



NJDOT
Office of
Bicycle and Pedestrian Pr

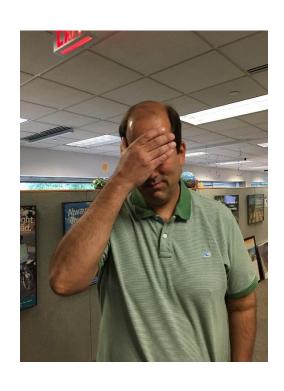
**Bicycle and Pedestrian Programs** 



#### Office of Bicycle and Pedestrian Programs



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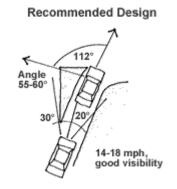




#### Office of Bicycle and Pedestrian Programs

- Complete Streets/ADA
- NJDOT Project Review
- Stand-Alone Bike/Ped Projects
- Safety Teams, RSAs, SHSP
- Roadway Design Manual
- Legislation/Policy
- Local Planning Assistance
- Safe Routes to School
- Senior Mobility Workshops





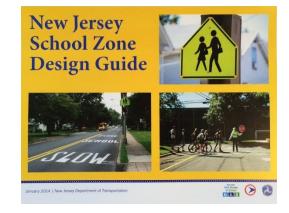




#### Resources

#### **On-Call Consultants**

- Local Planning Assistance
- Bike/Ped Master Plan
- Safe Routes to School



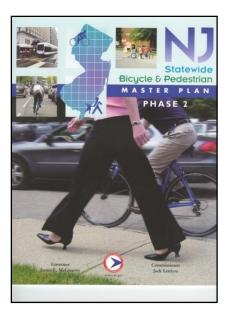


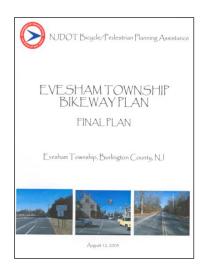












#### **Complete Streets Implementation**





#### **Complete Streets Outreach**

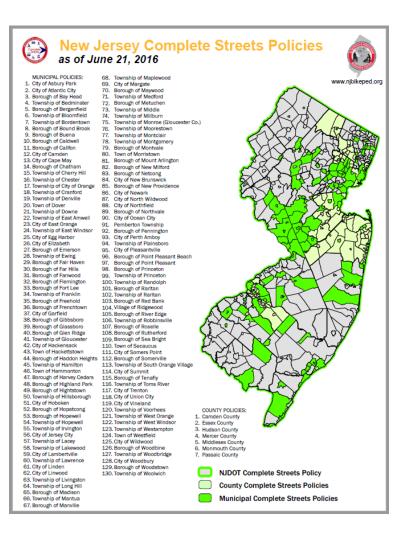




- Complete Streets Summits and award presentations (2010, 2013, 2015)
- Regional workshops on policy and design for Complete Streets (2012)
- NJ Complete Streets Plan
   Development and
   Implementation Guidebooks
- Complete Streets Video (2015)
- Road Diet Video (2016)
- Complete Streets Design Guide (coming soon)



#### **Local Complete Streets Policies**





(from the NJDOT Road Diet video)



#### **Complete Streets Training**



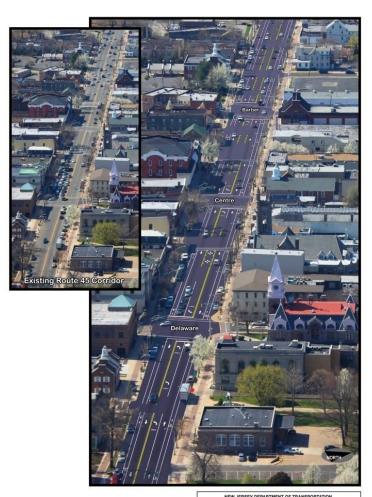
Photo source: RBA Group

- Trained all in-house NJDOT engineering and planning staff on Complete Streets
- 2. Trained all new Civil Engineer Trainees



