## Linden Avenue Walkable Community Workshop

**Complete Streets Technical Assistance** 



Verona, NJ October 24, 2024







## Agenda

**Project Background and Timeline** 

Introductions

What is a Walkable Community Workshop?

What is a Complete Street?

What is pedestrian friendly design?

Learn how to conduct a walk audit

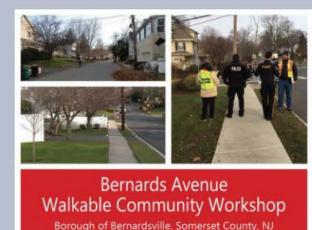
Conduct the virtual walk audit

Report back and next steps



## Complete Streets Tech. Assistance

- Assistance to advance a Complete Streets
   Initiative
- Competitive program for municipalities
- 24 studies completed
- Five recipients selected for 2024-2025









Pedestrian Safety Demonstration Project Belleville, Essex County, NJ





Central Avenue Walkable Community Workshop

Seaside Heights Borough, Ocean County, NJ







## NJTPA Region

Bergen

Essex

Hudson

Hunterdon

**Jersey City** 

Middlesex

Monmouth

**Morris** 

**Newark** 

Ocean

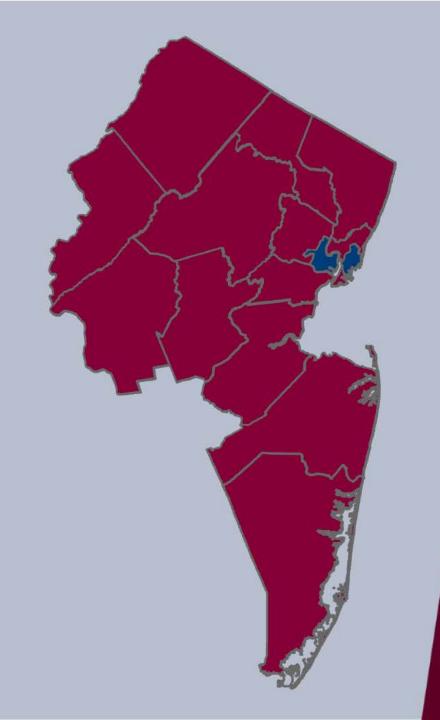
**Passaic** 

**Somerset** 

Sussex

Union

Warren





#### **Project Components and Timeline**

Internal Kick-off Meeting

Project Team Site Visit

April 2024

May 2024





#### **Project Components and Timeline**

Temporary Demo Design

Temporary Demo Start

July – September 2024

October 2024

- 1. Address speeding and safety issues now.
- 2. Build municipal capacity.
- 3. Get real-world feedback from residents.









# Complete Streets Demonstration Library

Materials available to municipalities and counties to test creative traffic solutions

**Durable** materials like bollards and signs and **consumable** materials like paint and chalk

Partnership of the NJTPA and Transportation Management Associations

Twelve projects supported to-date









#### **Project Components and Timeline**

Walkability Workshop

Corridor Walk Audit

Final Report

**TODAY** 

**TODAY** 

**Early 2025** 

- 1. Learn about complete streets and walkability
- 2. Learn how to conduct a walk audit
- 3. Take an in-depth look at a corridor
- 4. Write what is working and what needs improvement
- 5. Share vision for a safer and healthier community
- 6. Organize, summarize, and share community priorities



#### Central Avenue Redesign Plan Poised for 2024 Construction in Seaside Heights, Including Bike Lanes







The northernmost point of Central Avenue in Seaside Heights, N.J., Oct. 2023, (Photo: Shorebeat)

A plan that has spent years in its design stage will remake Central Avenue in Seaside Heights into a picturesque thoroughfare with bicycle lanes, trees, safety features for drivers, and a cohesive aesthetic look.

#### ADVERTISEMENT





First Phase of Seaside Heights Boardwalk Replacement to Start As Soon As Summer Ends

#### One Million Dollars in Grant Funding Awarded to Dunellen

December 22, 2023, 4:05 pm | in

#### \$824,000.00 Ocean County Seaside Heights Seaside Heights Central Avenue Safety Improvements Hamilton Avenue and State Street Improvements Passaic Passaic County Passaic \$454,000,00 Project

#### **Gopal, Houghtaling & Downey Announce** \$275,000 Eatontown Greenway Grant

EATONTOWN, NJ-Senator Vin Gopal, Assemblyman Eric Houghtaling and Assemblywoman Joann Downey today announced that the Borough of Eatontown has received a \$275,000 grant from the New Jersey Department of Transportation (NJDOT) Local Aid Infrastructure Fund Program to create a walkable, undeveloped Eatontown Greenway from Wampum Park to Wolcott Park.

