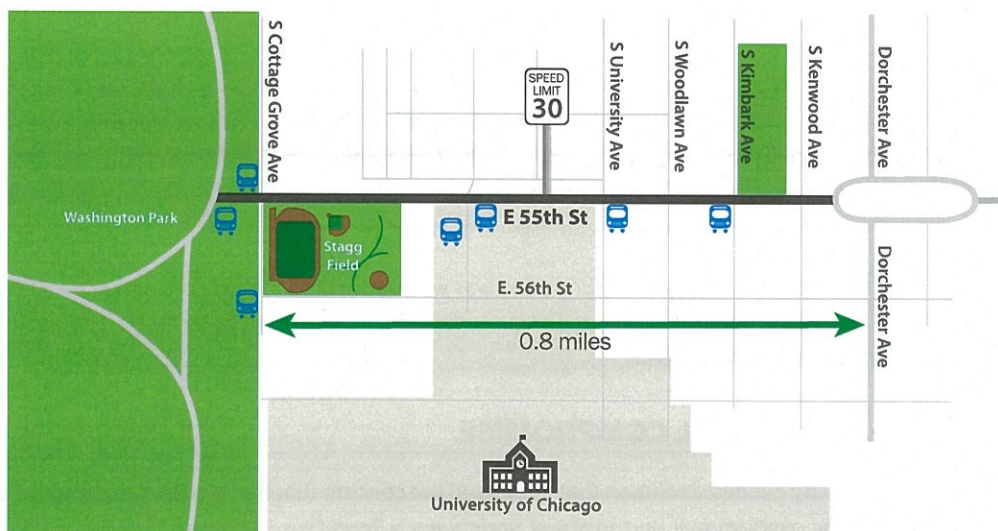
- Improve safety and connectivity for bicyclists
- Maintain efficient bus operation

#### FEATURES

- Transit route
- University and athletic fields
- Residential and commercial uses
- Fire station

#### RESULTS

- Reduced speeds
- Easier crossing at intersections
- Livability benefits
- Increased bicycle use



#### BACKGROUND

In 2011, an announcement from Chicago's mayor that the city would install 100 miles of separated bicycle lanes was the starting point that led to the Road Diet on 55th Street. From Cottage Grove Avenue to Dorchester Avenue, this 0.8-mile segment of roadway runs along the University of Chicago campus and ends on the west end at Washington Park. This Road Diet transformed a 4-lane roadway with parking on both sides to a 3-lane roadway with parking-separated bicycle lanes.

The land use along 55th Street is primarily a mix of institutional, residential, commercial, and service uses, including a fire station. The University of Chicago buildings and athletic fields abut 55th Street on one side, and a service drive parallels a portion of this corridor.





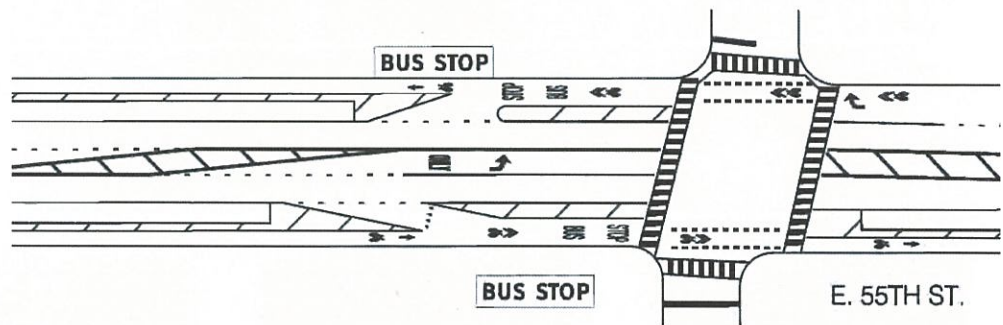
Bus entry



Bus stop and shared lane at intersection, through intersection markings

## DESIGNING FOR BUS STOPS AND SEPARATED BICYCLE LANES

The Chicago Transit Authority (CTA) has a primary bus route along this corridor, with headways ranging from 5 to 20 minutes throughout the day. The city coordinated extensively with the CTA on the design of the Road Diet. The overall design and layout of the bus stops in coordination with the separated bicycle lanes was a critical issue to maintain efficient bus operation.



THE ADDITION OF BICYCLE LANES IS A GREAT ADVANTAGE TO UNIVERSITY OF CHICAGO STUDENTS, STAFF, AND VISITORS

## RESULTS

The 55th Street Road Diet experienced the following results after installation.

- Speeding had been an issue on the corridor prior to the Road Diet, but since the conversion, drivers have been closely adhering to the 30 mph speed limit.
- One business owner was concerned about losing on-street parking spaces, but overall he felt that cars were driving slower now and he saw the bicycle lane as an important addition.
- According to a city engineer, the Road Diet has made it easier for pedestrians to cross 55th Street at intersecting roadways.
- The community expressed that the Road Diet has benefited livability. Since 55th Street runs along the University of Chicago campus, the addition of bicycle lanes was a great advantage to students, staff, and visitors.



# Chicago, Illinois – Franklin Boulevard

## ROAD DIET IMPROVES BICYCLE CONNECTIVITY, ENHANCES LIVABILITY

### OBJECTIVE

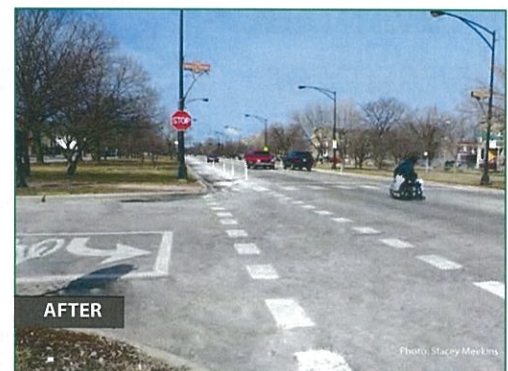
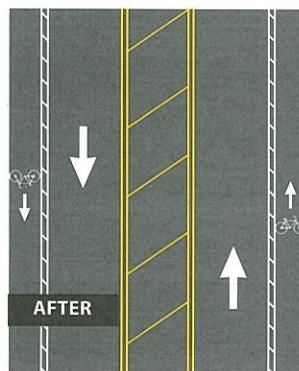
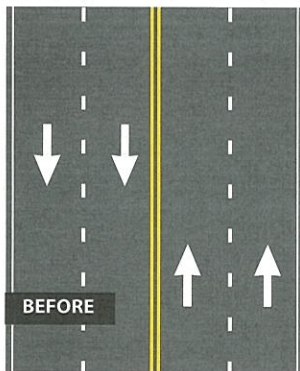
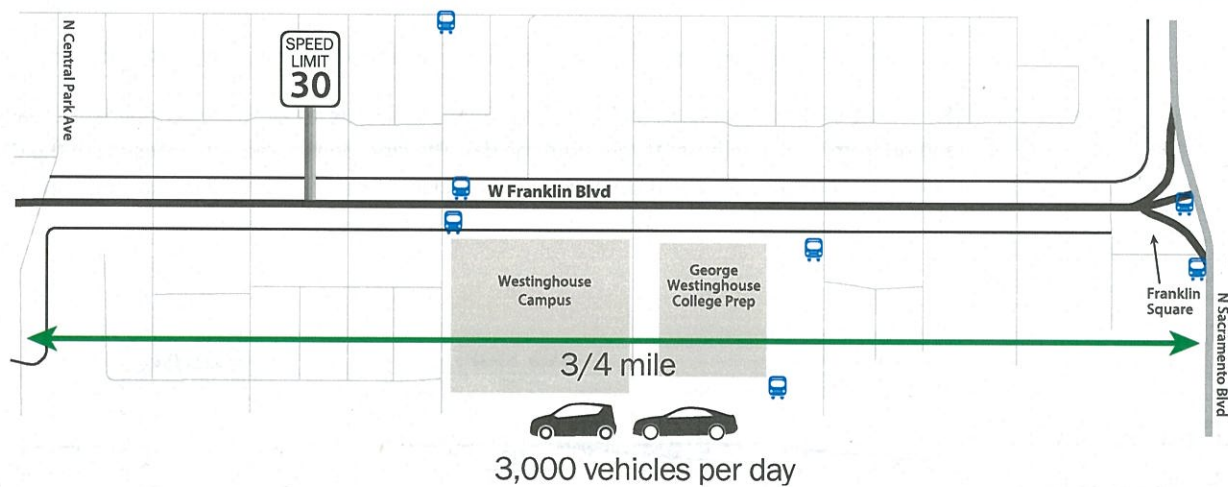
- Improve safety and connectivity for bicyclists

### FEATURES

- Separated bicycle lanes
- Neighborhood parks, veterans retirement home, nearby schools
- Access management/parallel outer roads

### RESULTS

- Improved safety and mobility for bicyclists
- Livability benefits
- Improved pedestrian crossings



### BACKGROUND

As part of Chicago's plan to expand the mileage of bicycle lanes, the 3/4-mile Road Diet on Franklin Boulevard from Sacramento Boulevard to Central Park Avenue transformed a 4-lane roadway to a 3-lane roadway with separated bicycle lanes in each direction.

Franklin Boulevard has good access management, with limited intersecting roadways and parallel one-way service roads alongside the main throughway separated by a planted median. The sidewalks serving the neighborhood are located along the service roads. The land use along Franklin Boulevard is primarily residential but also contains two schools, a veterans home, and a hospital.



# Chicago, Illinois – Franklin Boulevard

## ROAD DIET IMPROVES BICYCLE CONNECTIVITY, ENHANCES LIVABILITY



3-lane cross-section with bollard-separated bicycle lanes



Cross-section at an all-way stop intersection

### SEPARATED BICYCLE LANES

With Franklin Boulevard's relatively low average daily traffic (ADT) of approximately 3,000 vehicles, traffic congestion was not an issue on this corridor. The reason for this Road Diet conversion was due to Chicago's plans to further expand and connect the bicycle facilities throughout the city. The project allowed for the installation of bicycle lanes with a buffer space delineated with vertical bollards to separate vehicles and bicycles.

The biking community has been excited and supportive of Chicago's overall expansion plans, "Thanks to these new facilities, Chicago's streets have never been safer for people on bicycles. And people of all ages are taking their first bicycle ride in years, further expanding Chicago's bicycling community and helping us build momentum for better cycling conditions."<sup>1</sup>

### RESULTS

Speeding and congestion were not issues for this corridor before or after the conversion, but the Road Diet produced positive "livability" or "quality of life" changes, such as:

- Residents along Franklin Boulevard felt the re-design improved both safety and the ability of children to bicycle to school.
- A veterans home along Franklin Boulevard, which provides bicycles to their residents and visitors, expressed appreciation for the addition of the separated bicycle lanes in the area to keep this particularly vulnerable user group safe and mobile.
- The additional bicycle lanes connect three area parks – Garfield Park, Central Park Boulevard, and Franklin Square – lengthening the mileage for recreational bicyclists.
- The additional bicycle lanes improved the connectivity to public transit, community institutions, and several parks.

<sup>1</sup> "Chicago Bikeways Continue to Bloom This Week - Read the Latest Update!" Blogpost Active Transportation Alliance, May 21, 2012. Accessed March 30, 2015. Available at: <http://activetrans.org/node/9098>





## Chicago, Illinois - Wabash Avenue

### CAPACITY IMPROVED AFTER ROAD DIET

#### OBJECTIVE

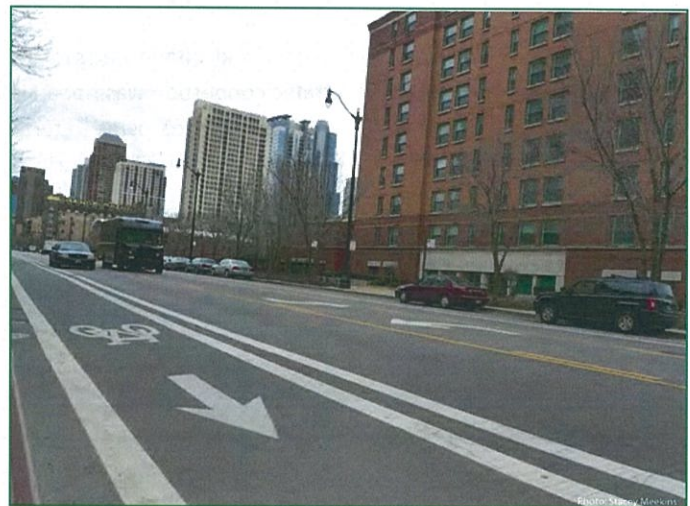
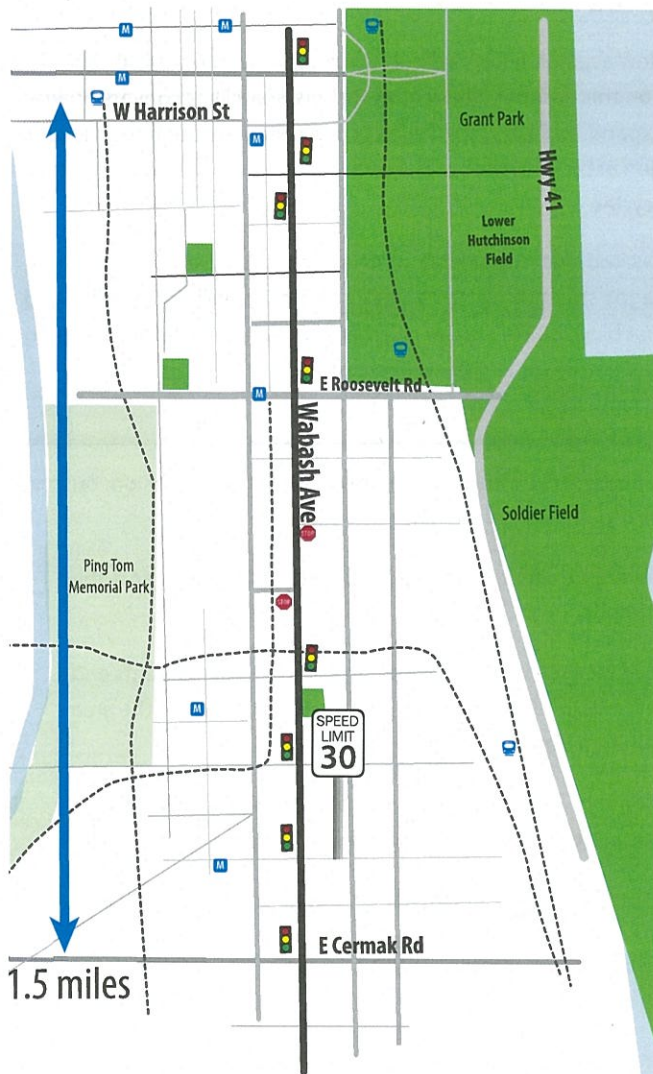
- Improve connectivity for bicyclists

#### FEATURES

- Commercial and service-oriented businesses, college, connections to nearby parks
- Buffered bicycle lanes
- Signal optimization

#### RESULTS

- Overall capacity and level of service improved
- Improved safety and connectivity for bicyclists



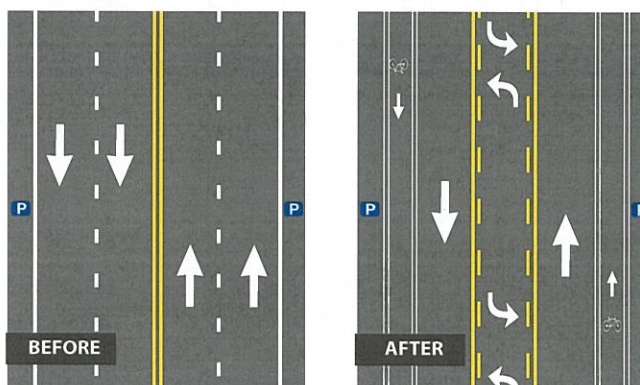
*Buffered Bicycle lane*

Developing bicycle lanes along Wabash Avenue as part of Chicago's bicycle plan implementation was the city's primary reason for the 1.5-mile Road Diet from Cermak Road to Harrison Street. The cross section of this corridor was originally 4-lanes with on-street parking. It was converted to a 3-lane cross section with on-street parking and buffered bicycle lanes on both sides.

