

# River District Bicycle and Pedestrian Study

May 16, 2017

**EPRPC**

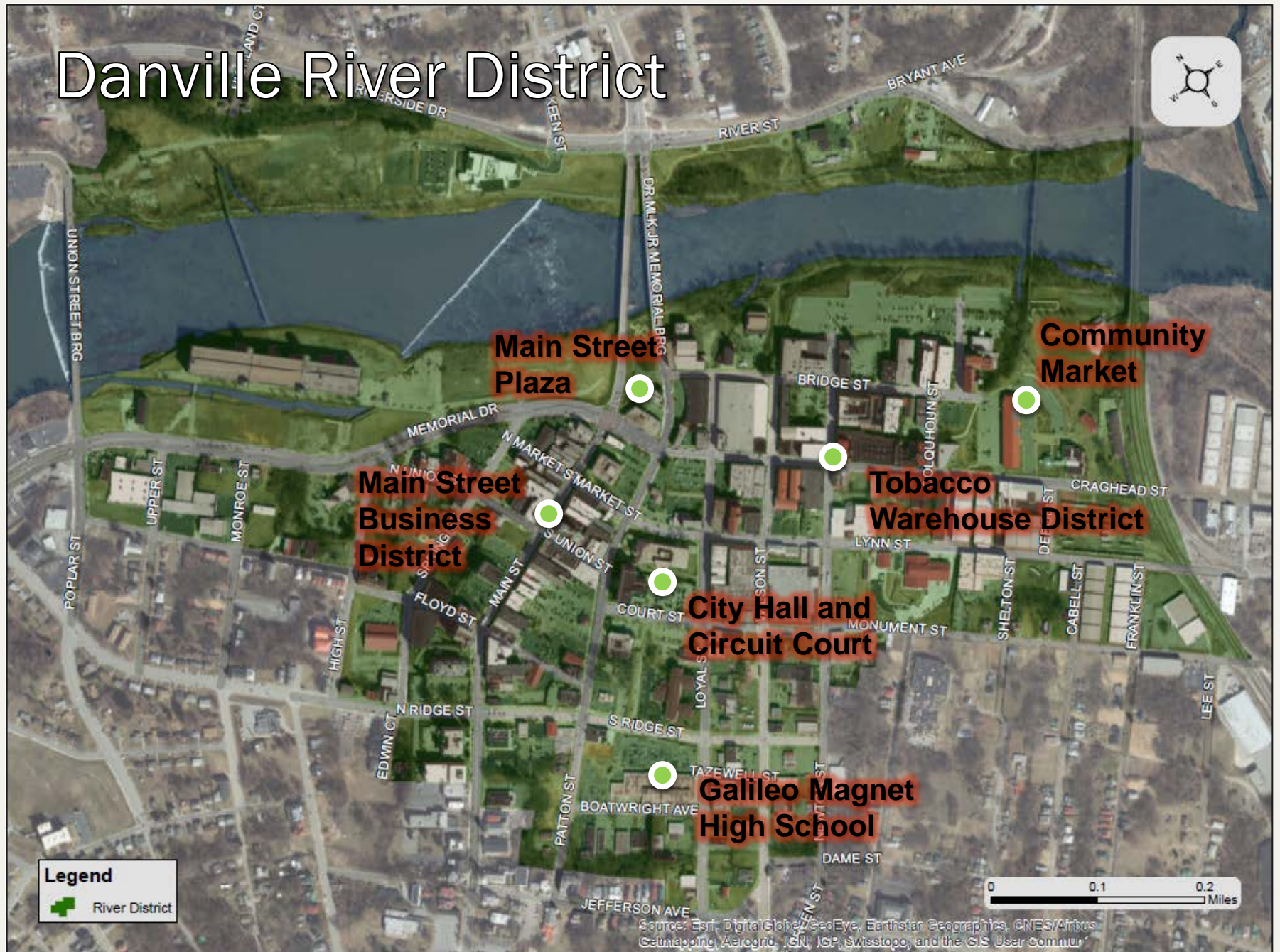
Traffic • Transportation • Stormwater • Civil

# Agenda

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- Study Area and Purpose
- Study Process
- Summary of Existing Conditions
- Study Recommendations
- Next Steps

# Danville River District



# Study Purpose

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- Document existing conditions pertaining to bicycle and pedestrian travel
- Identify recommendations that can help improve bicycle and pedestrian safety and comfort