#### Pallone Secures More than \$1.4 Million to Improve Main Street in Bradley Beach



#### Introductions



State your name and affiliation

How long have you lived or worked in Verona?

How often do you walk or bike around Verona?



## Complete Streets



## What is a Complete Street?

Ensures the safe and adequate accommodation of all users of the transportation system.

- Public transit riders
- Bicyclists
- Pedestrians
- Older adults
- Children
- People with disabilities
- Motorists
- Truck and delivery drivers





## A Complete Street...

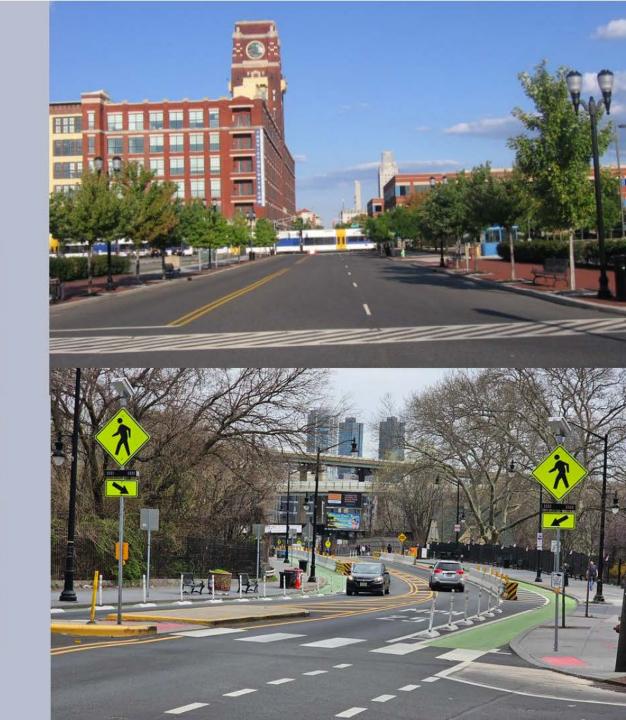
Offers many travel choices

Connects to a wider network

Is fully accessible to all

Varies according to context

Improves safety for all



### **Benefits of Complete Streets**





## Cost of incomplete streets

- Exposure to risk
- Injuries and fatalities due to crashes
- Limited mobility
- Limited access to jobs and education



#### New Jersey pedestrian fatalities, 2010-2023





#### **Building a Place You Want**

- Design affects what we do and how we do it (and how happy we are doing it)
- Build for driving...
   ....you get driving
- Build for walking and biking...
   ....you get walking and biking







#### **Bad Behavior**

Why do people speed?

Because wide roads make it seem safe for the driver to speed.