Located just south of Chicago's main business district, "The Loop," the land use on Wabash Avenue is a combination of commercial and service-oriented businesses, as well as institutional, with a college being located in the area. Intersections along the 30-mph corridor are mostly controlled by traffic signals with the exception of two T-intersections that are all-way stop-controlled.



The striping plans created separation between vehicles and vehicles and bicycles with a 2-ft wide painted buffer zone, and it allowed for the addition of left-turn lanes at the intersections.

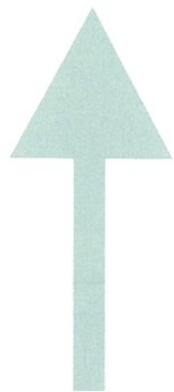


## IMPLEMENTATION PLAN

Scheduled to undergo a phased resurfacing plan, the city took the opportunity to install buffered bicycle lanes along Wabash Avenue when the corridor was re-striped. Just north of the entire corridor, Wabash is a one-way street, which provided a logical terminus for the bicycle lanes and the Road Diet. The striping plans created separation between vehicles and vehicles and bicycles with a 2-ft wide painted buffer zone, and it allowed for the addition of left-turn lanes at the intersections. The traffic signals along Wabash Avenue also underwent a signal optimization with the Road Diet conversion to mitigate any traffic operations concerns.

## RESULTS

A capacity analysis using simulation software revealed that capacity improved along Wabash Avenue after installation of the Road Diet and signal optimization.





# Pasadena, California – Cordova Street

## ROAD DIET IMPROVES MULTIMODAL LEVEL OF SERVICE

### OBJECTIVE

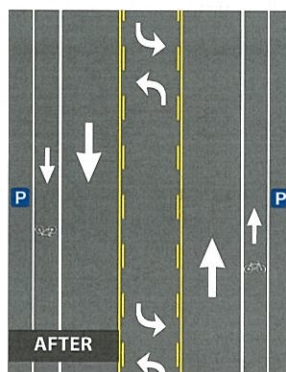
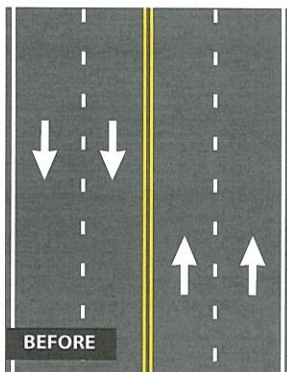
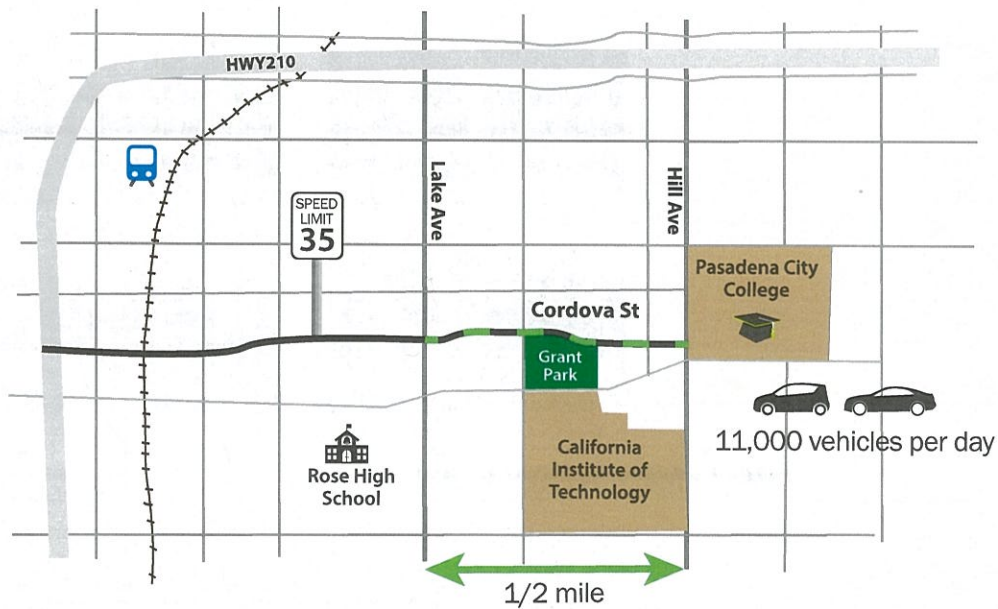
- Lower speeds
- Improve pedestrian safety
- Install bicycle lanes
- Improve pavement conditions

### FEATURES

- Multi-family residential
- High traffic
- Excessive speeding
- School, park, and college

### RESULTS

- Increased safety without added traffic signals
- Speeds reduced
- Increased bicycle ridership



### BACKGROUND

With the intent to reduce speeds and improve safety, the City of Pasadena completed a Road Diet in June 2010 on Cordova Street in conjunction with a repaving project. In support of the city's Bicycle Master Plan, the project spanned just over one-half mile, from Lake Avenue to Hill Avenue and provided bicycle lanes along the corridor.



# Pasadena, California – Cordova Street

## ROAD DIET IMPROVES MULTIMODAL LEVEL OF SERVICE



Cordova St looking east



Cordova St at Mentor Ave looking west toward Lake Ave



Cordova St at Hill Ave cross section

## MULTIMODAL LEVEL OF SERVICE:

Analysis that assesses how well a street serves the needs of all users.

The city's analysis followed the guidelines presented in *NCHRP Report 616 Multimodal Level of Service Analysis for Urban Streets*.

Located adjacent to the Central Business district, Cordova Street includes multi-family residential and commercial property and is home to a private school, park, and community college along the Road Diet corridor. Cordova Street carries approximately 11,000 vehicles per day, with AM and PM peak hour traffic volumes varying between 600 and 1,000 vehicles.

## PLANNING AND OUTREACH

Using funds from the American Recovery and Reinvestment Act, a basic repaving project planned for Cordova Street allowed for the Road Diet conversion and helped fulfill the city's goal of installing bicycle lanes and enhancing existing curb parking along this corridor.

The City of Pasadena conducted outreach through the city council's office and the city's website prior to beginning the transformation.

*"Pasadena is always looking for new ways to provide non-vehicular alternative modes of travel to its citizens," said city Transportation Director Fred Dock. "This project will serve the bicyclists traveling between the South Lake District and Pasadena City College, making it safer for pedestrians to cross at intersections and potentially reducing the driving speed of motorists."*

Preceding this project, there had been some speeding issues on Cordova Street, and because of safety concerns residents had requested the installation of additional traffic signals to help pedestrians cross the street. The Road Diet was able to benefit pedestrians without installing new traffic signals by removing two through lanes of traffic and adding painted curb extensions at intersections, providing ample opportunities to cross at unsignalized intersections along the corridor.

## RESULTS

A before-and-after study completed in late 2011 examined traffic speeds, volumes, safety, and the multimodal level of service. The results showed an improved bicycle level of service and no changes to pedestrian or vehicular levels of service along the corridor. There was also a slight reduction in total collisions and injuries. After the Road Diet, traffic speeds were reduced and compliance with the posted speed limit increased.

<sup>1</sup> The City of Pasadena, "Cordova Street To Be Placed On A Road Diet," June 14, 2010. Accessed March 17, 2015. Available at: <http://www.ci.pasadena.ca.us/EkContent.aspx?theme=Navy&id=8589935066&bid=2970&style=news>



## Santa Monica, California – Ocean Park Boulevard ROAD DIET IMPROVES SAFETY NEAR SCHOOL

### OBJECTIVE

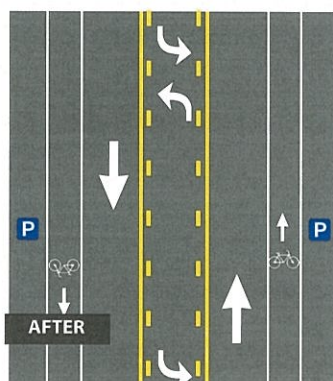
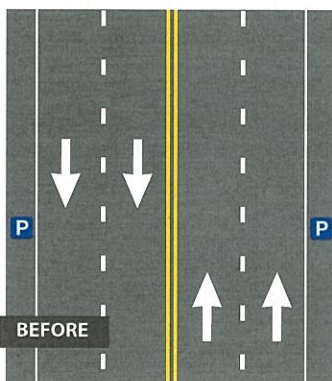
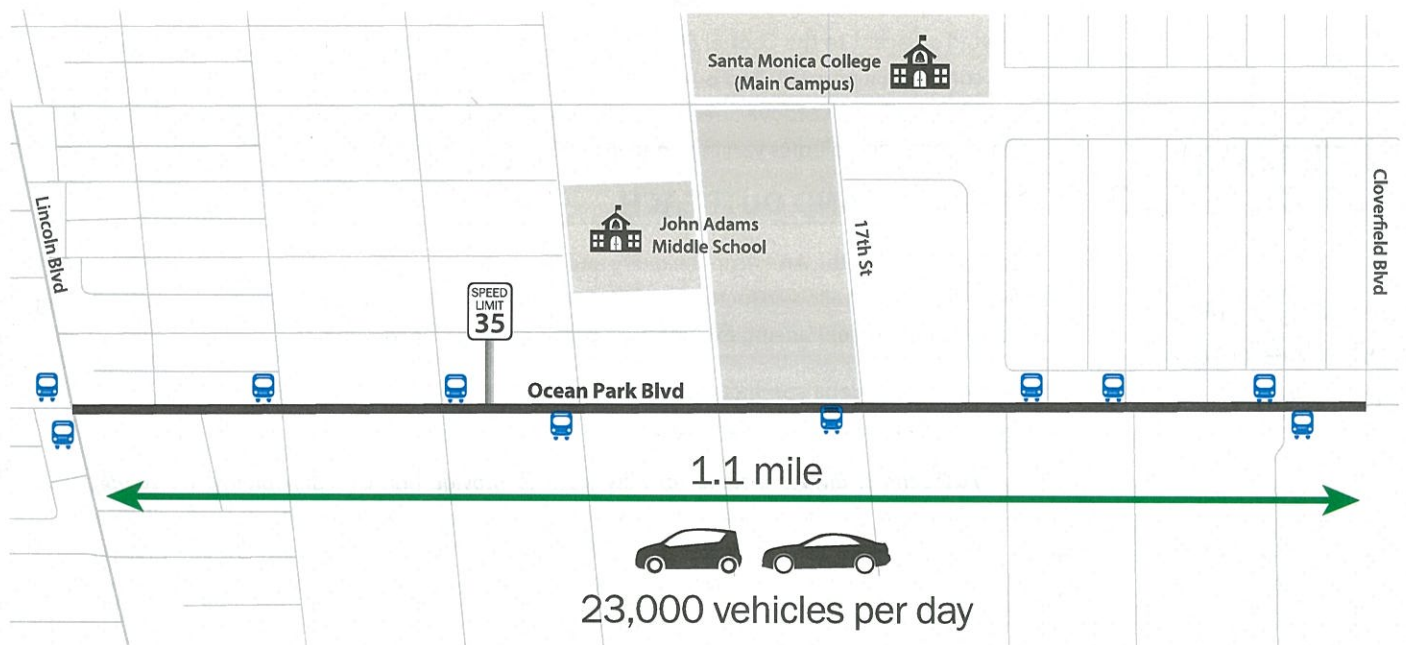
- Improve safety and pedestrian crossing conditions along Ocean Park Blvd from 16th to 18th Streets

### FEATURES

- School zone
- Previous safety improvements had little influence on speeding and number of crashes

### RESULTS

- 65% reduction in collisions
- 60% reduction in injury collisions
- Reduction of speeds



### BACKGROUND

The City of Santa Monica installed an interim Road Diet on Ocean Park Boulevard in 2008 with hopes of improving safety for pedestrians and bicyclists in the area. Extending 1.1 miles, from Lincoln Boulevard to Cloverfield Boulevard, the Road Diet included restriping, bicycle lanes, and on-street parking.

The corridor is a transit route and carries approximately 23,000 vehicles per day, the upper end of traffic volumes typically recommended for a 3-lane Road Diet. The land use along Ocean Park Boulevard includes several schools and a neighborhood commercial district. The speed limit on the corridor is 35 mph, with a school zone area of 25 mph when children are present.



# Santa Monica, California – Ocean Park Boulevard

## ROAD DIET IMPROVES SAFETY NEAR SCHOOL



Ocean Park Boulevard looking east at 16th Street



Ocean Park Boulevard looking east at 18th Street marked crosswalk and bicycle lane

### SAFETY ISSUES

The main focus area of the Ocean Park Boulevard Road Diet was a short segment from 16th Street to 18th Street, which includes the Will Rogers Elementary School, the John Adams Middle School, and recreational facilities. With such a high volume of student activity in this area, vehicle speeds and a recent increase in crashes were concerning for parents, school faculty, and nearby residents.

It became apparent to city officials that additional safety improvements were necessary since previous efforts such as adding crossing guards, flashing crosswalks, and speed feedback signs had little influence on speeding and the number of crashes.<sup>1</sup>

### RESULTS

In the first 9 months following the reconfiguration, collision data indicated there was a 65 percent reduction (from 35 to 12 crashes), as compared to the same 9-month period in the year prior to the Road Diet installation. Injury collisions were reduced by 60 percent following the reconfiguration.

Travel speeds, based on statistics from the local transit provider in the corridor, have generally remained constant throughout the day. The 85th percentile speed within the Road Diet is at or below 27 mph, and speeds are approximately 10 mph higher outside the Road Diet limits.

Utilizing a survey available online and distributed by mail, the city gauged the community's sentiment on the Road Diet installation. Many people appreciated the improved conditions for bicyclists and pedestrians, but others were dissatisfied by delays and a perception that the reconfiguration caused motorists to shift onto parallel streets.

The city collected traffic counts on Ocean Park Boulevard and the nearby roadways. Volumes on Ocean Park Boulevard decreased by approximately 3,000-4,500 vehicles per day after the conversion. The city's analysis was inconclusive on where these trips shifted. Some of the vehicles appeared to move to I-10 Freeway, but traffic counts showed the volumes on nearby local streets have been relatively stable.

Because of the resulting safety improvements and reduction of speed, the city made the decision in 2010 to retain the Road Diet configuration permanently as part of a resurfacing project along Ocean Park Boulevard.