#### **Complete Streets Projects**





Route 45, Woodbury Road Diet

REW JERSET DEPARTMENT OF TRANSPURIATION

ROUTE 45 WOODBURY TRAFFIC STUDY
CITY OF WOODBURY, GLOUGESTER COUNTY

EXISTING & PROPOSED ROUTE 45 CORRIDOR AERIALS

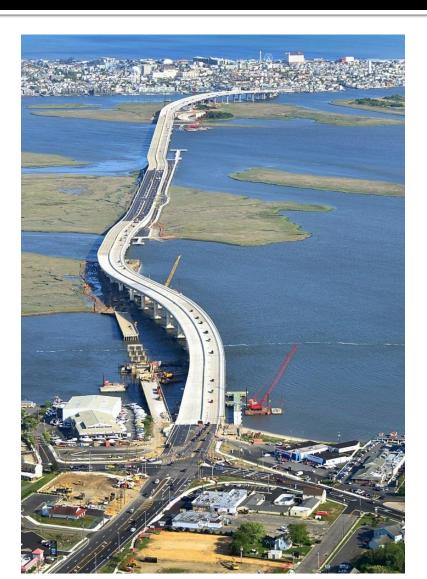
#### **Complete Streets Projects**

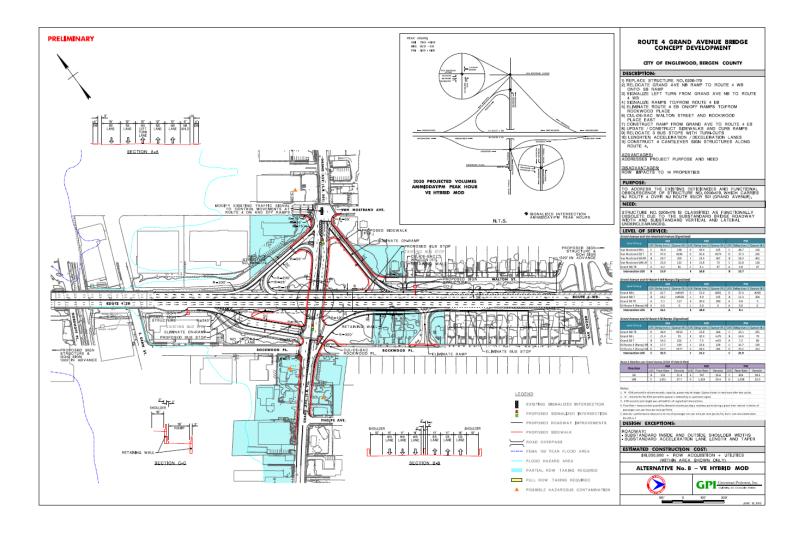




Route 52 Causeway Bridge Replacement Somers Point and Ocean City Atlantic and Cape May Counties