#### What is the speed limit?











#### What is the speed limit?

50 mph





35 mph

40 mph





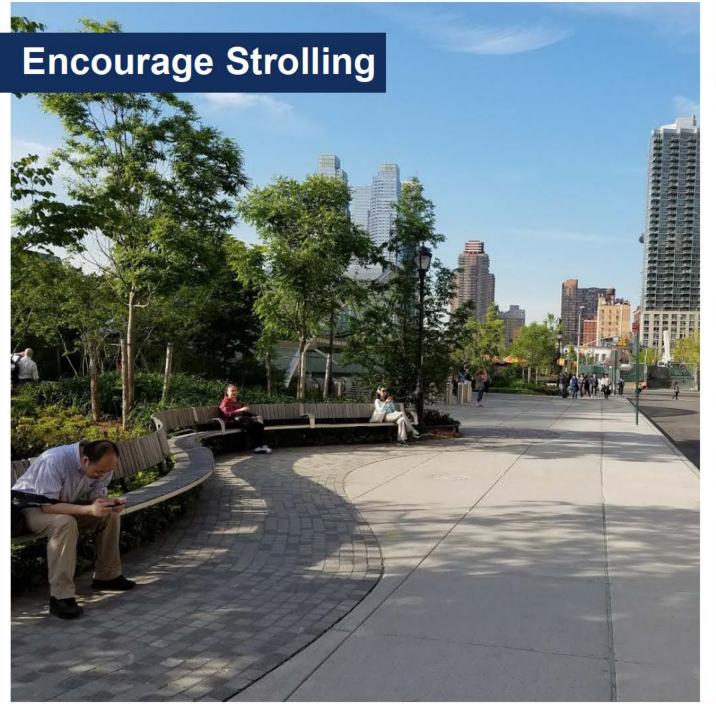
25 mph



# Pedestrian Friendly Design





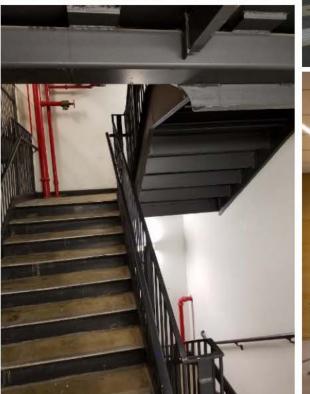






Remember, design affects behavior!









# Designing for the Public Right Of Way



#### **Pedestrian Accessibility**

- Public Right-of-Way Accessibility Guidelines
  - Width: Federal minimum was 36"
  - NEW 48" min, exclusive of curb
  - Wider is always better!
- Be careful with:
  - Vertical obstructions
  - Protruding objects
  - Slope



#### **Pedestrian Safety**

Is the surface smooth?



Are there any other infrastructure issues?



#### **Crosswalk Ramps**

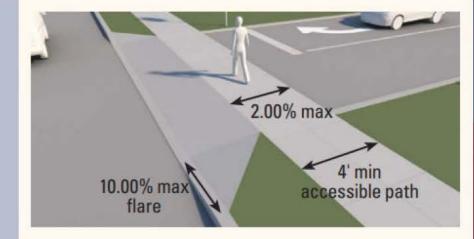
- Should face crosswalk
- Can't be too steep
- Smooth transition at bottom
- Truncated domes for the blind

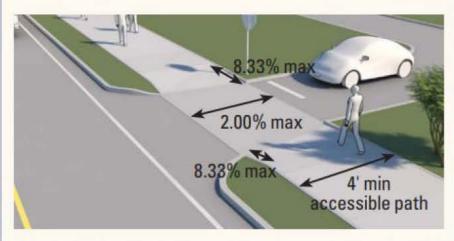


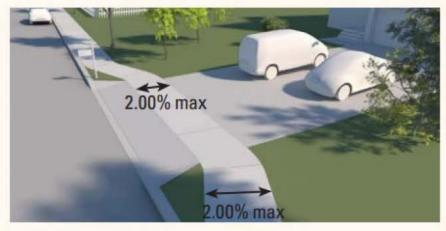


#### **Driveways**

- Steep grades and cross slopes at driveways are dangerous
- Provide as level a surface as possible
- Sidewalks should NOT stop at driveways









#### Pedestrian Amenities

- Shade and shelter
- Seating
- Lighting and signage
- Trash cans
- Bicycle Parking
- Fitness Stations
- Water fountains
- Shops and stands



#### **Crosswalk Visibility**

- High-visibility markings
- Improved lighting
- Parking restrictions on crosswalk approaches
- Curb extensions
- Advanced "Stop" markings and signs
- In-Street "Stop" signs



#### **Crosswalk Visibility**





#### Crosswalks

Follow shortest natural path

Width depends on pedestrian volume

- Lighting above
- Safety islands
- Raised crosswalk
- Signage









#### Pedestrian Signals and Beacons



Pedestrian Activated HAWK Signal

(High-Intensity Activated crossWalK beacon)



Rectangular Rapid Flashing Beacon (RRFB)



Diagonal Crosswalk





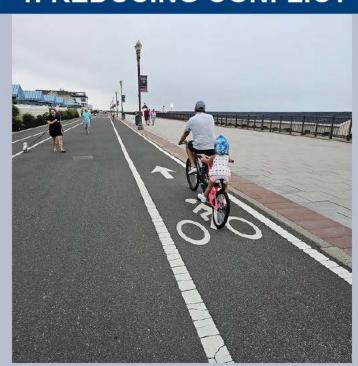
# Bicycles & Public Transportation



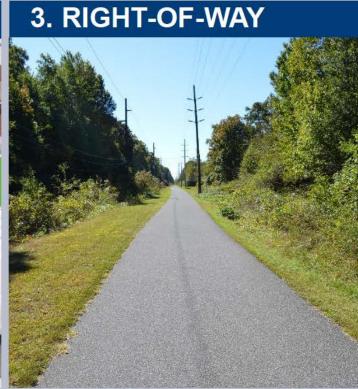
#### **Bicycles**

#### Design for bicycle should focus on:











## **Bicycles**

 Where can bicycles travel in New Jersey?