THIS ROAD DIET  
CONFIGURATION  
RESULTED IN A  
**65%**  
REDUCTION  
IN COLLISIONS

<sup>1</sup> Ashley Archibald, "Ocean Park Blvd. Lane Change Project Made Permanent" *Santa Monica Daily Press*, April 12, 2011. Assessed March 17, 2015. Available at: <http://smdp.com/ocean-park-blvd-lane-change-project-made-permanent/78451>



# Los Angeles, California – Seventh Street

## ROAD DIET: KEY INGREDIENT IN LOS ANGELES' BICYCLE MASTER PLAN

### OBJECTIVE

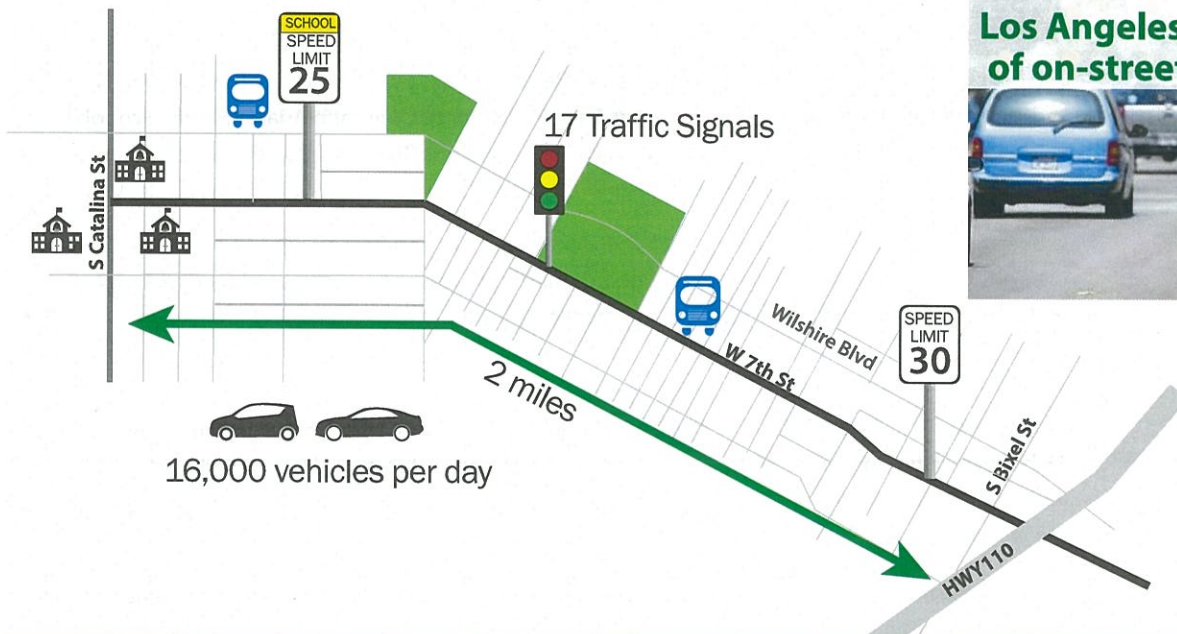
- Install bicycle lanes
- Improve pedestrian safety
- Increased bicycle usage

### FEATURES

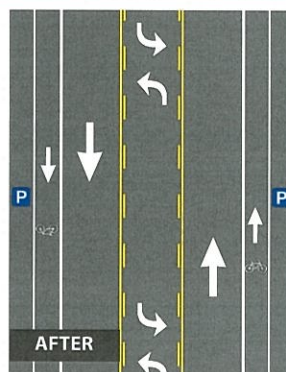
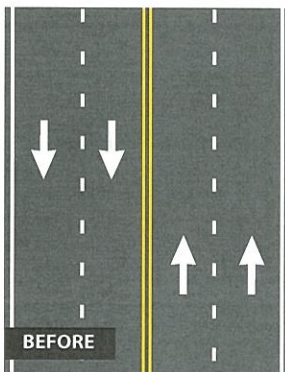
- Urban environment
- High density pedestrians
- Several schools nearby
- Bus routes

### RESULTS

- Community leader support
- Bicycle activists support
- Increased bicycle ridership



SOURCE: Alliance of Biking and Walking  
PHOTO: Jabin Botsford / Los Angeles Times



### BACKGROUND

In 2011, the Los Angeles Department of Transportation (LADOT) completed a Road Diet on Seventh Street in order to install bicycle lanes along this east-west arterial just west of downtown Los Angeles from Bixel Street to Catalina Street. With traffic volumes of approximately 16,000 vehicles per day and a high number of pedestrians and bicyclists, this corridor is busy with several transportation modes.





7th Street looking west at Bixel Avenue



7th Street looking west at Bixel Avenue



7th Street looking west at Coronado

## BICYCLE USE IN THE CORRIDOR **TRIPLED** ONCE THE ROAD DIET AND NEW BICYCLE LANES WERE COMPLETED

This 2-mile stretch of Seventh Street contains 17 traffic signals and serves numerous metro bus routes. The land use is mainly multi-family residential and commercial, with several large parks along the corridor. A high school is located on the west end, and there are two middle schools nearby. The speed limit for the roadway is 30 mph except in areas where there are 25 mph school speed zones.

The City of Los Angeles developed a Bicycle Master Plan that provides direction for improving bicycle mobility and encouraging more bicycle ridership by expanding the existing bikeway network and improving connectivity. As a result of this Bicycle Master Plan, the installation of bicycle lanes is a major driving force for Road Diets in Los Angeles, but the overarching goal for the conversions is safety.

### OUTREACH

Prior to the implementation of the Road Diet, LADOT prepared a presentation that discussed expected benefits to safety, traffic calming, non-motorized accessibility, business access, and community health. LADOT discovered that emphasizing the safety benefits of Road Diets is important in gaining public acceptance.

Each corridor is unique, and LADOT found that working with their city council was essential to beginning a successful outreach process. The Los Angeles County Bicycle Coalition and other bicycle activists and community leaders strongly supported the project and assisted in the community outreach.<sup>1</sup>

### RESULTS

After the completion of the Seventh Street Road Diet, LADOT received positive feedback from users, and a before-and-after bicycle count conducted by the Los Angeles County Bicycle Coalition showed that bicycle use in the corridor tripled once the Road Diet and new bicycle lanes were completed. LADOT also conducted some traffic analyses at several key intersections along the corridor and found that the results were satisfactory.

<sup>1</sup> Joe Linton, "Seventh Street Bike Lanes Installed," CICALAVIA, August 15, 2011. Accessed March 17, 2015. Available at: <https://cicalavia.wordpress.com/2011/08/15/seventh-street-bike-lanes-installed/>



## Reston, Virginia – Lawyers Road

### ALL-AROUND SUCCESS FOR SAFETY AND OPERATIONS

#### OBJECTIVE

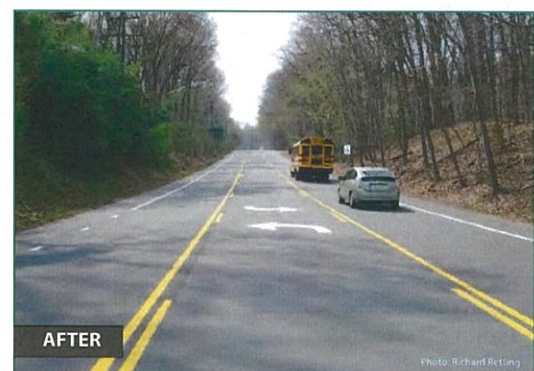
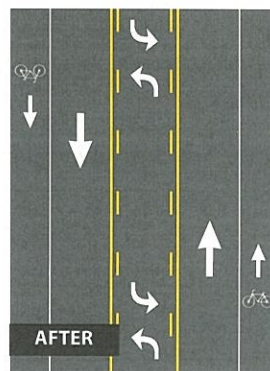
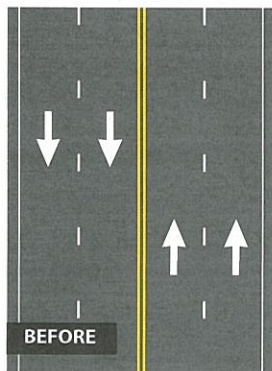
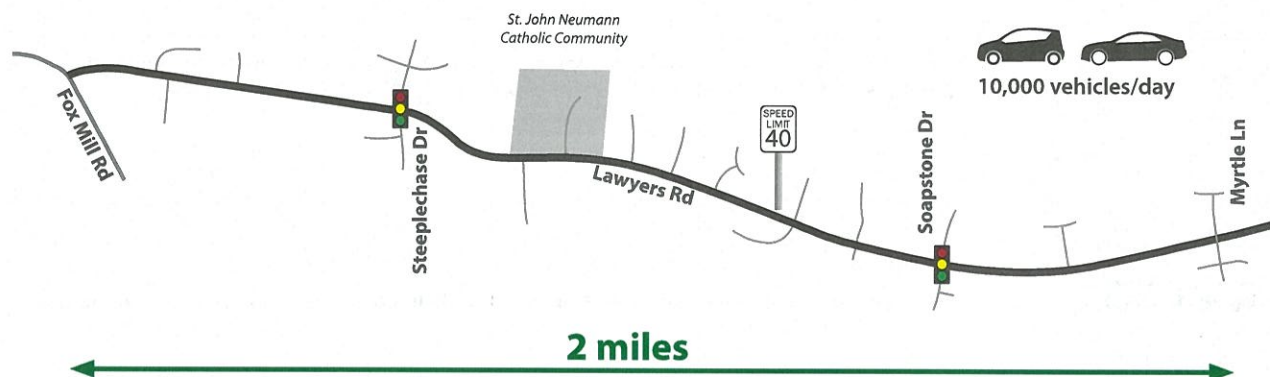
- Reduce crashes and speeding
- Improve safety and connectivity for bicyclists

#### FEATURES

- Suburban area
- Public meetings
- Community “after” survey

#### RESULTS

- 70% reduction in crashes
- Travel time remained consistent
- Bicycle use increases



### BACKGROUND

As part of a scheduled repaving project, the Virginia Department of Transportation (VDOT) implemented a Road Diet on a 2-mile section of Lawyers Road in Reston, Virginia, extending from Fox Mill Road to Myrtle Lane. Prior to the installation, Lawyers Road had two lanes in each direction; after the Road Diet, the corridor has one travel lane and a bicycle lane in each direction, separated by a two-way left-turn lane.

The land use on Lawyers Road is low-density residential with mostly single family homes and relatively long segments between intersections. There are no curbs or sidewalks through this area, and the traffic volume is approximately 10,000 vehicles per day.





*Road Diet treatment on Lawyers Road*

## FEASIBILITY AND COMMUNITY INPUT

VDOT planned to repave Lawyers Road in 2009 and took that opportunity to evaluate the feasibility of a Road Diet along this roadway. A 2-mile segment was identified, and VDOT's evaluation concluded that the traffic volumes in this area would be accommodated easily with a 3-lane section. After analyzing the crash types that were occurring between Fox Mill Road and Myrtle Lane, VDOT determined that a number of the crashes occurring could be addressed with a Road Diet conversion. Rear-end crashes involving vehicles waiting to turn left from the left through lane is one crash type that can be mitigated when converting a 4-lane roadway into a 3-lane roadway.

Prior to implementation, VDOT discussed the proposed Road Diet at community meetings to answer residents' questions and solicit feedback. Despite some concerns regarding potential traffic congestion and feelings that bicycle lanes were unnecessary on the corridor, many supported the Road Diet conversion. Bicyclists favored the 5-ft bicycle lanes proposed in the Road Diet, which would improve their overall safety and connectivity in the area.

## RESULTS

A before/after analysis of speeds confirmed that operating speeds were reduced after Road Diet implementation. In response, VDOT lowered the speed limit on the 2-mile section of Lawyers Road from 45 mph to 40 mph.

Five years after the Road Diet conversion, a safety study revealed a 70 percent reduction in crashes between Fox Mill Road and Myrtle Lane. In Fall 2010, VDOT conducted a survey to gauge the community's thoughts regarding the Road Diet on Lawyers Road. The key findings are summarized below:<sup>1</sup>

- 69 percent of respondents said Lawyers Road seems safer after the Road Diet was implemented.
- 47 percent of respondents bicycled on Lawyers Road more often than before, indicating that the Road Diet encourages bicycling as a travel mode.
- 69 percent said auto travel times have not increased, even though 59 percent said speeds dropped.
- 74 percent agreed the Road Diet project improved Lawyers Road.

<sup>1</sup>"Lawyers Road Diet Survey Results Report" December 2010. Assessed March 23, 2015. Available at: <http://www.smartgrowthamerica.org/documents/cs/resources/vdot-lawyersroad-survey.pdf>



## Reston, Virginia – Soapstone Drive

### THERE'S MORE THAN ONE WAY TO COMPLETE A ROAD DIET

#### OBJECTIVE

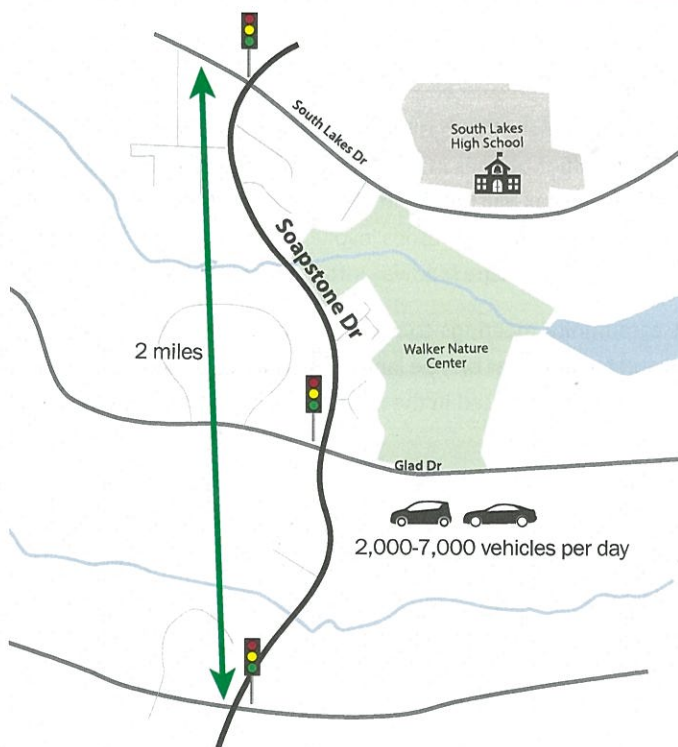
- Improve safety/mobility for pedestrians/bicyclists
- Reduce crashes
- Address issues with street parking

#### FEATURES

- Three different reconfigurations
- Nature center, parks, recreational trails
- Rural/suburban

#### RESULTS

- 70% crash reduction
- Improved access to transit station for bicyclists



#### BACKGROUND

The success of the Road Diet on Lawyers Road convinced the Virginia Department of Transportation (VDOT) to try their second conversion on nearby Soapstone Drive. VDOT once again took advantage of a regularly-scheduled repaving project to implement the Road Diet which stretched from Sunrise Valley Drive to Lawyers Road. Carrying 2,000 to 7,000 vehicles per day, the cross section, land use, and speed limit vary on this nearly 2-mile segment of Soapstone Road, requiring a number of different reconfigurations along the corridor.

The most typical Road Diet conversion transforms a roadway with two lanes in each direction to a road with a single lane in each direction and a center turn lane, with the extra space often being used for bicycle lanes or parking. VDOT's Road Diet on Soapstone Road highlights a variety of ways a Road Diet can be implemented.

#### SUNRISE VALLEY DRIVE TO SOUTH LAKES DRIVE

This 35 mph section of Soapstone Drive is more urban than the following segments, with sidewalks, multi-family housing, and light retail. A golf course and an elementary school are located nearby.

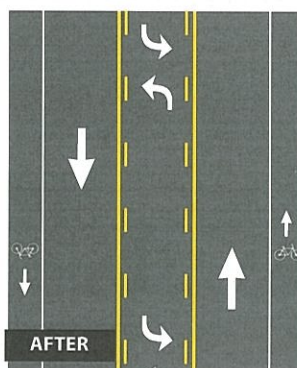
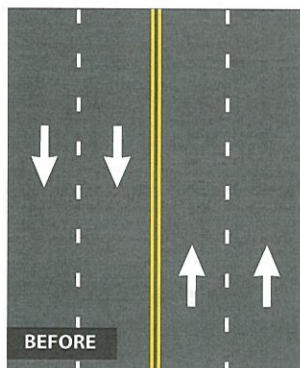
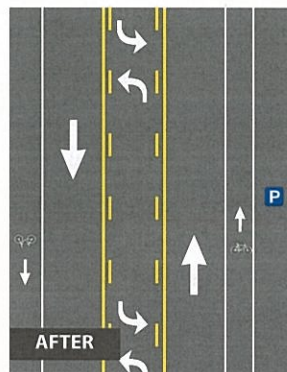
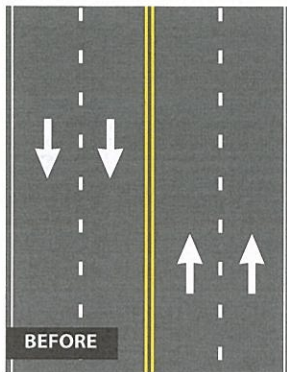


Photo: Barbara Rotting



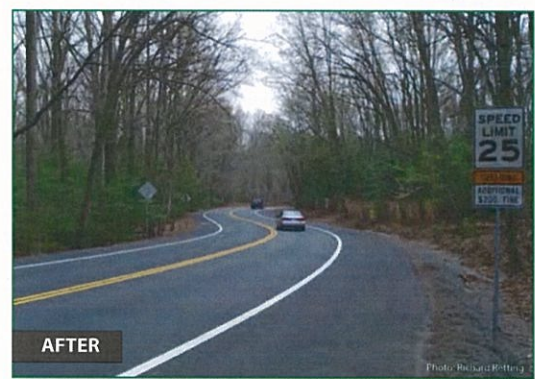
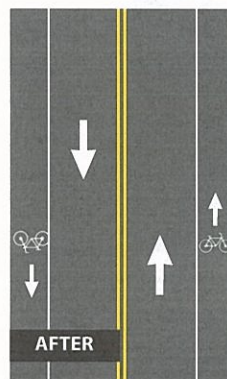
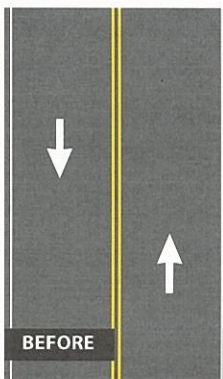
## SOUTH LAKES DRIVE TO GLADE DRIVE

South Lakes Drive to Glade Drive has a wider cross-section and is located adjacent to the Walker Nature Center. With a mix of multi-family housing and commercial activity on one end and woodland areas and single family homes on the other, this middle section is transitioning from urban to a slightly rural feel.