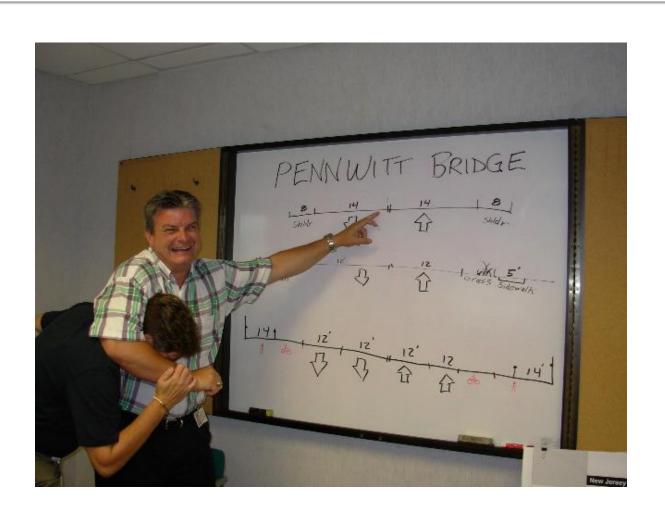


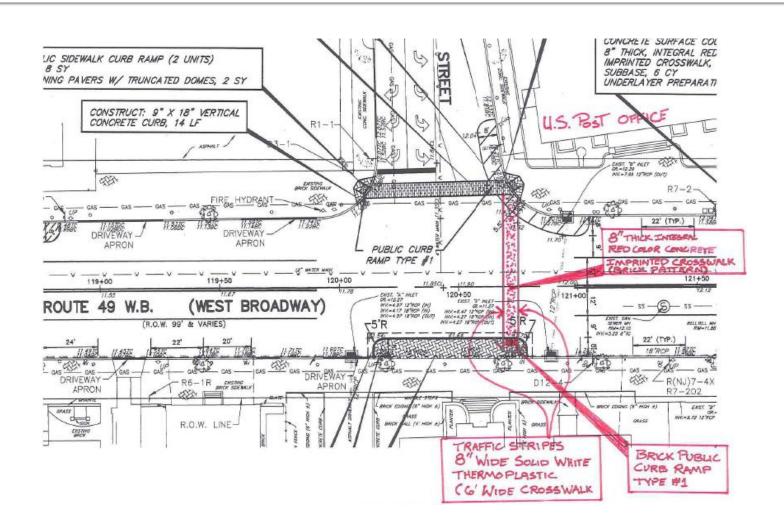














### **Stand Alone Bike Ped Projects**











## Stand Alone Bike Ped Projects













### **Bicycle Touring Routes**





#### Select a Tour Guide

Allamuchy Allegory Ride
Battle of Monmouth Ride
Bayshore Byways
Burlington County Bikeways
Campgaw Caper
Columbia Trail
Cumberland Salem Revolution

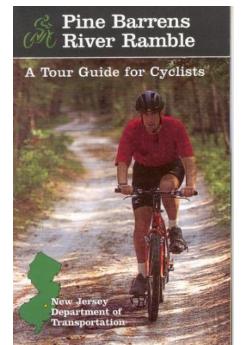
D&R Canal Towpath Ride
Double Trouble
East Coast Greenway
Explore the Jersey Shore:
Cape May to Somers Point
Somers Point to Tuckerton
Tuckerton to Brick

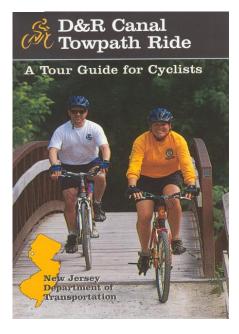
Brick to Sandy Hook Gloucester County Country Tour Great Swamp Ride Greenwood Lake High Point Cape May Bike Route Jersey City to Hoboken Waterfront Last Covered Bridge Ride Old Mine Road Ride Pine Barrens River Ramble Round Valley Roundabout

The Cape May Shoreline Ride The North Shore and More Three Easy Scenic River Rides Washington Rock & Roll Tour



al Statement | Accessibility Statement







#### Statewide Pedestrian Safety Study

#### Phase I (1997)

- NJDOT Bureau of Statewide Planning
- 1993-96 data
- locations with highest number of fatal pedestrian crashes

#### **Phase Two (2003)**

- NJDOT Bureau of Traffic Safety
- New data and methodology (Crash Severity Index)
- Worst 60 pedestrian crash sites cross-referenced with worst 100 vehicle crash sites