#### **Micromobility**

 Where can e-bikes and escooters ride in New Jersey?

It depends!

VEHICLE TYPES	PROPULSION METHOD	POWER SOURCE	MAX ASSISTED SPEED (MPH)	LICENSE & REGISTRATION	HELMET	PARK ON THE SIDEWALK?	TAKE ON TRANSIT?
ELECTRIC SCOOTER	Kickstart and throttle	Electric	19mph	No	Under 17 years old	If not blocking access	Yes*
ELECTRIC BICYCLE	Pedal and optional throttle	Electric (<750W)	20mph	No	Under 17 years old	If not blocking access	Yes*
MOTORIZED BICYCLE		Gas or Electric <50cc/<1.5BHP)	28mph	Required	Required	No	No

http://njbikeped.org/new-law-legalized-e-bikes-and-e-scooters-in-new-jersey/

<sup>\*</sup> Restrictions may vary by agency. PATH and NJT restrict non-collapsible vehicles during peak travel times. Bus racks have limited availability and may not fit all bikes.

#### **Traffic Calming and Bicycle Boulevard**



For quiet residential streets use signage and traffic calming



#### **Bicycle Lane**



4-feet minimum by curb

5-feet standard

6-feet preferred

7-feet for contra-flow

Buffer, even better!



#### **Protected Bicycle Lane**

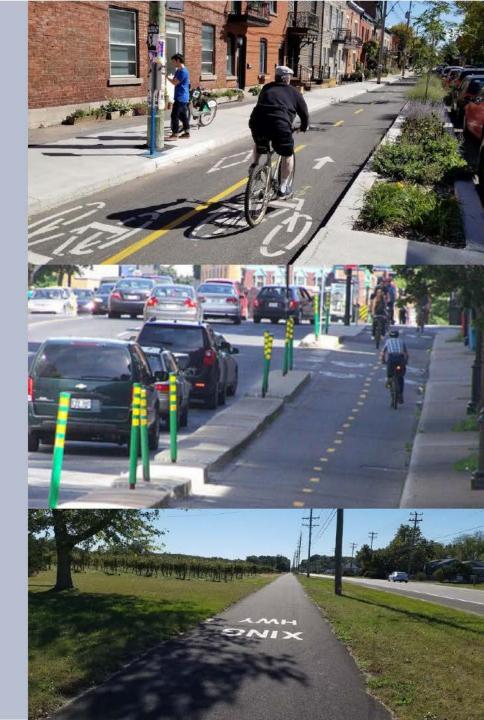
- 5' bike lane + 3' buffer
- Not optimal if many driveways
- Consider loading areas, bus stops, and turning vehicles





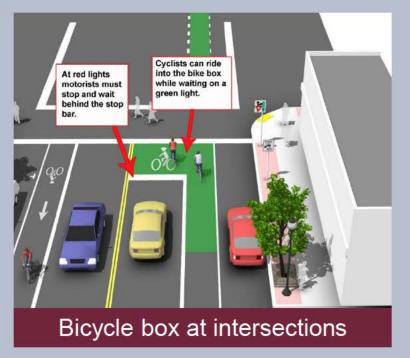
### **Bicycle Paths**

- Two-way
- Minimum 8-feet, preferred 10-feet, best 12-feet+
- Best with minimal intersections and driveways





#### **Other Bicycle Options**













#### **Bus Shelters**

- Should include seating, lighting, & travel information
- Should be ADA compliant
- Should not impede pedestrian flow