# Study Process

- Review of Prior Plans
- Site Visits
- Traffic Data Research
- Public Meetings
  - Stakeholder Roundtable Meetings
  - Public Meetings (x2)



# Existing Conditions

# Major Considerations

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- Sidewalks
- Riverwalk Trails
- Bicycle Pavement Markings
- Crosswalks
- Bicycle Infrastructure
- Traffic Volume and Crash History

# Notable Conditions





# Riverwalk Trail Connections



- Multiple connections (Carrington Pavilion, Wilson St, Main Street Plaza) offer the opportunity for the Riverwalk Trail to be a major River District attraction
- Limited wayfinding information available to direct visitors to trails, or trail users to other River District destinations

# Crosswalk Markings

Many crosswalks in the River District have limited visibility

- Brick crosswalks without painted borders
- Painted crosswalks with thin lines



# Obstacle Intersections



Large intersections that disrupt potentially important pedestrian movements

- North Main St at River St/Riverside Dr
  - Separates River District from North Main St neighborhood
- Main St at Memorial Dr
  - Separates Main St business district from planned Riverfront Park

# Bicycle Infrastructure

Limited resources to support bicycle travel as transportation (rather than recreation). Expressed desire for additional:

- Bicycle Racks
- Covered Bicycle Parking
- Bicycle Maintenance Stations



# Underutilized Roadways

Multiple 4+ lane corridors with low traffic volumes

- Ridge Street
- Poplar Street
- Memorial Drive





# Bicycle and Pedestrian Culture

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In the opinion of multiple city residents, Danville has an underdeveloped bicycle and pedestrian culture

- Drivers failing to respond safely to bicycle and pedestrian travelers
- Perception of limited community energy directed to encouraging activities such as bicycling, walking, and running

# Recommendations

# Recommendation Categories

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- Education and Events
- Pavement Markings
- Traffic Signal Equipment
- Bicycle Infrastructure
- Bicycle Routes
- Pedestrian Crossings
- Lighting
- Road Diets



# Education and Events

Activities and programs that can support the development of a more robust bicycle and pedestrian culture in Danville

## Example: Bicycle Rodeos and Urban Bicycling Workshops

- Education programs that teach children and adults the skills and etiquette necessary for safe bicycle travel
- Enhance both rider safety and confidence



# Pavement Markings

Pavement marking modifications or additions that can enhance bicycle and pedestrian safety

## Example: Bordered Brick Crosswalks

- Adding painted white borders to brick crosswalks
- Enhances visibility of crosswalks for drivers to increase awareness and improve reaction times





# Traffic Signal Equipment

Equipment improvements and additions that can better detect and guide bicyclists and pedestrians through signalized intersections



## Example: Pedestrian signal heads at the Main Street and River Street intersection

- Replace the existing signal heads with models that provide a crossing phase countdown
- Enhances pedestrian safety and comfort by allowing them to better judge when to begin or delay crossing movements

# Bicycle Infrastructure

Increasing the availability of equipment and infrastructure to support practical (non-recreational) bicycle travel

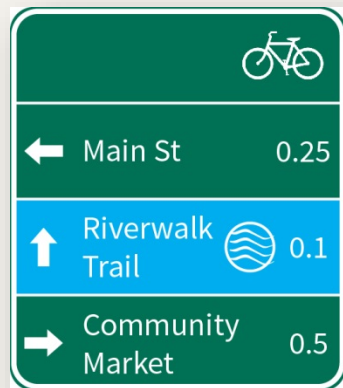


## Example: Bicycle Commuter Stations

- Installation of bicycle parking locations that attend to the needs of bicycle commuters
- Potential amenities to include: covered bicycle racks (to protect bicycles from weather elements) and bicycle maintenance stands (providing tools to perform basic repairs)

# Bicycle Routes

Identifying safe and continuous routes for bicycle travel in the River District, as well as providing wayfinding information to major destinations.



**Example: (Proposed routes on following slide)**

- Includes connection routes to Riverwalk Trails and North Main Street







# Pedestrian Crossings

Enhancements of street corridors to shorten pedestrian crossing distances, increase pedestrian visibility, and to provide median refuge areas in lengthy crossings.