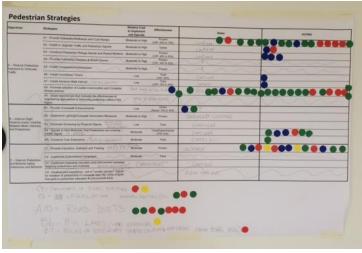






## Strategic Highway Safety Plan









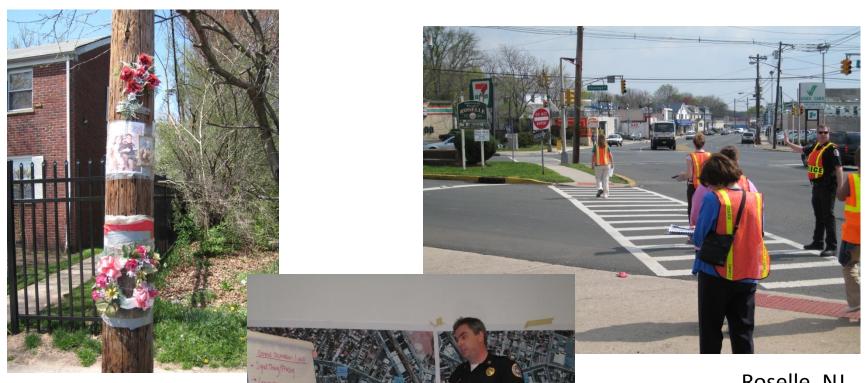








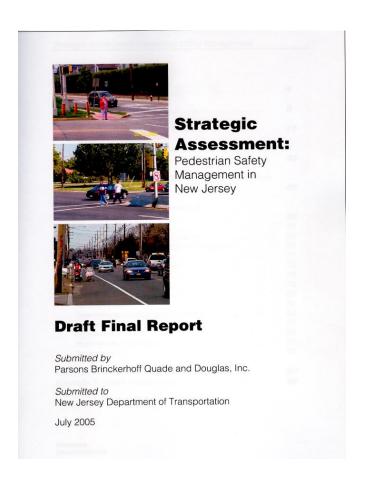








#### **Pedestrian Safety Management System**







## **Pedestrian Safety Projects**

		• • • • • • • • • • • • • • • • • • • •		Reg. North	
Route 202 MP 46.4 - 46.9 Morris Plains	Sidewalk	\$120,000.00	Complete	Maint	Contract of the last
Route 46 Beverwyck-Baldwin Rds. Par-	a	<b>*</b> 70 000 00	0	Region N.	
Troy Hills	Sidewalks	\$70,000.00	Complete	Maint.	
Route 10 Mt. Pleasant Ave	Sidewalk for St. Raphaels Church	\$17,000.00	Complete	Region N. Maint.	E
Route 10 Mt. Fleasant Ave	Citaren	\$17,000.00	Complete	Reg. North	
Route 46 EB MP 36.3 -36.7 Mine Hill Twp.		\$47,000.00	Complete	Maint	
	Sidewalk, curb ramps,				
Route 22 @ Glenside & Harding Rds	crosswalk & guide rail	*** ***		Region N.	
Scotch Plains	modifications	\$62,000.00	Complete	Maint.	
Route 322 Glassboro-Rowan Ped	New ped xings w/IRWL, bus pull off	\$450,000.00	Complete	Operations	
Improvements	pull off	\$450,000.00	Complete	Reg. North	
Route 23 Sussex Borough	Replace sidewalk	\$310,000.00	Complete	Maint	
Route 10 Livingston Harvest - Prospect			•		
Ph. 1 & 2	Sidewalks	\$626,000.00	Complete	Region N. Ma	
Route 9/166 Beechwood	Pipe 4 breakout-sidewalk etc.	\$500,000.00	Complete	Operations	
Route 130 NB Assicunk Creek Bridge	Sidewalk, safety fence, g.r.			Region S.	
Burl. City	removal	\$32,600.00	Complete	Maint.	
Route 45 Woodbury (Pipeline 4 project)	Curb ramps, crosswalk striping	\$11,000.00		Region S. Maint.	
Route 130 SB MP 38.5 - 39.0				Region S.	0
Delran/Cinnaminson	Sidewalks	\$90,000.00	Complete	Maint.	
		\$6,679,150.00			
Route 73/Church Rd. MP 26.56 Mt. Laurel	4 curb ramps T.E. work order	\$8,700.00	Construction	Region S. Ma	and a market
Route 9/Shellbay Ave. (SJTPO) Middle	·			Region S.	
Twp.	Sidewalk on southbound side	\$43,000.00	Construction	Maint.	
			Construction	Region C.	
Route 35 Perth Amboy	Sidewalk	\$60,000.00	soon	Maint.	
Route 1/9 Liberty Water Gap Jersey City	New sidewalk	\$149,000.00	Design	Design Servi	
Route 1/9 Liberty Water Gap Kearny	New sidewalk	\$142,000.00	Design	Design Servi	
Route 22 Ped Improvements Somerset	Intersection improvements/				
County	electrical	\$50,000.00	Design	Design Servi	
Route 27 Eliz Roselle Linden (PED					
CORRIDOR)	New Sidewalk	\$100,000.00	Design	Design Servi	-
Route 27 Rahway (ECG Project)	New sidewalk	\$15,000.00	Design	Design Servi	A START
Route 28 Cranford (ECG project)	New Sidewalk	\$30,000.00	Design	Design Servi	
	New Sidewalk	\$63,000.00	Design	Design Servi	
		. ,			



#### **Safety Accomplishments**

- 174,000 linear feet of sidewalk installed (14.7 million state TTF dollars since 2006)
- Pedestrian Safety Road Audits conducted on 7 top pedestrian fatal corridors.
  - \$3 million (TTF) invested on these corridors with improvements; new or replaced sidewalk, new crosswalks, new pedestrian countdown signals, geometric improvements, new ADA curb cuts, etc.