#### **Marked Bus Lanes**

 Provide a dedicated space for buses in the street







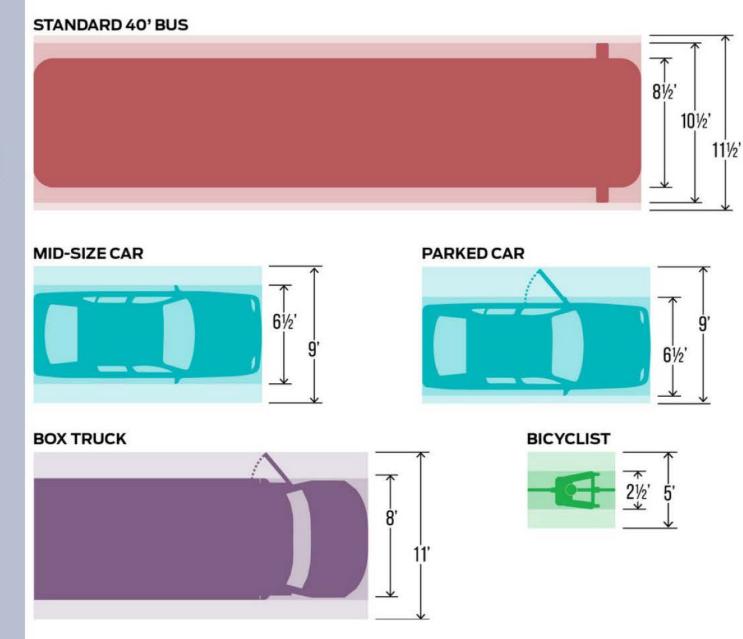
# Reducing Speeding



#### **Reducing Speeding**

- Design for lower speeds
- Wide = fast

Narrow the view





## Vertical Speed Control: Speed Bumps



# Vertical Speed Control: Raised Crosswalks





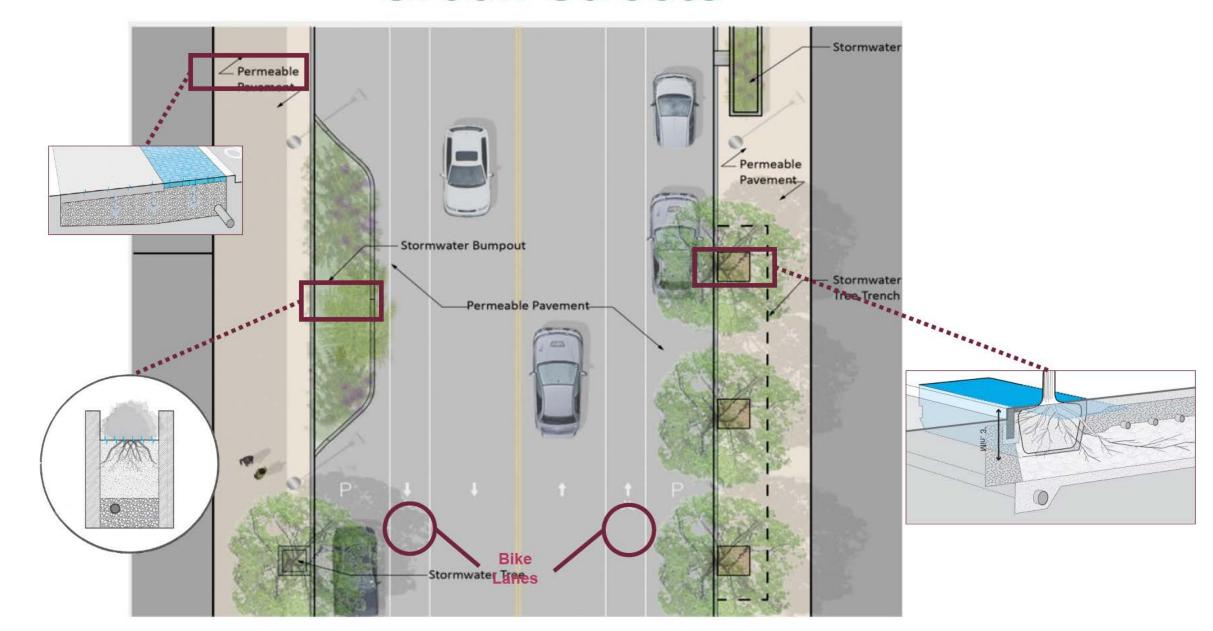
Horizontal Speed Control: eckdowns / Chicanes