## GLADE DRIVE TO LAWYERS ROAD

While not a traditional Road Diet, VDOT restriped 18-ft lanes down to 12-ft and carried the bicycle lanes throughout. With a speed limit of 25 mph, this section of Soapstone Road includes low-density residential neighborhoods with single family homes. The surrounding land contains woodland areas and parks with recreational trails that attract pedestrian and bicycle traffic.



## RESULTS

- Much like the success on Lawyers Road, the Road Diet on Soapstone Road achieved great results, improving safety with a crash reduction of 70 percent.
- The resulting linked network of bicycle lanes on Soapstone Road and Lawyers Road provides an excellent travel option for access to the nearby transit station.
- The success of the Reston projects is leading VDOT to greatly expand its use of Road Diets regionwide.

**“A big thank you to VDOT for having the vision to modify Soapstone and Lawyers, making both roads safer for everyone and creating dedicated bike facilities for cyclists.”<sup>1</sup>**

FABB Blog: Fairfax Advocates for Better Bicycling

<sup>1</sup> Bruce Wright, “Soapstone Bike Lane Project Starts Monday,” FABB Blog - Fairfax Advocates for Better Bicycling, October 14, 2011. Accessed March 23, 2015. Available at: [http://fabb-bikes.blogspot.com/2011\\_10\\_01\\_archive.html](http://fabb-bikes.blogspot.com/2011_10_01_archive.html)



## Dunn Loring, Virginia - Oak Street

### IMPROVING SAFETY AND LIVABILITY

#### OBJECTIVE

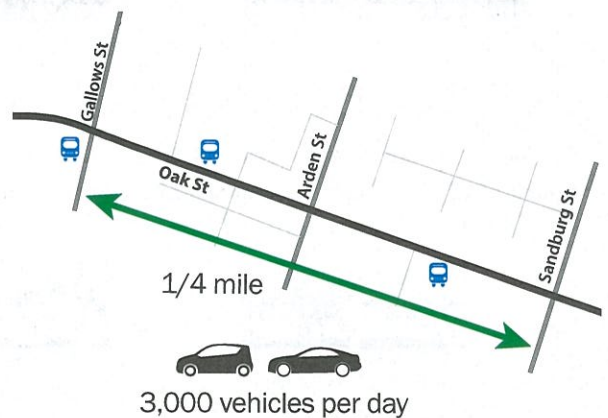
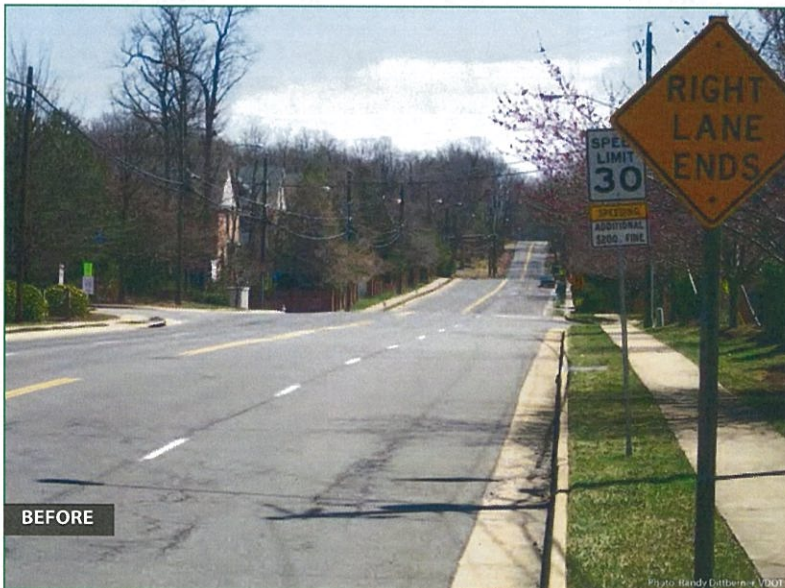
- Provide consistent lane configuration
- Reduce speed violations
- Fix pavement problems

#### FEATURES

- 3,000 vehicles per day
- Residential neighborhood
- Sudden transition from 4-lanes to 2-lanes

#### RESULTS

- Improved safety
- Reduced aggressive driving behaviors
- Improved livability with addition of bicycle lanes and parking



With hopes of providing a more consistent lane configuration and eliminating the most egregious speeding violations, the Virginia Department of Transportation (VDOT) implemented a Road Diet on a 1/4-mile segment of Oak Street between Gallows Road and Sandburg Street.

Traffic volumes along this section of Oak Street are approximately 3,000 vehicles per day, and the surrounding neighborhood is mainly residential with single- and multi-family housing.





*Oak Street after resurfacing and prior to installation of Road Diet markings*



*Oak Street after installation of Road Diet markings*

**This roadway had an uncomfortable transition, and circumstances required an overlay due to wear. VDOT used that opportunity to fix the transition with a Road Diet, which also brought about safety and livability benefits.**

## BACKGROUND

Prior to the Road Diet, this 4-lane section of Oak Street ended abruptly just east of Sandburg Street, transitioning to a 2-lane roadway. This sudden lane drop often caused confusion for unfamiliar motorists in the area. In the 4-lane section, speeding and aggressive drivers often used the extra through lane in order to weave through traffic.

When a parallel street was temporarily closed for a bridge replacement, Oak Street absorbed a substantial increase in traffic volume, which accelerated the wear on its pavement. VDOT took advantage of the unplanned resurfacing to quickly design and implement a Road Diet, taking this 4-lane section of Oak Street to a 3-lane roadway with bicycle lanes and on-street parking.

## RESULTS

While Oak Street had averaged less than a single crash per year in this short segment before the Road Diet was installed, VDOT is pleased to report that there have been no crashes in the first year following the project's completion in 2013.

"Through this Road Diet, we've been able to create center turn lanes, bike lanes, and on-street parking, all of which helped improve the safety and livability of the roadway," said Randy Dittberner of VDOT.



## Des Moines, Iowa – Ingersoll Avenue

### TEMPORARY ROAD DIET BECOMES PERMANENT

#### OBJECTIVE

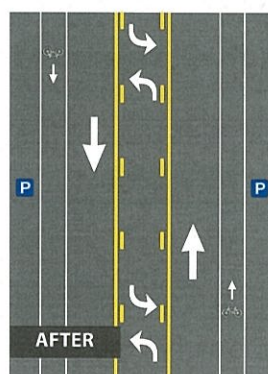
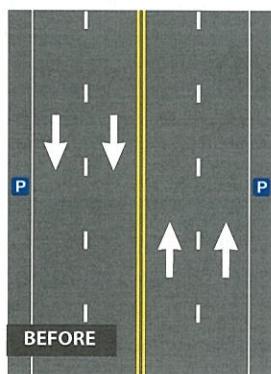
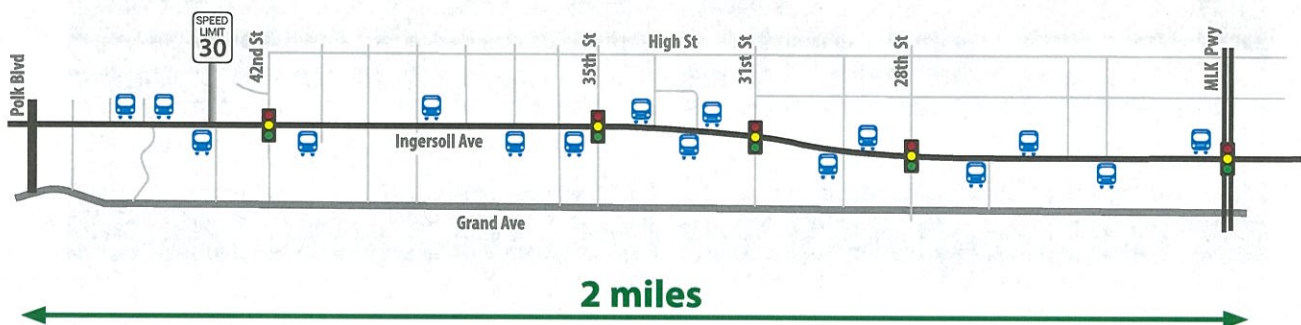
- Calm traffic
- Improve pedestrian and bicycle access
- Enhance business environment

#### FEATURES

- Transit route
- Commercial businesses
- Community concerns

#### RESULTS

- 50 percent reduction in crashes
- Majority favored keeping Road Diet



#### BACKGROUND

In 2010, the City of Des Moines, decided to “try out” a Road Diet on 4-lane Ingersoll Avenue between Polk Boulevard and Martin Luther King Jr. Parkway for a trial period. The 2-mile long Road Diet was implemented primarily as a Context Sensitive Solution (CSS) project to enhance the business environment with traffic calming, improve pedestrian and bicycle access, and add landscaping.



*We were critical of the Des Moines City Council for its decision to approve the restriping of Ingersoll Avenue to change it from four lanes to three lanes... On all accounts, we were wrong. Our concerns proved to be unwarranted.*

*Cityview, Central Iowa's Independent Weekly<sup>1</sup>*



Carrying 11,000 to 17,000 vehicles per day and serving as a transit bus route, Ingersoll Avenue is primarily developed with small, locally owned retail stores and restaurants. After the completion of the Road Diet, the final cross section included a 3-lane roadway with parking and bicycle lanes in both directions. The city provided right-turn lanes at the signalized intersections by prohibiting parking prior to the traffic signal.

## COMMUNITY CONCERNS

The community initially expressed concerns about a potential Road Diet, mostly centered on reducing traffic lanes to accommodate bicyclists. Critics were worried the Road Diet would cause more congestion, thereby encouraging motorists to avoid the area and hurting the businesses along Ingersoll. The community was also worried the change could result in an increase in crashes.

The city's response was to offer a 6-month trial period for the Road Diet. If the public's concerns came to fruition, then the city would happily convert Ingersoll back to a 4-lane roadway.

## RESULTS

Six months after the conversion, no major traffic problems had developed during the Ingersoll Avenue Road Diet. Although the Road Diet was not initially proposed and promoted as a safety improvement project, a simple before-and-after crash study revealed a 50 percent reduction in crashes.

Overall, traffic volumes did not decrease. In fact, there was a 5 percent increase in traffic from 11:00 AM to 1:00 PM, which suggests that motorists found the Ingersoll corridor to be more comfortable and inviting during their lunchtime.

The city conducted an online survey to gauge the public's view of the Road Diet after implementation. Although there remained some opposition, the results revealed that fewer people opposed the project after implementation than when the project was first proposed, and a majority favored keeping the Road Diet and felt the road was safer.

As a result of these findings, the Des Moines City Council voted to retain the Ingersoll Avenue Road Diet.

<sup>1</sup> Editorial Page, "Our View: Road diet makes Ingersoll fit" *Cityview*, Central Iowa's Independent Weekly, November 18, 2010. Accessed March 17, 2015. Available at: <http://dmcityview.com/2010/11/18/columns/ourview.html>.

*An online survey revealed that a majority of the community favored keeping the Road Diet and felt the road was safer.*



## Reno, Nevada

### EDUCATING THE PUBLIC ON ROAD DIETS

#### OBJECTIVE

- Educate the public about the benefits of Road Diets

#### FEATURES

- Information provided on how to interact with new lane markings for drivers and bicyclists
- Answers to frequently asked questions

#### RESULTS

- Increased public's knowledge of Road Diet's benefits
- Implementation for successful Road Diet

### BACKGROUND

The Regional Transportation Commission (RTC) of Washoe County has implemented many Road Diets within the City of Reno to allow for the addition of bicycle lanes. These projects were created as part of the Complete Street initiative to stimulate economic development and improve citizens' quality of life. The RTC has been proactive in educating the public during the entire process of implementing Road Diets. Once projects are complete, the RTC also publicizes the annualized crash rates<sup>1</sup> for the road segments which have undergone the Road Diet treatment. This increases the public's understanding of the safety benefits.

### PUBLIC OUTREACH



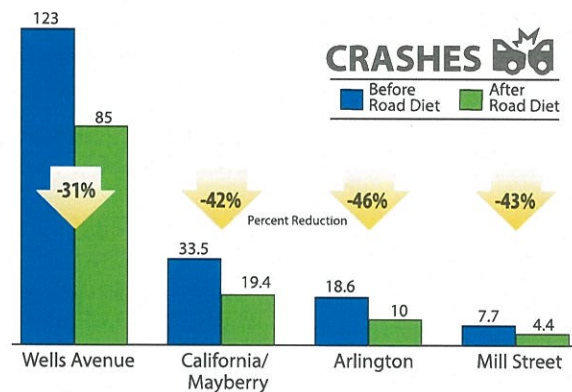
Prior to their Road Diet implementations, the RTC developed a two-page flyer that explains the basic concept of a Road Diet, discusses its associated benefits, and describes how to interact with the new lane markings.

The simple document describes Road Diets in terms that citizens understand and addresses issues the public cares about such as improving traffic flow, reducing crashes, and increasing the number of parking spaces.

The flyer provides answers to the most frequently asked questions:

- What is a Road Diet?
- How can a road with fewer lanes carry the same amount of traffic?
- How does a Road Diet make walking safer?
- How does a Road Diet making bicycling safer?
- What are the benefits of a Road Diet?
- What is a shared lane marking?
- Are bicycles supposed to move to the right?
- If I see these markings in a lane, is the lane only for bicycles?

The RTC also publicizes the annualized crash rates<sup>1</sup> for the road segments which have undergone the Road Diet treatment. This increases the public's understanding of the safety benefits.



<sup>1</sup> These crash rates are based on before-and-after studies of four Washoe County Road Diet locations. The numbers of crashes have been annualized to show a direct comparison between the locations. The percentages are intended for informational purposes only.



The Road Diet provides opportunities to increase on-street parking, which benefits motorists and businesses. The safety and improved flow are especially beneficial on roads like California and Arlington with lots of driveways and side streets. Moving the people making turns out of the traffic stream improves flow and reduces rear end collisions.

Excerpt from RTC's public outreach flyer, *Road Diets, Sharrows and Shared Lanes*

**FAQ's**  
What is a Road Diet?  
A road diet reduces the number of lanes from four to two with a center turn lane, bike lanes and parking lanes. Recently Washburn and Holcomb avenues and Mayberry Drive were reconfigured using this traffic technique.

**How can a road with fewer lanes carry the same amount of traffic?**  
In a three-lane configuration there is always one lane for driving and one lane for turning. That helps make driving safer with fewer vehicles and frustrations. With these improvements, a three-lane road can handle the same amount of traffic as a four-lane road.

**How does a road diet make walking safer?**  
Pedestrians have to cross only three lanes of traffic, not four. There are fewer blind spots when there is only one lane in each direction. There is less sight blockage by cars. Vehicles travel slower on a three-lane road diet.

**How does a road diet make biking safer?**  
Bicyclists and pedestrians can better share the road and can be seen more easily.

**Road Diet Benefits**

- Reduced vehicle speeds
- Reduced vehicle crash potential
- Improved sight distance
- Improved pedestrian facilities
- Improved bicycle facilities
- More on-street parking

**California Avenue Project**

**What is a Shared Lane Marking?**  
A shared lane is identified with a new type of pavement marking that directs bicyclists and motorists in the same lane. The new shared lane markings are known as "sharrows." Green pavement and bar used to emphasize the sideways position, an arrow and bicycle symbol also appears on the pavement.

**Are bicyclists supposed to move to the right?**

**Safety Tips for Sharing the Road**

**For bicyclists**

**On the Road**

- The same laws that apply to motorists apply to cyclists.
- Obey all traffic control devices.
- Use hand signals to indicate stops and turns to other users.