#### Safety Accomplishments

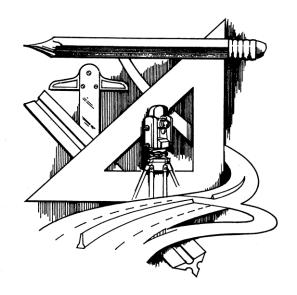
- 26 Safe Streets to Transit grants awarded to towns
  - 4.07 million state TTF dollars invested
- More than 270 pedestrian safety projects carried out or funded at the local level by NJDOT since 2007
- New technology being used: Rectangular Rapid Flashing Beacon, High Intensity Activated Pedestrian Signal, sharrows, enhanced crosswalks



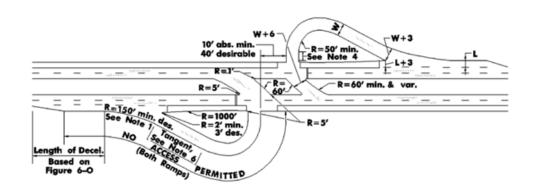
#### NJDOT Roadway Design Manual

NEW JERSEY DEPARTMENT OF TRANSPORTATION

DESIGN MANUAL - ROADWAY



**U.S. Customary English Units** 

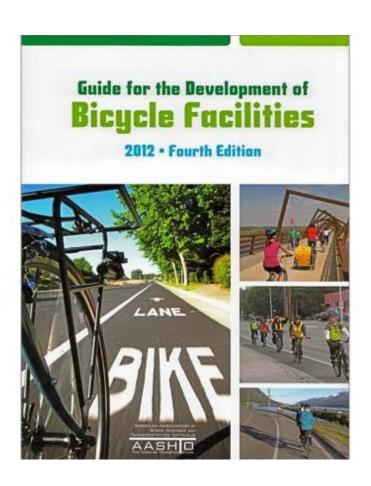


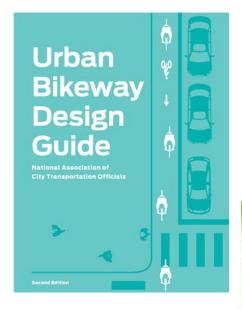
#### Three new chapters in 2006:

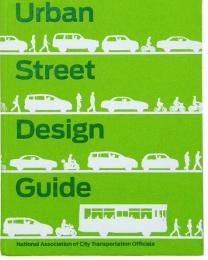
- Bicycle Design
- Pedestrian Design
- Traffic Calming



#### **Best Practice in Design**





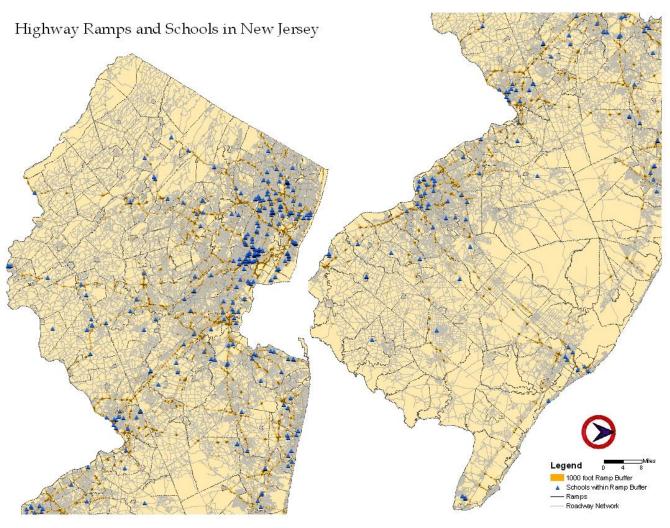


## NJDOT Research









#### Alan M. Voorhees **Transportation Center**

#### **Resource Centers**







## NEW JERSEY Safe Routes to School

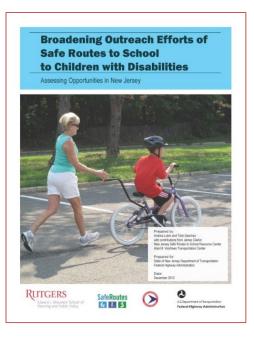


- Research, Training, Conferences
- NJ SRTS Coalition
- SRTS Listserv and Blog
- CROSSING GUARDS website