#### **Green Streets**





#### **Street Trees**



Lower average speed



Reduced stormwater runoff



Improved air quality and health



Increased property values



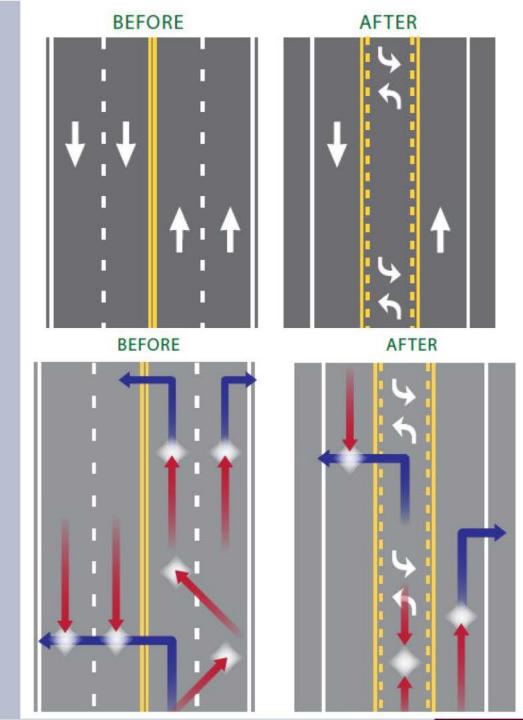
Lower crime rates



Reduced urban heat island effect

#### **Speed Strategies**

- Road Diet
- Reduce congestion
- Other options:
  - Wider sidewalks
  - Bike paths
  - Diagonal parking
  - Green space







# Lighting



#### **Street Lighting**

- If it's not Complete at night, it is not Complete
- Lighting provides visibility for safety and security
- Pedestrian scale lighting, below the tree line
- Intersections, roundabouts, and crossings require special lighting





# **Street Lighting**





# The Walk Audit



## **Conducting the Walk Audit**

- Take an in-depth look at corridor
- What is working and what needs improvement?
- Organize, summarize, and share priorities





### **Conducting an Audit**

- Take photos and notes!
- Talk to people
- Use tools to measure, as needed
- Always be careful with traffic





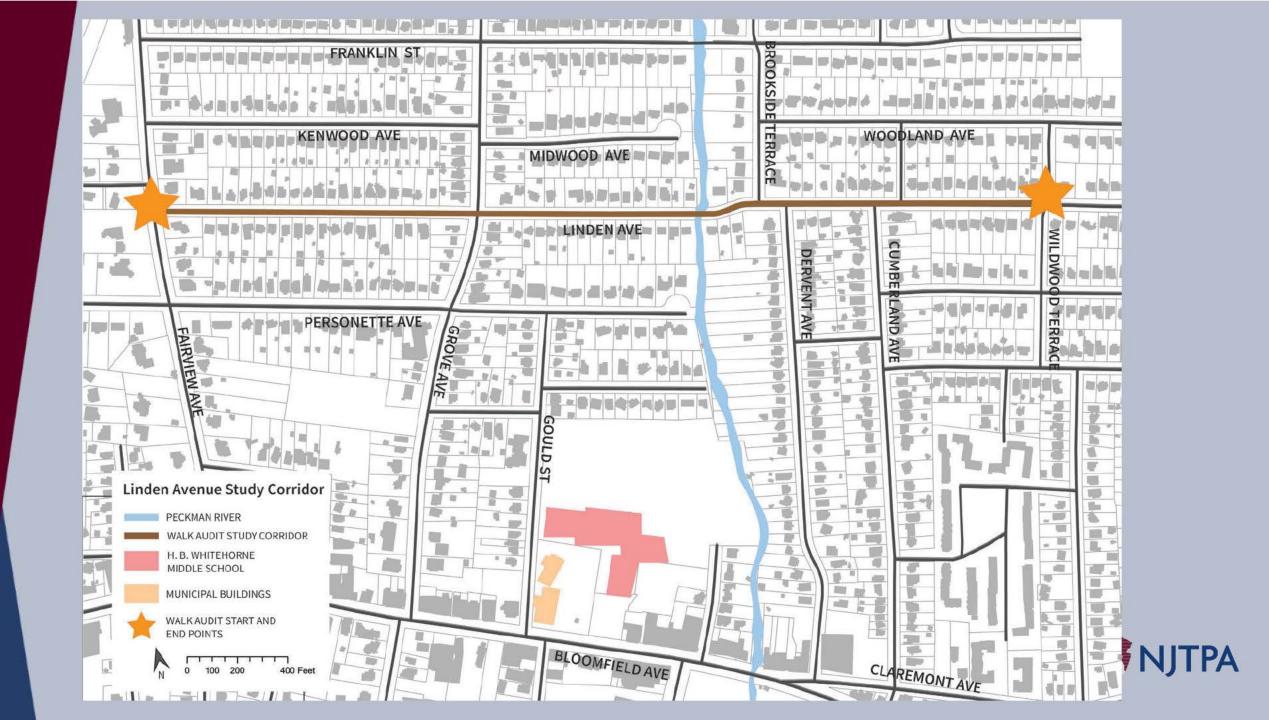
#### **Taking Good Photos**





3 weeks later...where was this?





# Thank you!