**Always Wear a Properly Fitted Helmet**

- Wear a helmet, no matter how short the trip.

**Ride on the Right**

- Always ride in the same direction as traffic. This is key to your safety.
- Use the furthest curb to the right that permits your direction and ride as far to the right as is practical.

**Don't Pass on the Right**

- Motorists may not look or see a cyclist passing on the right. When stopping in traffic, it is more cautious and safer to hold your place in traffic.

**Be Bicyclists!**

- You have the right to share the road.
- You also have a responsibility to share the law.

**Choose The Best Way To Turn Left**

- There are two ways to make a left turn. Like all other signs, obey until the left shoulder and complete the turn.
- A pedestrian ride straight to the sidewalk and walk your bike the intersection.

**Be Visible**

- Wear brightly colored clothing that provides contrast.
- Use a white light sign and a red rear light in low light conditions.
- Use a reflector, reflective tape and reflective clothing anytime.
- Announce yourself by making eye contact with motorists.

**For Motorists**

- Allow three feet of passing space between the right side of your vehicle and a bicyclist just as you would with a same-moving vehicle.
- Do not pass bicyclists if you will be making a right turn or making a lane change through the intersection.
- Always assume bicyclists are backing through the intersection.
- Before opening your car door, look for bicyclists who may be approaching.
- Do NOT scare bicyclists if emergency traffic is near. What you would wish any other moving vehicle.
- Reduce your speed when passing bicyclists, especially if the roadway is narrow.

**Remember**

The public information is a cooperative multi-agency effort. The RTC encourages the use of shared lane markings to improve the safety of the roadway. The RTC encourages the use of shared lane markings to improve the safety of the roadway. The RTC encourages the use of shared lane markings to improve the safety of the roadway.

For more information, call RTC Engineering and Planning at 775-784-1111. Visit our website at [www.rtc-smart.com](http://www.rtc-smart.com). Helpful tips on biking safety: <http://bicyclesafety.com/>

In an effort to promote safety, the flyer provides additional safety tips for bicyclists and motorists as they adjust to sharing the same lanes. These tips include reminding bicyclists that they are required to obey traffic laws and traffic control devices and encouraging them to ride predictably and to consider when drivers may or may not see them (e.g., passing traffic on the right-hand side or entering intersections when a driver's view may be obstructed). Other safety tips include suggesting motorists leave 3 feet of lateral space when passing a bicyclist, being aware of bicyclists when turning right across a bicycle lane, and checking for bicyclists before opening car doors on street-side parking.

**RESULTS**

The RTC's approach to Road Diet public education and outreach has been a key component in the success of their projects and has allowed them to continue to implement Road Diet treatments in Reno.



Experimenting with green-colored pavement in a continuous, longitudinal manner in conjunction with the shared-lane marking remains discontinued at this time. More information on the FHWA's active official experiments for green-colored pavement to communicate a continuous, longitudinal direction in conjunction with shared-lane markings can be found at the following websites: [http://www.fhwa.dot.gov/environment/bicycle\\_pedestrian/guidance/design\\_guidance/mutcd/gcp\\_slm.cfm](http://www.fhwa.dot.gov/environment/bicycle_pedestrian/guidance/design_guidance/mutcd/gcp_slm.cfm) and the MUTCD Official Rulings Database at <http://mutcd.fhwa.dot.gov/orsearch.asp>



# Reno, Nevada – California Avenue

## A FEASIBILITY EVALUATION USING TRAFFIC SIMULATION SOFTWARE

### OBJECTIVE

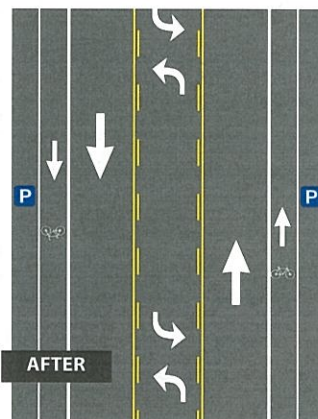
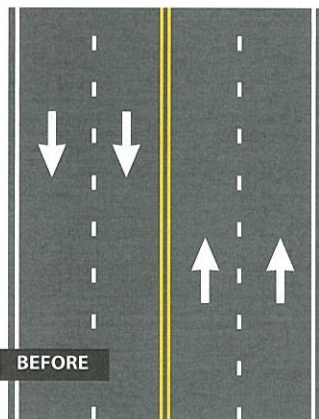
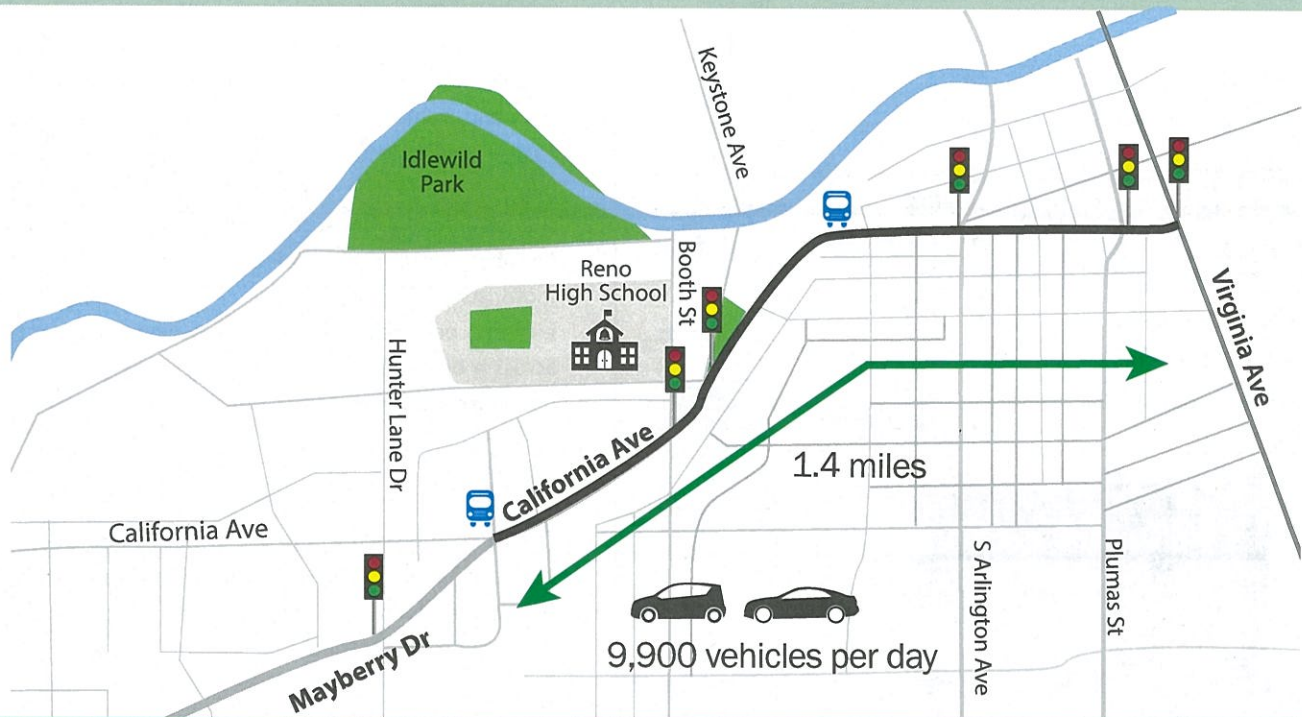
- Evaluate feasibility of Road Diet and its impact on traffic flow

### FEATURES

- Collection of traffic volumes, speed data, turning movement counts
- Traffic simulation software analysis

### RESULTS

- Maintained acceptable level of service
- Feasibility study supported the completion of the Road Diet



The Regional Transportation Commission (RTC) of Washoe County installed a Road Diet on California Avenue between Mayberry Drive and South Virginia Street in Reno, Nevada. To evaluate the feasibility of completing the Road Diet and to evaluate its impact on the existing traffic flow, the RTC used traffic simulation software.



### RESEARCH PLAN

Researchers collected 24-hour directional volume counts and spot speed data at three locations along California Avenue. Additionally, turning movement counts were manually collected at all intersections along the study corridor in order to collect baseline levels of service at each intersection.

The researchers utilized simulation software to mimic the intended roadway configuration after the Road Diet and its effect on traffic. Future traffic growth was not considered in the analysis in order to have a direct one-to-one comparison of before-and-after level of service outcomes.

### PROCEDURE

Researchers followed a four-step process for completing the Road Diet simulation.

#### 1. Collection of traffic counts

The research team collected one week of 24-hour directional traffic volume counts using tube-counters at three locations along the proposed segment.

#### 2. Collection of speed data

The research team collected spot speed data at the same three locations as the traffic counts. The team determined the 50th and 85th percentile speeds as inputs to the simulation data.

#### 3. Collection of turning movement data at signalized intersections

Researchers obtained manual turning movement counts during morning and evening peak hours at intersections along the proposed segment. This data was used to determine the level of service (LOS) of the intersections before the Road Diet conversion.

#### 4. Simulation analysis

Researchers simulated the Road Diet conditions at two combined intersections and at the access points. For the purpose of the simulation, the access points were treated as two-way stop-controlled intersections.

### RESULTS

The intersections experienced unchanged LOS or dropped by one LOS category (e.g., from LOS B to C). The outcome of the simulation indicated that none of the intersections dropped below LOS D.

**Signalized Intersection Performance along California Avenue**

Intersection	a.m. peak hour				p.m. peak hour			
	Existing		Future		Existing		Future	
	LOS	V/C	LOS	V/C	LOS	V/C	LOS	V/C
Booth St.	B	0.77	C	0.84	B	0.30	C	0.43
Keystone Ave.	B	0.76	C	0.88	B	0.53	C	0.69
S. Arlington Ave./Clay St.	B	0.11	C	0.13	C	0.53	D	0.87
S. Sierra St.	A	0.49	A	0.58	A	0.58	B	0.73
S. Virginia St.	A	0.37	A	0.37	B	0.43	B	0.43

Overall, the results showed that implementation of a Road Diet along this section of road would likely reduce the overall LOS, but only to a level still deemed acceptable by the RTC of Washoe County. Based on this finding, the RTC concluded that the traffic simulation analysis provided enough support to proceed with the Road Diet, and it was implemented in 2010.

Source: Li, H. and Tian, Z., "Feasibility Evaluation of Road Diet Projects - A Case Study in Reno, NV" Accessed March 17, 2015. Available at: [http://www.westernite.org/annualmeetings/sanfran10/Papers/Poster%20Papers/ITE%20Paper\\_Poster-Li.pdf](http://www.westernite.org/annualmeetings/sanfran10/Papers/Poster%20Papers/ITE%20Paper_Poster-Li.pdf)



# Reno, Nevada – Wells Avenue

## ROAD DIET IMPROVES SAFETY FOR MOTORIZED AND NON-MOTORIZED USERS

### OBJECTIVE

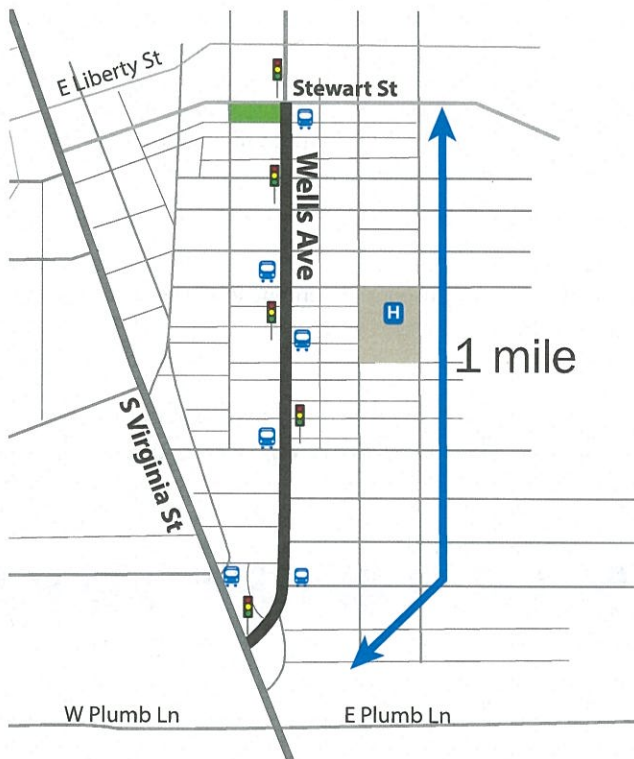
- Reduce crashes along the corridor
- Improve pedestrian and bicyclist safety

### FEATURES

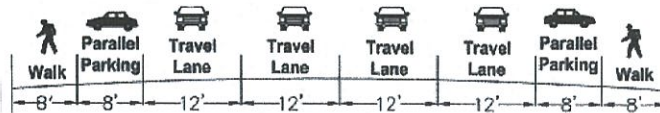
- Bicycle lanes
- Curb extensions
- Medians
- Crosswalks
- Pedestrian refuge areas

### RESULTS

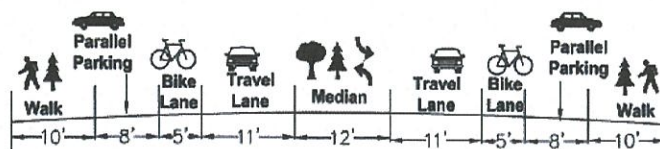
- More than 30% decrease in overall crashes
- Reduced pedestrian crashes by 54%
- Reduced speeds 5-9 mph



Wells Avenue after the completion of the Road Diet.



BEFORE



AFTER

In 2003, the Regional Transportation Commission (RTC) of Washoe County installed a Road Diet on Wells Avenue between Stewart Street and South Virginia Street in Reno, Nevada. This section of Wells Avenue spans mostly commercial property. The original 4-lane cross section of Wells Avenue was converted to one vehicle lane in each direction, a center turn lane, a dedicated bicycle lane on each side, and wider sidewalks. The modification maintained the existing on-street parking on the corridor.



## IMPLEMENTATION PLAN

The Road Diet on Wells Avenue was completed as a part of the RTC's Complete Streets initiative. The reconfiguration allowed for the addition of bicycle lanes and designated parking lanes, and the design integrated safety features such as curb extensions, frequent crossing opportunities, medians, pedestrian refuge islands, and lighting. To improve the aesthetics and livability of the corridor, the RTC also incorporated landscaping, benches, and public art into the project.

## RESULTS

Two years after the completion of the Road Diet along Wells Avenue, the RTC reported the reductions in crashes were most evident in rear-end, angle, and overtaking sideswipe crashes, which were the most common crash types prior to the modifications. The Road Diet is also credited with reducing the number of pedestrian crashes by 54 percent.

PEDESTRIAN  
CRASHES  
HAVE BEEN  
REDUCED  
BY **54%**

Crash Type	Before	After
Angle	33	19
Pedestrian	13	6
Rear End	52	43
Sideswipe, Overtaking	13	4
Head On	0	2
Sideswipe, Meeting	0	3
Rear-to-rear	0	1
Backing	0	2
Unknown	12	5
TOTAL	123	85

After the Road Diet, average traffic speeds had decreased between 5 and 9 miles per hour (14-24 percent reduction).

The roadway segment also experienced an approximate 10 percent drop in traffic volume (from 15,854 to 14,244 vehicles/day). Although RTC has not confirmed that the traffic has shifted to parallel streets, this sometimes occurs when a road undergoes a Road Diet.

The RTC reported no change to the road's level of service after the Road Diet implementation. The RTC speculates that this is likely due to the existence of exclusive left-turn lanes at signalized intersections. At unsignalized intersections, the exclusive two-lane left-turn lane provides improved service to main street left-turn and side street left-turn traffic.