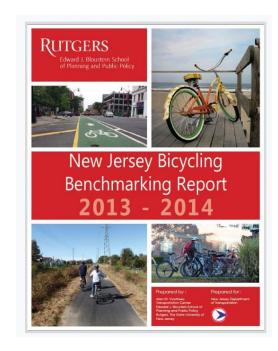




#### **Resource Centers**



- Research, Training, Conferences
- NJ Bike/Ped Advisory Council
- NJ Bike/Ped Listserv
- NJ Ambassadors in Motion (AIM)







#### **NJ Bicycle and Pedestrian Advisory Council**





STATE OF NEW JERSEY

#### Four Subcommittees

- Design
- Safety
- Legislative
- Education







MOTOR VEHICLE COMMISSION







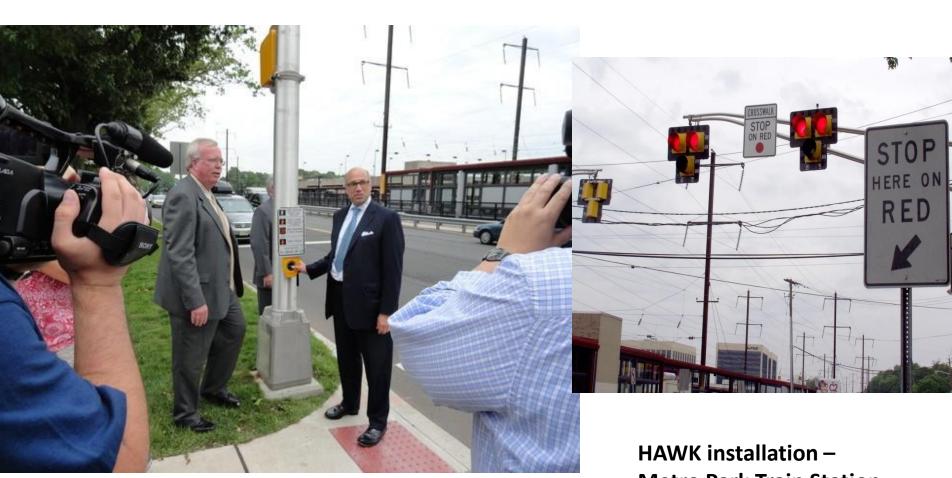








### New Designs and Technologies



Metro Park Train Station
May 2012

### Safety and Enforcement



Ranjit Walia, Civic Eye Collaborative

### **Pedestrian Safety Enforcement Operations**







Dale Mincey/The Nutley Sun

### Legislation and Policy

### STOP and stay STOPPED





I. PURPOSE

To outline Department Policy in regard to addressing bicycle and pedestrian travel in the planning, design, construction and operation of transportation facilities funded or processed by NJDOT, and the development and implementation of transportation programs.

II. DEFINITIONS

N.A.

III. POLIC

Bicycling and walking are viable and important travel modes and offer untapped potential for meeting transportation needs and providing necessional and health benefits. Provisions for bicycling and walking are important and necessary elements of comprehensive solutions to transportation problems and needs. Opportunities should be actively sought to address transportation needs and deficiencies through the provision of bloycle and pedestrian accommodations. These modes can also supplement transit use and replace montor vehicle trips by serving short trips.

It is the Department's policy to provide non-motorized travel options by routinely integrating bicycling and walking into transportation systems and promoting bicycling and walking as a preferred choice for short trips.

Bicycle and pedestrian issues will be routinely addressed as part of the activities of all units of the Department. Basic research and data gathering efforts should include data collection and analysis for the non-motionized modes. Beginning at the earliest stage of needs analyses and problem definition, and continuing through the entire proced development process, bicycle and pedestrian travel needs shall be incorporated in the planning, scoping, design, construction, and management of all transportation projects and programs funded or processed by the NLDT.