## Example: Median widening at Main Street and Memorial Drive

- Increases the width of the median on Memorial Drive by eliminating one thru-lane (replaced by changing the right lane from right-turn-only to right/thru)
- Enhances connection between Main Street Business District and proposed Riverfront Park

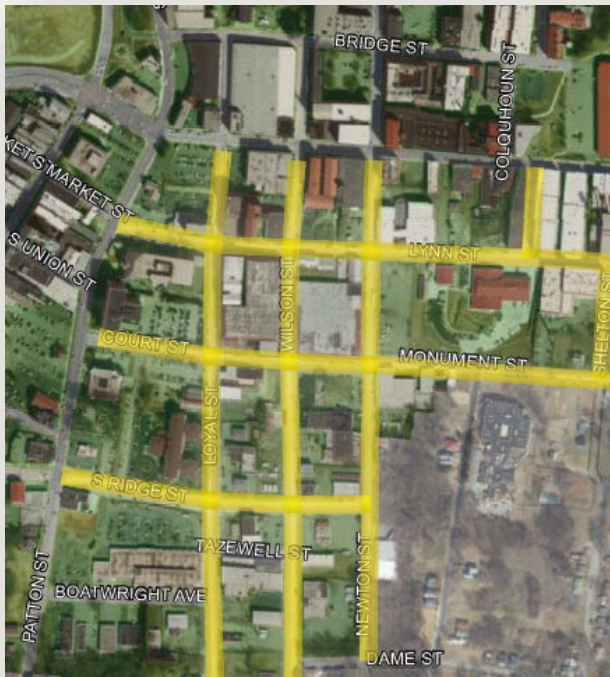


# Lighting

Improving street lighting in order to increase visibility and safety at night.

## Example: Industrial Warehouse District

- Address lighting concerns along streets surrounding industrial warehouses (Wilson St, Newton St, Monument St, etc)
- Supports small business in the area, and improves connection between the River District and the adjacent neighborhood



# Road Diets

Replacing underutilized travel lanes with street elements such as center turn lanes and bicycle lanes



## Recommended Corridors:

### Poplar Street, Ridge Street, Memorial Drive

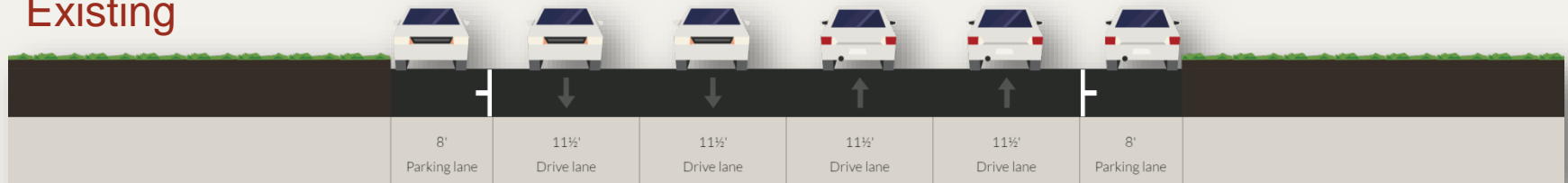
- Given a 2% annual growth of traffic, all of the streets are projected to have traffic volumes well below 20,000 vehicles per day in 2040 (typical road diet standard)
- **Changes do not entail elimination of pavement.** If traffic volumes increase more rapidly than expected (especially on Memorial Drive), the street can return to the existing configuration simply by remarking lanes.

# Example: Ridge Street

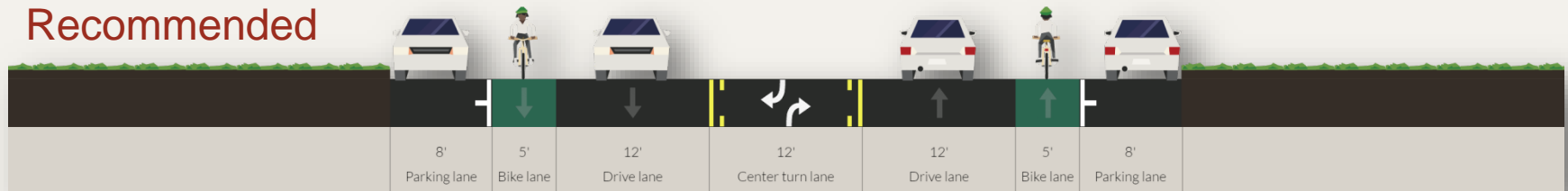
**2015 Average Daily Traffic (ADT):** 2,800 vehicles

**2040 Projected ADT:** 4,600 vehicles

## Existing



## Recommended



Next Steps

# Next Steps

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- Finalize study report, including suggested changes
- Use as guiding document to identify priorities and project opportunities



# Questions?

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