Source: The Regional Transportation Commission of Washoe County, "Wells Avenue Traffic Study, Four-to-Three Lane Conversion, Final Report," June 1, 2008. Accessed March 23, 2015. Available at: <http://www.westofwells.com/PDIImages/docs2/WellsStudy%20Final.pdf>



# Staten Island, New York – Luten Avenue

## SAFETY SOLUTION NEAR SCHOOL IS A ROAD DIET

### OBJECTIVE

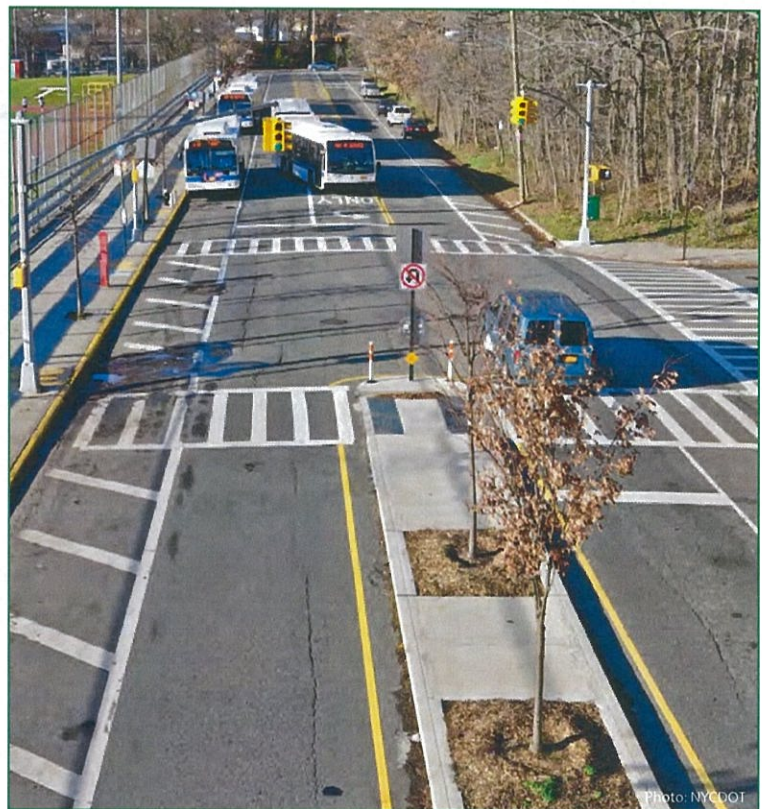
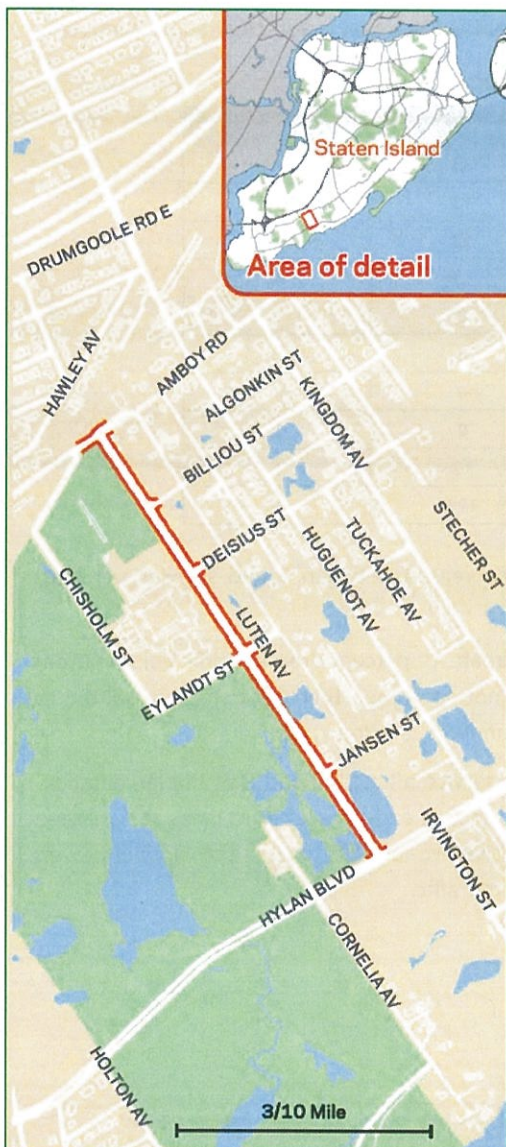
- Calm traffic
- Reduce speeding
- Improve pedestrian safety

### FEATURES

- High school and park
- Heavy pedestrian activity
- Medians and painted crosswalks
- Pedestrian refuge islands

### RESULTS

- Reduction in vehicles exceeding speed limit
- Improved pedestrian safety



The New York City Department of Transportation (NYCDOT) utilized the Road Diet concept to address safety issues along Luten Avenue in Staten Island by converting a 4-lane roadway to a 2-lane roadway with a center median and parking lanes.

With Luten Avenue running parallel to both Tottenville High School property and Wolfes Pond Park, the area experiences heavy pedestrian activity, especially during school hours and after school activities. The east side of Luten Avenue contains mainly dense vegetation with some access to residential areas.



# Staten Island, New York - Luten Avenue

## SAFETY SOLUTION NEAR SCHOOL IS A ROAD DIET



A Road Diet was installed along Luten Avenue to enhance safety for all road users.



A pedestrian refuge island improves safety for pedestrians near Tottenville High School.

### BACKGROUND

A tragic fatal crash involving a student pedestrian brought the NYCDOT, the Staten Island Community Board 3 (CB3), Tottenville High School, and other community groups together to formulate a plan for implementing safety strategies along Luten Avenue. They needed a treatment to reduce excessive speeds and to provide for safer pedestrian crossings.

NYCDOT used the information gained from these meetings to develop a proposed Road Diet on Luten Avenue, reducing the through lanes in each direction from two to one. To further narrow the roadway and calm traffic, the project included a painted center median and parking lanes. To address pedestrian safety, the agency installed pedestrian refuge islands and crosswalks. Along with a new signal at the intersection of Deisius Street and Luten Avenue, NYCDOT provided left-turn lanes at intersections along the corridor to improve traffic operations.

### RESULTS

NYCDOT reports that most segments along Luten Avenue have experienced reduced speeds due to the Road Diet, with a marked improvement of the vehicles traveling over the speed limit. **The percentage of vehicles exceeding the speed limit decreased by 34 percent along southbound Luten Avenue and decreased by 21 percent in the northbound direction.**

Crash data showed the number of crashes involving injuries to motor vehicle occupants and pedestrians after the Road Diet was lower than the average for the 3 years prior to project implementation.

**Crashes with Injuries along Luten Avenue - Amboy Road to Hylan Boulevard**

	Before* (3 previous years)			After
<b>Total Crashes with Injuries</b>	6	2	2	2.3
<b>Number of Crashes with Injuries to:</b>				
<b>Motor Vehicle Occupants</b>	5	1	0	1.7
<b>Pedestrians</b>	1	1	2	0.6

\* Before columns show the crash history for each of the 3 years immediately prior to project implementation. After column shows number of crashes since implementation (through January 2012) at annual rate.

Source: New York City DOT, "Sustainable Streets Index 2011." Accessed March 23, 2015. Available at: [http://www.nyc.gov/html/dot/downloads/pdf/sustainable\\_streets\\_index\\_11.pdf](http://www.nyc.gov/html/dot/downloads/pdf/sustainable_streets_index_11.pdf)



## Manhattan, New York - Ninth Avenue

### ROAD DIET ON ONE-WAY STREET DESIGNED FOR ALL USERS

#### OBJECTIVE

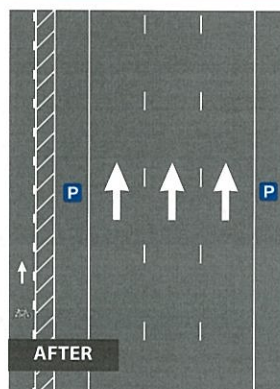
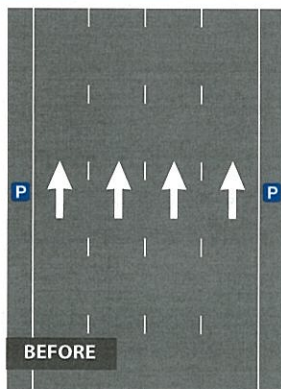
- Create a safer street that accommodates all users

#### FEATURES

- One-way street
- Parking, separated bicycle path
- Bicycle signals
- Pedestrian refuge islands

#### RESULTS

- 58% decrease in injuries for all users
- Improved bicyclist experience
- Project received ITE Best Program Award



#### BACKGROUND

In 2007, New York City Department of Transportation (NYCDOT) implemented a Road Diet that completely redesigned Ninth Avenue. Prior to the reconfiguration, Ninth Avenue, a one-way street, consisted of four through lanes with parking on both sides, but no bicycle facilities and few pedestrian safety features. The redesign included three through lanes, a separated bicycle path located between the parking lane and sidewalk, and pedestrian refuge islands.

Located within a very active and dense, mixed-use, central business district, the Ninth Avenue Road Diet extended from West 23<sup>rd</sup> Street to West 16<sup>th</sup> Street. NYCDOT's primary project goal was to create a safe street that would accommodate all road users.



*Turning onto Ninth Avenue and heading down the bike lane was a spectacular experience – I immediately felt comfortable and safe, and my stress level decreased by orders of magnitude.<sup>1</sup>*



Bicycle lane, parking, and pedestrian refuge island on Ninth Avenue.

## PLANNING AND DESIGN

During the planning and design process, NYCDOT communicated openly to determine potential issues and address concerns from stakeholders and community representatives. The design considered the needs of all street users including bicyclists, pedestrians, motorists, bus riders, delivery persons, and emergency response personnel. Design considerations included the following:

- DOT staff analyzed traffic volumes to ensure excess congestion would not occur with one less through lane.
- Designers placed the bicycle path between the parking lane and the sidewalk, creating a safe and comfortable atmosphere for bicyclists. New bicycle signals provided traffic control on the bicycle path.
- At intersections where vehicle left-turns cross over the bicycle lane, designers added left turn bays adjacent to the bicycle lane and provided protected turn phases to completely separate the conflicting through cyclist and left-turning vehicle movements.
- The project included pedestrian refuge islands, narrowing the crossing distance of Ninth Avenue for pedestrians by almost 30 feet. The design of the islands also accommodated an opening of 11 feet from the curb to allow for ease of curbside cleaning for the city's mechanical sweepers.
- Special parking locations were incorporated along the corridor such as commercial loading zones that utilize multi-space parking meters and parking spaces in high-use areas just for taxi drivers.



## RESULTS

"The innovative design [on Ninth Avenue] has created a safe, comfortable, and unique street that will be the foundation for the future expansion of our bicycle network in heavily trafficked areas of our city", says NYCDOT. "This groundbreaking design is one that can be utilized by other jurisdictions to promote bicycling while providing safe streets for all users."<sup>2</sup>

In 2008, the Institute of Transportation Engineers (ITE) honored the success and creativity of NYCDOT's Road Diet project on Ninth Avenue by awarding it the Transportation Planning Council Best Program Award. The project's success was confirmed further in 2012 when NYCDOT reported that Ninth Avenue experienced a **58 percent decrease in injuries to all street users**.<sup>3</sup>

<sup>1</sup> Nick Grossman, "Ninth Avenue Gets a Physically Separated Bike Lane" Streetfilms Blog, October 3, 2007. Accessed March 19, 2015. Available at: <http://www.streetfilms.org/ninth-avenue-gets-a-physically-separated-bike-lane/>

<sup>2</sup> R. Russo, R. Wade, J. Benson, C. Lucas, "Ninth Avenue Bicycle Path and Complete Street," page 6. Accessed March 19, 2015. Available at: [http://www.nyc.gov/html/dot/downloads/pdf/rr\\_ite\\_08\\_9thave.PDF](http://www.nyc.gov/html/dot/downloads/pdf/rr_ite_08_9thave.PDF)

<sup>3</sup> New York City DOT, "Measuring the Street: New Metrics for 21st Century Streets" page 4. Accessed March 19, 2015. Available at: <http://www.nyc.gov/html/dot/downloads/pdf/2012-10-measuring-the-street.pdf>



# Brooklyn, New York – Empire Boulevard

## ROAD DIET IMPROVES PEDESTRIAN SAFETY

### OBJECTIVE

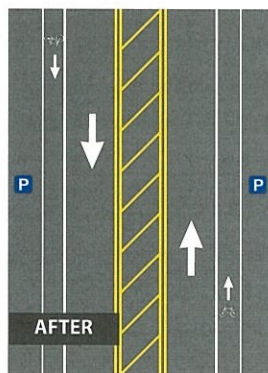
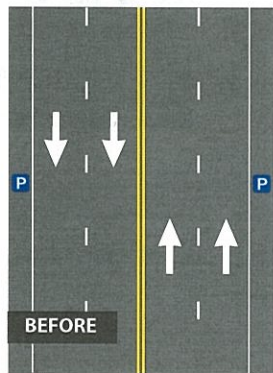
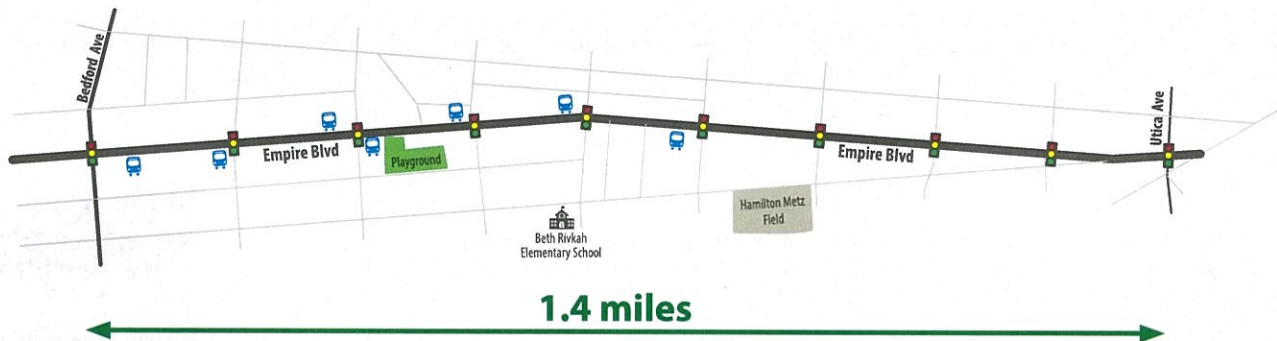
- Increase pedestrian safety and comfort
- Calm traffic
- Improve aesthetic of the overall streetscape

### FEATURES

- High number of crashes and speeding
- Public school, commercial and residential
- Pedestrian refuge islands
- Turn bays at intersections

### RESULTS

- 27% fewer injuries
- 9% decrease in total crashes



### BACKGROUND

In 2009, the New York City Department of Transportation (NYCDOT) implemented a Road Diet on Empire Boulevard between Utica Avenue and Bedford Avenue. The project aimed to increase pedestrian safety and comfort, calm traffic, and improve the aesthetic appeal of the overall streetscape.

The area surrounding Empire Boulevard is a mix of businesses, restaurants, and single-family and multi-family housing. There is a public school located on the east end of the corridor.



# Brooklyn, New York – Empire Boulevard

## ROAD DIET IMPROVES PEDESTRIAN SAFETY



BEFORE



AFTER

Road Diet treatment on Empire Boulevard has significantly improved pedestrian safety.

### SPEEDING AND PEDESTRIAN SAFETY

In 2007, the intersection of Empire Boulevard and Troy Avenue was listed as the second highest pedestrian crash location in New York City. Over the prior 10 years, the corridor had experienced a high proportion of mid-block crashes, including 6 fatalities and 33 serious injuries. NYCDOT found that the 85th percentile speeds during various times of day often exceeded the 30 mph statutory speed limit by 5-10 mph.

With data to support speeding and pedestrian safety concerns, NYCDOT sought changes for Empire Boulevard. The agency determined the existing 4-lane cross section was unnecessary for handling the traffic volumes occurring on Empire Boulevard. Since excessive capacity often encourages higher speeds, NYCDOT reduced the roadway cross section to two lanes (one in each direction) and allocated the extra space for bicycle lanes.

Under existing conditions, the length of the pedestrian crossing on Empire Boulevard was approximately 60 feet, with no raised medians to shelter pedestrians. The Road Diet plan included pedestrian refuge islands and shorter crossing paths. NYCDOT also added turn bays at intersections, preserved the parking spaces along Empire Boulevard, and improved the streetscape with trees and landscaping.

### RESULTS

NYCDOT's Road Diet project improved safety for nearly all users. Pedestrian injuries decreased by 19 percent and overall crash injuries reduced by 27 percent. The area also experienced noticeable reductions in motor vehicle crashes and total crashes. Ultimately, the new layout improved both bicycle and pedestrian accessibility and comfort by reducing vehicle speeds and incorporating bicycle and pedestrian safety features into the streetscape.