Transportation facilities are to be designed and constructed, and maintained to accommodate use by bicycle and pedestrian traffic. Additionally, independent projects will be initiated to address bicycle and pedestrian access and safely medic or opportunities and correct deficiencies in the transportation system which will while the use of hese modes. When needs or opportunities are identified, coadway improvements, bleways, walkways or other facilities intended to encurage or suport travely brighcycle making should be designed and constructed.

IV. AUTHORITY

N.J.S.A. Title



NJ Bike and Walk Coalition





### Education

### THIS IS A WARNING

### YOU HAVE JUST FAILED TO STOP FOR A PEDESTRIAN IN A CROSSWALK

The law is clear (see reverse side).

Motorists in New Jersey MUST stop for pedestrians in a orosswalk. Failure to observe the law may subject you to one or more of the following:

- 2 POINTS
- \$200 FINE (plus court costs)
- 15 DAYS COMMUNITY SERVICE
- INSURANCE SURCHARGES



### YOU HAVE JUST FAILED TO USE **DUE CARE AS A PEDESTRIAN**

The law is clear, pedestrians must obey pedestrian signals and use orosswalks at signalized intersections. Both earry a \$54.00 fine for failure to observe the law. (C.39:4-32 and 33)

This initiative is provided as an educational tool to foster public awareness about pedestrian safety and ultimately reduce injuries and deaths.







Tim Farrell/The Star-Ledger

### **SHARED LANE MARKINGS** ALSO KNOWN AS "SHARROWS"

### 1. What are Shared Lane Markings?

Shared Lane Markings are symbols painted in the roadway to indicate a shared lane environment for bicyclists and motorists.

### 2. How do Shared Lane Markings benefit bicyclists? Shared Lane Markings reinforce the legitimacy of

bicycle riding on the street and alert motorists to the presence of bicyclists. Shared Lane Markings reduce the incidence of wrong-way bicycling and provide a visual reference for bicyclists to position themselves within the travel lane, reducing the chance of conflict or impact with doors opening from parked cars.

### 3. How do Shared Lane Markings benefit motorists?

Shared Lane Markings alert motorists to the positioning bicyclists are likely to occupy within the traveled way and encourage safe passing of bicyclists





### Bicycle Pedestrian Master Plan

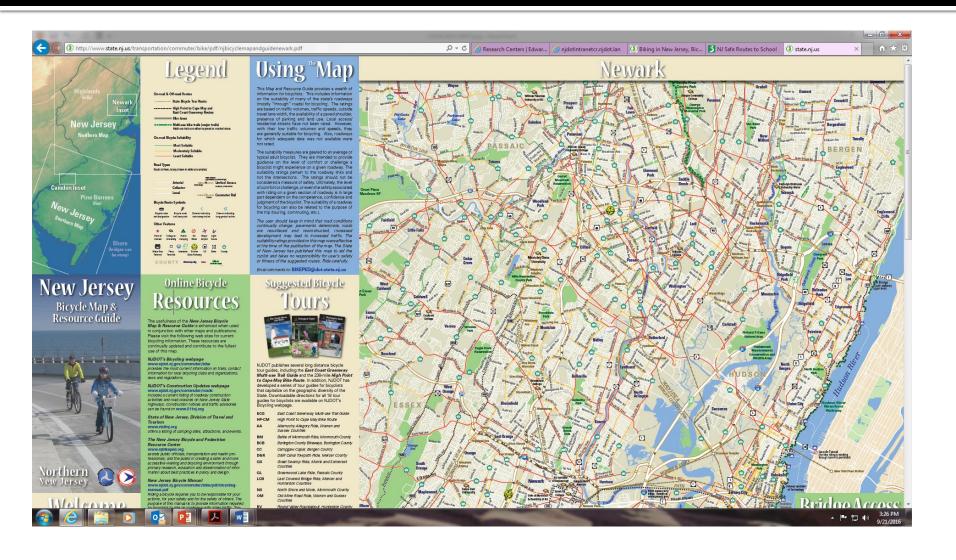


- NJ Bicycle and Pedestrian
   Master Plan and Design Guides (1995)
- NJ Bicycle and Pedestrian Tools (2004)
- NJ Bike Ped Master Plan Update (coming soon)

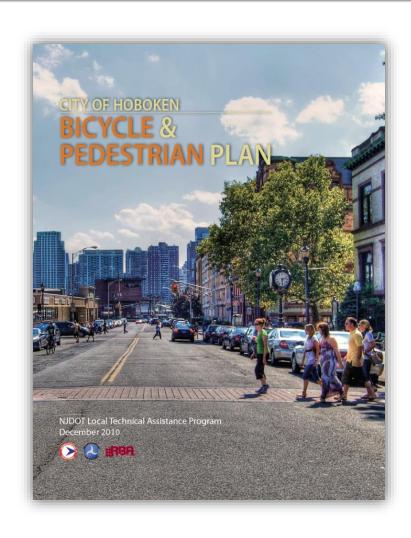




### Statewide Bicycle Map



### **Local Planning Assistance**







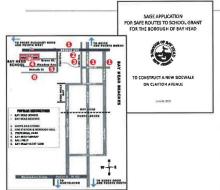
### **Local Planning Assistance**



### PROGRESS REPORT



### ENGINEERING: Clayton Avenue





- New Stop sign added at Clayton Ave./Johnson Street intersection
- Preliminary design and survey completed for Clayton Avenue sidewalk construction
- SAGE SRTS Grant application submitted for west side Clayton Avenue sidewalk
- Analysis continuing on east side Clayton Avenue sidewalk

### **Senior Mobility Workshops**















### NEW JERSEY Safe Routes to School Grants













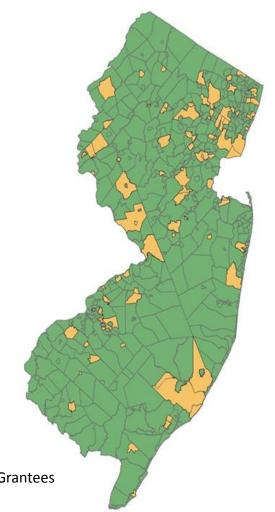






### Safe Routes to School Grants

- 153 grants
- \$25.6 million
- 116 towns, 232 schools
- projects in all 21 counties
- \$7 million in statewide programs
  - NJ SRTS Resource Center
  - Local SRTS Coordinators, events









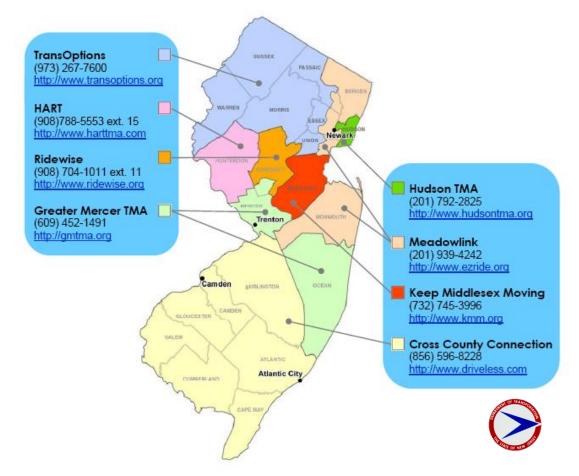


### NEW JERSEY Safe Routes to School Coordinators





### **Find Your Regional Coordinator**









### NEW JERSEY Safe Routes to School Programs









### First Step: Get Started!

- Complete a nomination form
- Identify a Champion to begin building a SRTS team

### **Bronze: Build Momentum!**

- Complete First Step achievements
- Get an endorsement letter or MOU
- Hold at least two SRTS programs or events

### Silver: Achieve Sustainability!

- Meet bronze achievements
- Meet one of the following requirements:
  - Hold total of 4 or more SRTS events
  - Create a School Travel Plan
  - Conduct a SRTS tally, parent/caregiver survey

### Gold: Keep it Going!

- Meet silver level achievements
- Show ongoing support
- Complete at least two big SRTS projects







## "We don't make the roads; we make them better."





# Bicycle and Pedestrian Programs





Bill Riviere



Nipa Maniar



Khalid Shaikh



Joe Powell



Lisa Devries-Harter



**Grace Slackter** 



# Bicycle and Pedestrian Programs