CRASHES AND INJURIES										
Three-Year After Analysis, Empire Boulevard (Bedford Avenue to Utica Avenue)										
	Before				After				Change	
	'06 - '07	'07 - '08	'08 - '09	Average	'09 - '10	'10 - '11	'11 - '12	Average	Actual	Percent
Total Crashes	268	297	301	288.7	284	251	252	262.3	-26.3	-9%
Injuries	88	77	74	79.7	73	62	67	67.3	-12.3	-15%
Motor Vehicle Occupant	109	119	81	103.0	61	71	68	66.7	-36.3	-35%
Pedestrian	35	29	19	27.7	28	21	18	22.3	-5.3	-19%
Cyclist	4	5	3	4.0	10	8	10	9.3	5.3	133%
<b>TOTAL INJURIES</b>	<b>148</b>	<b>153</b>	<b>103</b>	<b>134.7</b>	<b>99</b>	<b>100</b>	<b>93</b>	<b>98.3</b>	<b>-36.3</b>	<b>-27%</b>

Each before year is the 12-month period beginning June 1 and ending May 31. The 3-year after period is Sept. 1, 2009 to August 31, 2012. The implementation period of June 1, 2009 to August 31, 2009 is excluded. Source: NYPD AIS/TAMS Crash Database.



## Brooklyn, New York – West Sixth Street

### NYCDOT RESPONDS TO TRAGEDY WITH ROAD DIET

#### OBJECTIVE

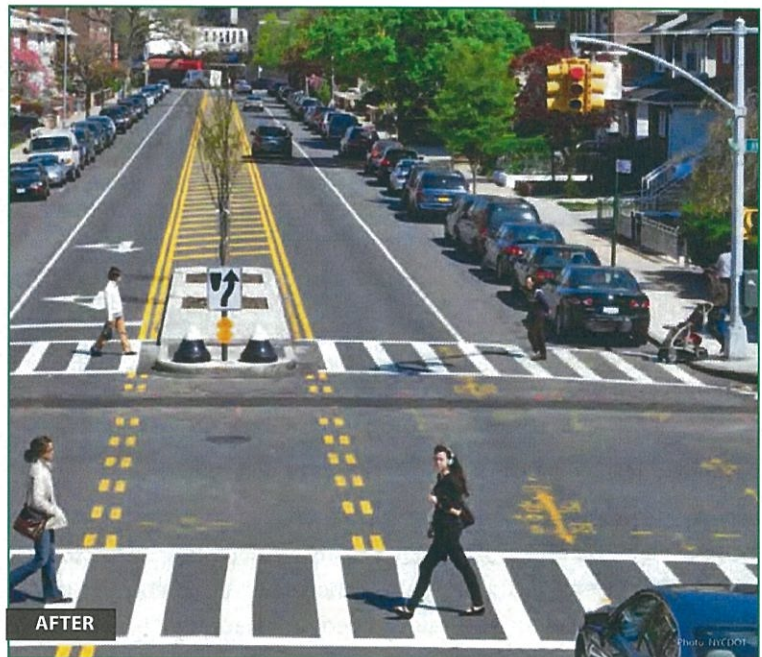
- Calm traffic
- Improve pedestrian safety in response to fatal crashes

#### FEATURES

- Residential neighborhood
- Four subway stops within corridor
- High speeds

#### RESULTS

- Lower speeds
- Reduction in crashes
- Pedestrian refuge islands improve pedestrian safety

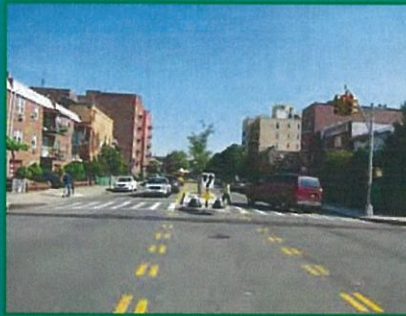


Following three pedestrian fatalities on the same roadway in Brooklyn, the New York City Department of Transportation (NYCDOT) conducted a study of West Sixth Street in November 2009. This 1.5-mile corridor carried fast-moving through traffic along with a high number of pedestrians heading to subway stations in the area. West Sixth Street was a 4-lane undivided arterial with excess capacity, long crossing distances for pedestrians, and significant separation between marked crosswalks, which led to illegal midblock crossings.

Located near residential neighborhoods, West Sixth Street runs parallel to the "N" subway train located one block to the west. There are four subway stops within the project corridor.



Crashes have been reduced and speeds have decreased along West Sixth Street since the Road Diet.



### THE PLAN

NYCDOT needed a solution to help calm traffic, reduce speeds, and improve pedestrian safety. Since West Sixth Street had excess capacity, NYCDOT adjusted the road to one vehicle lane in each direction and used the extra space to install a wide parking lane and painted median with left-turn bays at key intersections.

At the locations with a high frequency of pedestrian crashes, the agency installed pedestrian refuge islands and high visibility crosswalk markings. The design and installation of the pedestrian refuge islands included prohibiting some left turns to reduce conflicts with pedestrians and opposing left turning traffic.

### RESULTS

NYCDOT's plan effectively calmed traffic and improved safety along West Sixth Street. The agency analyzed crash data and performed speed studies along the corridor before and after the project was completed, with results indicating improved safety and speed reductions following the Road Diet.

Overall average speeds on West Sixth Street decreased by 8 to 12 percent, and the percentage of vehicles exceeding the speed limit showed a reduction of nearly 30 percent in the northbound direction and more than 40 percent in the southbound direction. The before-and-after crash analysis revealed a reduction in the number of injury crashes after installation.

#### CRASHES WITH INJURIES ALONG WEST 6TH STREET (65th St. to 86th St.)

	BEFORE (three previous years)			AFTER
	2008-2010	2011-2013	2014-2016	2017-2019
<b>Total Crashes with Injuries</b>	36	22	27	21.5
Number of Crashes with Injuries to:				
<b>Motor Vehicle Occupants</b>	15	11	14	8.8
<b>Pedestrian</b>	20	10	9	10.1
<b>Bicyclists</b>	1	1	4	2.5

WEST 6TH STREET (Avenue V to Avenue W)	Average Traffic Speeds (m.p.h.)		Percentage of Vehicles Over the Speed Limit	
	BEFORE	AFTER	BEFORE	AFTER*
<b>Northbound</b>	30.4	27.9	53%	34%
<b>Southbound</b>	31.3	27.7	60%	18%

\*After column shows number of crashes since implementation (through Jan 2012) at annual rate.

Source: New York City DOT, "Sustainable Streets Index 2011." Accessed March 23, 2015. Available at: [http://www.nyc.gov/html/dot/downloads/pdf/sustainable\\_streets\\_index\\_11.pdf](http://www.nyc.gov/html/dot/downloads/pdf/sustainable_streets_index_11.pdf)



## Seattle, Washington - Dexter Avenue

### TWO-STAGE ROAD DIET

#### OBJECTIVE

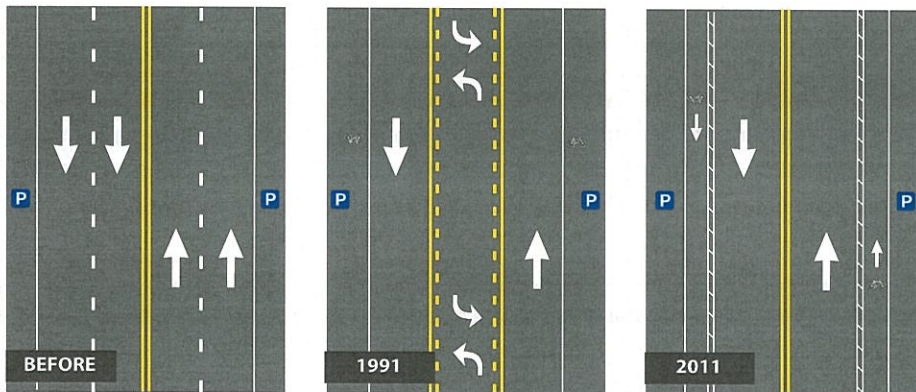
- Improve Dexter Avenue for all users

#### FEATURES

- Transit Route
- Converted from 4 to 3 to 2 lanes over time
- High bicycle volumes

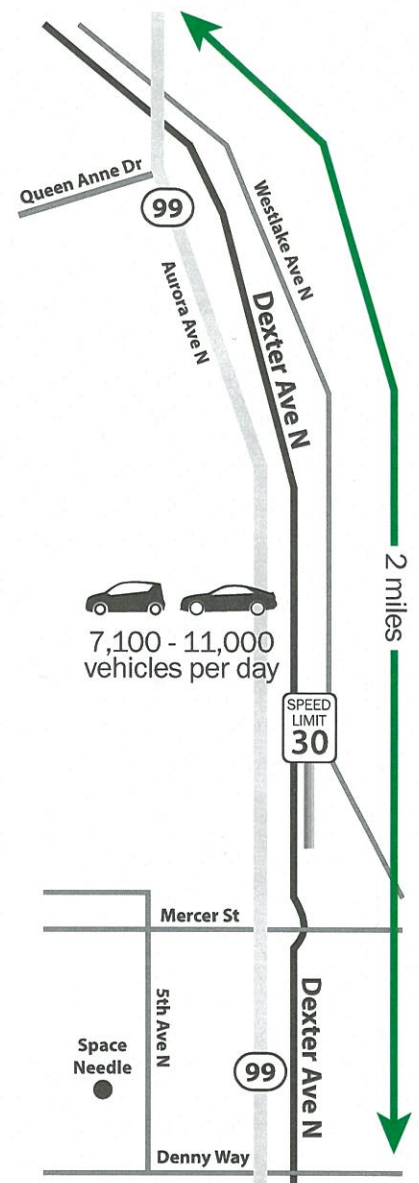
#### RESULTS

- Favorable public opinion
- Transit travel times remain consistent
- Bus ridership increased



#### BACKGROUND

More than 20 years ago, Seattle Department of Transportation (SDOT) completed a Road Diet on Dexter Avenue, converting it from a 4-lane roadway to a 3-lane roadway with a bicycle lane in each direction. In 2011, SDOT revisited the design during a planned repaving project. With traffic volumes ranging from 7,100 to 11,000 vehicles per day and a low volume of left-turning vehicles, the SDOT determined a center left-turn lane was unnecessary. Therefore, SDOT went one step further on its original Dexter Avenue Road Diet and converted the 3-lane roadway to a 2-lane roadway with buffered bicycle lanes and bus bulbs.







Bicycle lane and floating bus stop



Transit and non-motorized users are prioritized on Dexter



Bicycle rental station utilizes "extra space"

## DEXTER AVENUE IS THE PRIMARY BICYCLE CORRIDOR TO DOWNTOWN, WITH 300 SOUTHBOUND CYCLISTS IN THE AM PEAK HOUR.

Dexter Avenue runs north from Seattle's Belltown neighborhood, west of Lake Union. The street is located in a mixed-use area zoned for multi-family housing; the north end of the corridor contains primarily single-family homes.

### THE DESIGN

**Bicycle Lanes.** Initially, SDOT considered parking-separated bicycle lanes on Dexter Avenue, but with a high driveway density and relatively steep grade of the roadway, there was a concern that sight distance and visibility could be a safety issue. As an alternative, SDOT placed the bicycle lanes adjacent to the travel lane separated by a 2-ft buffered area.

**Transit.** SDOT prioritized buses over general purpose traffic by moving several bus stops to in-lane, creating bus bulbs. The bicycle lanes were routed behind the bus stop pads towards the curb, creating "floating" bus stops.

**Two-Way Left-turn Lane (TWLTL) Removal.** With Aurora Avenue (Washington State Route 99) running parallel near Dexter Avenue on one side and a bluff on the other, there are very few left-turns onto side streets. This allowed SDOT to feel comfortable removing the TWLTL in the corridor. At the few places with significant left-turns, SDOT added left-turn pockets when the two-way left-turn lane (TWLTL) was removed.

**Delivery Trucks.** The TWLTL had been used by delivery trucks when loading and unloading, so there was concern about losing this space. SDOT added "Load Zones" on the route to address this need.

### RESULTS

Public opinion on the Road Diet has been favorable, especially among bicyclists. Dexter Avenue is the primary bicycle corridor to reach downtown, with 300 southbound bicyclists per hour during the AM peak. During the same time, there are approximately 850 motorists per hour heading south. Transit travel times have remained consistent and bus ridership has increased by 30 percent between 2010 and 2013.

Source: National Association of City Transportation Offices (NACTO), "Seattle's Dexter Avenue Bus Bulb," *NACTO Urban Street Design Guide*. Accessed March 23, 2015. Available at: <http://nacto.org/usdg/street-design-elements/curb-extensions/bus-bulbs/>



## Seattle, Washington – Nickerson Street

### SAFETY IMPROVED & EXTREME SPEEDING VIRTUALLY ELIMINATED

#### OBJECTIVE

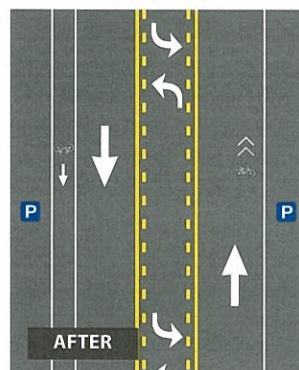
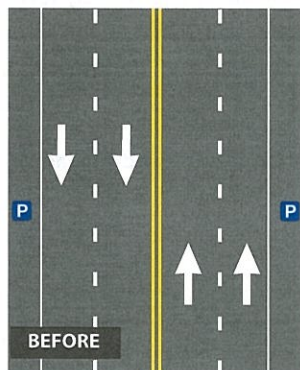
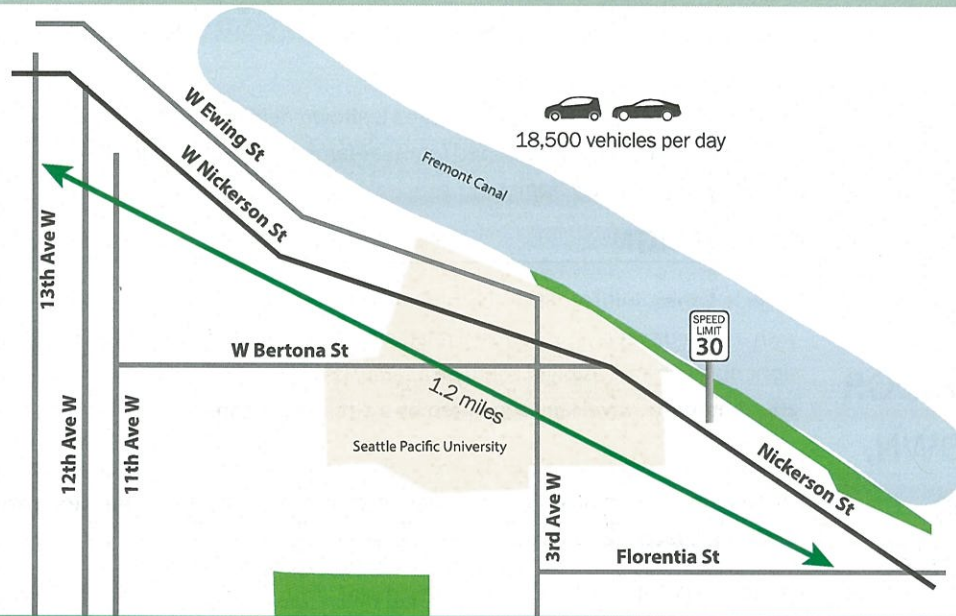
- Improve pedestrian safety
- Increase driver compliance with speed limit

#### FEATURES

- Reintroduction of crosswalks
- Addition of curb bulb-outs and pedestrian refuge islands

#### RESULTS

- 23% reduction in collisions
- More than 90% drop in top-end speeders



In August 2010, the Seattle Department of Transportation (SDOT) completed a Road Diet on Nickerson Street from 13th Avenue West to Florentia Street. The goal of this project was to improve pedestrian safety by reducing exposure to multiple lanes of traffic and increase driver compliance with the speed limit. Prior to the reconfiguration, there were two travel lanes in each direction. The street was restriped to one lane in each direction with a center two-way left-turn lane and bicycle lanes.

Carrying approximately 18,500 vehicles per day, Nickerson Street is in the Queen Anne neighborhood of Seattle. The corridor land use is mixed, including service-oriented businesses, restaurants, multi-unit residences, and the Seattle Pacific University campus.



# Seattle, Washington – Nickerson Street

## SAFETY IMPROVED & EXTREME SPEEDING VIRTUALLY ELIMINATED



To improve pedestrian safety, the Road Diet project incorporated crosswalks with curb bulb-outs and pedestrian refuge islands

### BACKGROUND

Prior to the Road Diet, SDOT was removing mid-block crosswalks on the city's 4-lane roads due to safety considerations. This decision was not popular with the community, and as a way of addressing the concerns, SDOT implemented the Nickerson Street Road Diet, which included the reintroduction of marked crosswalks and addition of curb bulb-outs and refuge islands. This configuration provides an opportunity for increased safety since pedestrians do not have to cross all lanes of traffic at once.

By decreasing the travel lanes to only one in each direction, SDOT also hoped to lower the speeds along Nickerson Street. In 2007, the agency completed a speed study and found that 90 percent of drivers were exceeding the 30 mph speed limit.

### RESULTS

One year after the conversion, SDOT completed a before-and-after study on the Nickerson Street Road Diet. The outcome was what SDOT had hoped for – a safer road. Speeding along Nickerson Street decreased dramatically, and collisions were reduced. The results also showed that the Road Diet accomplished this without significant diversion of traffic to parallel routes. Nickerson Street only experienced a 1 percent decrease in traffic volumes between 2009 and 2011.

TOP END  
SPEEDERS  
HAVE BEEN  
REDUCED BY  
MORE  
THAN **90%**

TOP END SPEEDERS			
Percent 10+ mph over the speed limit			
	Before	After	Change
Westbound	17%	1.4%	-92%
Eastbound	38%	1.5%	-96%

CHANGE IN NUMBER OF COLLISIONS		
from 13th Ave W to N Florentia St		
5-Year Average	One Year Post Project	Change
33.6	26	-23%

Source: City of Seattle Department of Transportation, "Nickerson Street Rechannelization Before and After Report," 2012.



## Seattle, Washington – Stone Way

DESPITE EARLY OPPOSITION, ROAD DIET PRODUCES GREAT RESULTS

### OBJECTIVE

- Improve facility for bicycling
- Improve pedestrian safety

### FEATURES

- Repaving project
- Parks, trail, and zoo
- Nearby school and bus route
- Local business opposition

### RESULTS

- Reduction in vehicles exceeding speed limit
- Improved pedestrian safety
- Increased bicycle usage



As part of a repaving project in 2007, Seattle Department of Transportation (SDOT) completed a Road Diet on Stone Way from 34th Street to 45th Street. It was the twenty-third lane reduction project undertaken by the city since 1972. Along with implementing the Stone Way Road Diet, the city also adopted a Bicycle Master Plan, which aimed to make Seattle the best community for bicycling in the United States.<sup>1</sup> The Stone Way conversion supported this new initiative by adding bicycle lanes.

Connecting the Fremont and Wallingford neighborhoods in Seattle, Stone Way is a north-south arterial that carries approximately **13,000 vehicles per day** and numerous **Metro bus routes**. There are many pedestrian generators in the area including parks, a trail, the Woodland Park Zoo, and several schools.

<sup>1</sup> City of Seattle, "Seattle Bicycle Master Plan," 2007.



# Seattle, Washington - Stone Way

## DESPITE EARLY OPPOSITION, ROAD DIET PRODUCES GREAT RESULTS



The Stone Way Road Diet improved pedestrian and bicycle safety by incorporating pedestrian refuge islands and a combination of shared lanes and bicycle lanes.

### OPPOSITION AND SUPPORTERS

Although the residents in Seattle were not strangers to Road Diets, there remained some strong opposition to the proposed Stone Way reconfiguration. Local business owners felt Stone Way is a vital arterial and should not be changed. "We need the road. We need to move traffic, particularly trucks. It's not a good idea to narrow the street down because traffic will overflow on other streets. This is our arterial. We want the four lanes of traffic."<sup>2</sup>

On the other hand, the bicycle activist community in Seattle vigorously supported the implementation of the project by organizing traffic counts, a demonstration ride, and commissioning an outside consultant report that asserted that undue congestion would not occur.<sup>3</sup>

### RESULTS

In 2010, SDOT completed a before-and-after study to evaluate the effects of the Stone Way Road Diet. The results are as follows:<sup>4</sup>

- **Top-end speeders reduced.**  
Top speeders (those traveling more than 10 mph over the speed limit) decreased by more than 80 percent.
- **Collisions reduced.**  
Total collisions were reduced by 14 percent and injury collisions decreased by 33 percent.
- **Pedestrian crossings are safer.**  
Pedestrian collisions were reduced by 80 percent.
- **Bicycle volume has increased.**  
The volume of bicyclists increased 35 percent from 2007 to 2010.
- **Motor vehicle traffic has not diverted to neighborhood streets.**  
Daily traffic counts on parallel streets are down by 12 to 34 percent, which is a greater decrease than the slight decline of 6 percent recorded on Stone Way.
- **Peak hour capacity has been maintained.**  
The study confirmed the corridor has sustained its capacity to carry the same number of motor vehicles in spite of the reduction in the number of travel lanes.

<sup>2</sup> S. Gilmore, "City Wants to Put Four-Lane Stone Way on Road Diet" *The Seattle Times*, October 12, 2006. Accessed March 23, 2015. Available at: <http://www.seattletimes.com/seattle-news/city-wants-to-put-four-lane-stone-way-on-road-diet/>

<sup>3</sup> S. Ullman, "Stone Way: 1 of 34 Rightsizing Projects Making Seattle Safer and More Livable" Project for Public Spaces. Accessed March 23, 2015. Available at: <http://www.pps.org/reference/stone-way-one-of-34-rightsizing-projects-making-seattle-safer-and-more-livable/>

<sup>4</sup> "Stone Way N Rechannelization: Before and After Study, N 34th Street to N 50th Street," City of Seattle Department of Transportation, May 2010



## Indianapolis, IN - Indianapolis Cultural Trail

### ROAD DIETS LEAD TO ECONOMIC DEVELOPMENT

#### OBJECTIVE

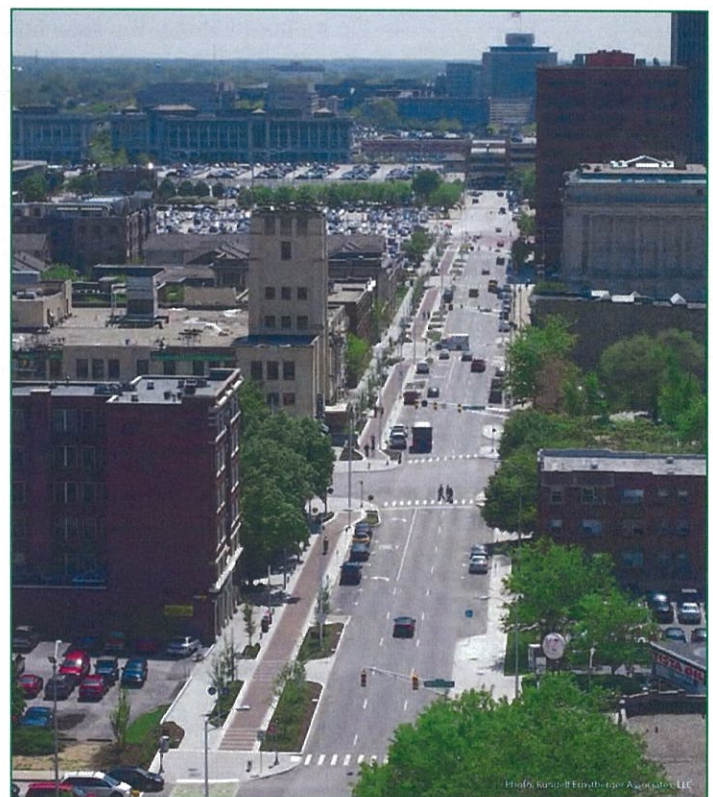
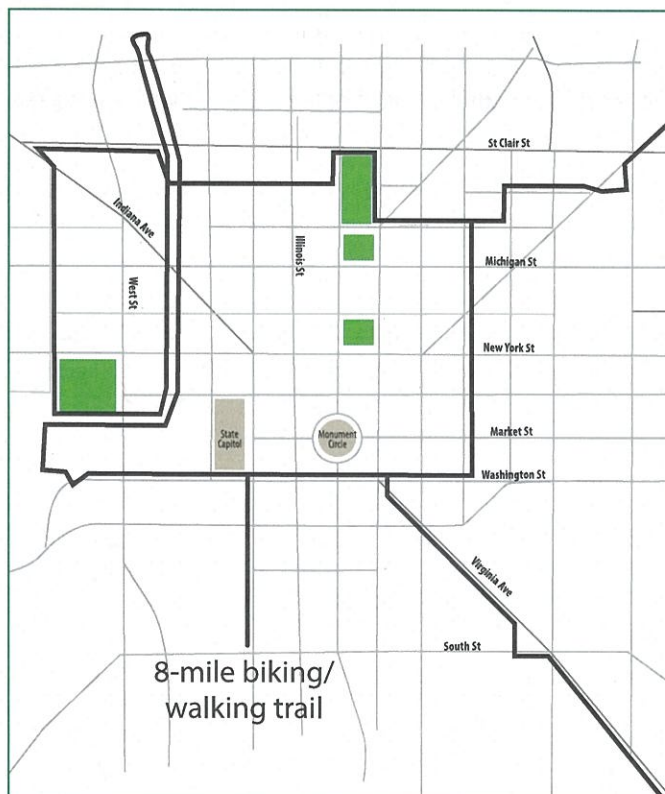
- Improve interconnectivity among Indianapolis' cultural districts, neighborhoods, and greenway systems
- Improve safety for all users

#### FEATURES

- Public-private partnership
- Bicycle and pedestrian trails
- Cultural Trail used as marketing strategy by Indiana Visitor's Bureau

#### RESULTS

- Improved economic development
- Significant increase in pedestrian and bicycle traffic in downtown Indianapolis



Alabama Street

The City of Indianapolis, through a public-private partnership, completed the Indianapolis Cultural Trail, an 8-mile biking and walking trail system that connects the cultural districts, neighborhoods, and the city's greenway system. In order to complete this trail system, streets in downtown Indianapolis underwent Road Diets.

The streets in downtown Indianapolis were mostly five or six lanes wide, and speeds could reach close to 50 mph. The design team reduced both the number of lanes and lane widths as a way of both slowing speeds and gaining extra space within the right of way to allow for the separate pedestrian and bicyclist trail. The completed trail loops around downtown and connects to greenways with two spurs. The trail includes shared space for bicyclists and pedestrians, and some areas incorporate two separate facilities for pedestrians and bicyclists.



# Indianapolis, IN - Indianapolis Cultural Trail

## ROAD DIET LEAD TO ECONOMIC DEVELOPMENT



The ICT has brought a significant increase in pedestrian and bicycle traffic to downtown Indianapolis.



Pedestrian travel is separated from bicycle travel on this segment of ICT.



Riding the Pacers Bikeshare on the Cultural Trail.

### PUBLIC OUTREACH, PLANNING, AND DESIGN

Central Indiana Community Foundation (CICF) and the Mayor of Indianapolis envisioned that by providing improved multi-modal connectivity throughout Indianapolis' cultural districts and historic neighborhoods, economic development in the area would improve. Leaders of the proposed trail project spent years explaining the potential benefits to politicians, philanthropists, and community officials and collecting private donations.

With the project consisting of seven phases and construction lasting almost 6 years, team members felt their commitment to public involvement and engagement throughout was a key component of the project's success. Early in the conceptual phase, the design team held a workshop to present the concept to the stakeholders. The team created a project website with up-to-date progress information and conducted many public meetings throughout the duration of the project.

Improving safety for all users was one of the project team's goals. In addition to the traffic calming effect the Road Diets provided, the design also included other safety features, such as curb bulb-outs at intersections to reduce crossing distance, chicanes in the bicycle facilities to alert bicyclists of an upcoming intersection, and countdown timers and audible pedestrian signals.

### RESULTS

Although the last phase of the trail was not completed until the end of 2012, new construction and redevelopment started happening in the area well before the project was finished. Over \$300 million of new development has been constructed along the route since 2008. While tax assessment data from 2007-2010 from nearby areas decreased by 1.2 percent, the assessed value along the Cultural Trail showed a small increase.

Using the Cultural Trail as its main marketing strategy, the visitor's bureau sees the trail's influence in downtown revitalization success. Vacant lots are being developed into restaurants and businesses. Local developers have opened several mixed-use, multi-family residential developments.

This innovative redesign of the area has improved economic development and has brought a significant increase in pedestrian and bicycle traffic to downtown Indianapolis as people of all ages and abilities have embraced the trail.

Source: Pedestrian & Bicycle Information Center, "Indianapolis Cultural Trail", webpage. Accessed March 18, 2015.  
Available at: <http://www.pedbikeinfo.org/data/library/details.cfm?id=4919>

OVER \$300  
MILLION  
OF NEW  
DEVELOPMENT  
HAS BEEN  
CONSTRUCTED  
ALONG THE  
ROUTE SINCE  
2008.





U.S. Department of Transportation  
**Federal Highway Administration**

PUBLICATION: FHWA-SA-15-052

[http://safety.fhwa.dot.gov/road\\_diets](http://safety.fhwa.dot.gov/road_diets)



**Desiree Jimenez**

---

**From:** Linda Krausen [REDACTED]  
**Sent:** Monday, October 16, 2017 5:56 PM  
**To:** CCO  
**Subject:** Item 19 Oct 18 (ubic Agenda:

TO: Honorable Mayor, and Councilmembers:

Referencing Item 19 on Oct 18th agenda:

I remember the public session on this item: those who work in the surrounding businesses on mission and F.O. found the 2 hour parking limit to interfere with their ability to serve the clients of our small businesses along those two corridors in a professional manner, requiring them to leave their clients in the middle of treatment to attend to the parking lot requirements. Naturally this is not good for the businesses nor for keeping good good workers in those stores.

Four hours sounds better, to be sure, but could their also be a special tag or hang-down for those who work in the stores affected that they leave on their cars to alert enforcement that they are exempt from the parking restriction from x time to x time? That would help them and help the client relations of those businesses and seem much more professional. The permit could be just given to the business as a business enhancement bonus for the City. who would in turn lend it to the worker on a until employment there ceases. Seems that would be a less hassled solution than a time limit , especially since a normal shift is 8 hours.



**Desiree Jimenez**

---

**From:** John Vandercook [REDACTED]  
**Sent:** Wednesday, October 18, 2017 9:04 AM  
**To:** CCO  
**Subject:** October 18, 2017, City Council Meeting, Agenda Item 19: Comment from John Vandercook

October 18, 2017  
City Council Meeting

Agenda Item 19: Comment

Good Evening Mr. Mayor and Councilmembers;

I whole heartedly support adopting the Resolution modifying the two hour parking restriction to four hours every day at the city owned parking lot located at Hope Street and Mound Avenue.

The South Pasadena Chamber of Commerce and the City of South Pasadena are working in partnership to promote successful economic development and an attitude of "Shop Local."

Giving patrons an extended holiday parking opportunity to enjoy a shopping and dining experience where they have time to frequent several businesses is a win, win for South Pasadena.

Thank you for expediting this important opportunity.

Best,  
John Vandercook

Reimagine Your Home  
Business Owner  
1518 Mission Street  
South Pasadena, CA 91030  
626-799-3656

*RE*Imagine  
YOUR HOME  
FLOORING & WINDOW DESIGN  
1518 Mission Street  
South Pasadena, CA 91030  
626-799-3656  
[www.reimagineyourhome.com](http://www.reimagineyourhome.com)



Virus-free. [www.avast.com](http://www.avast.com)

CC: Council; CM; CA; CCC; MUN; Reference Binder; <sup>1</sup>Original to 10/18/2017 Addl Docs 10/18/17 City Council Mtg. Additional Material AGENDA ITEM # 19