

# BROWNSVILLE ROAD CORRIDOR TRAFFIC SAFETY PLAN Calhoun Ave to Maytide St.

Focus Group Meeting Date-05/23/2023



# Topics to be discussed:

- Study Area Profile
- Traffic & Transit
- Traffic Crash Analysis
- Existing Condition Analysis
- Potential Treatment Options
- Next Steps
- Discussions

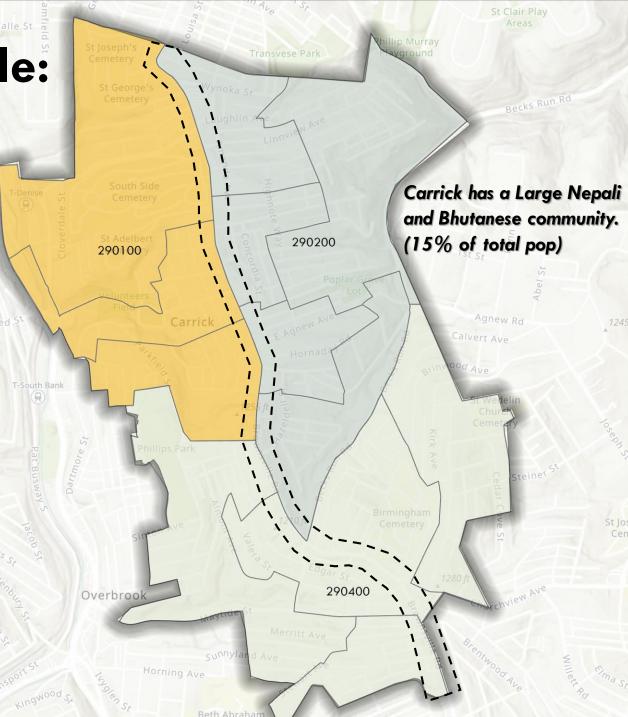


# **Study Area Profile:**

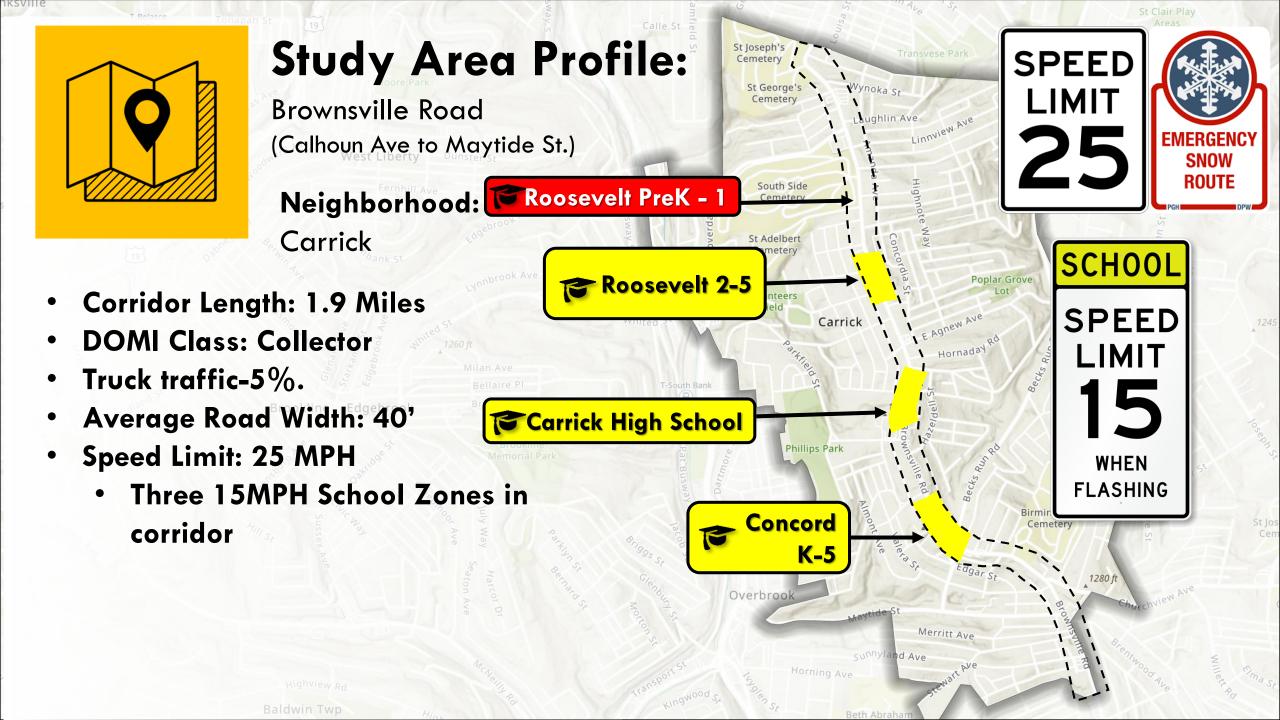
Brownsville Road

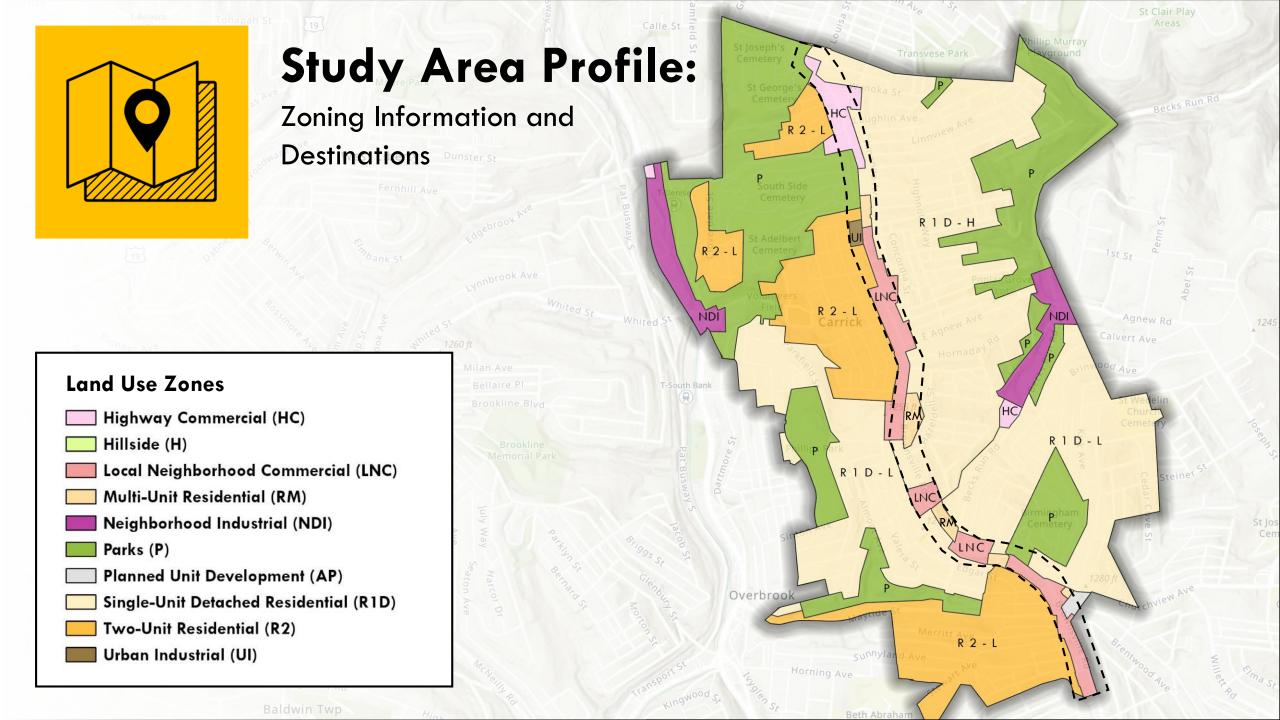
#### Neighborhood: Carrick

Demographics by Census Tract		City Wide	Carrick Census Tracts		
			290100	290200	290400
Population		302,971	2,130	4,141	4,019
Race	White	62%	67%	64%	72%
	Non-White	38%	33%	36%	28%
Age	Under 18 year	14%	14%	19%	14%
	Over 65 years	16%	14%	20%	17%
	Median Age	34	40	45	38
Individuals with Special Needs		15%	21%	23%	21%
Median Income		\$58,000	\$40,000	\$40,000	\$50,000
Commu	ter Characteristics				
No Vehicle		10%	13%	16%	11%
Public Transit		9%	17%	18%	8%
Walk to Work		6%	5%	1%	1%



Baldwin Tw







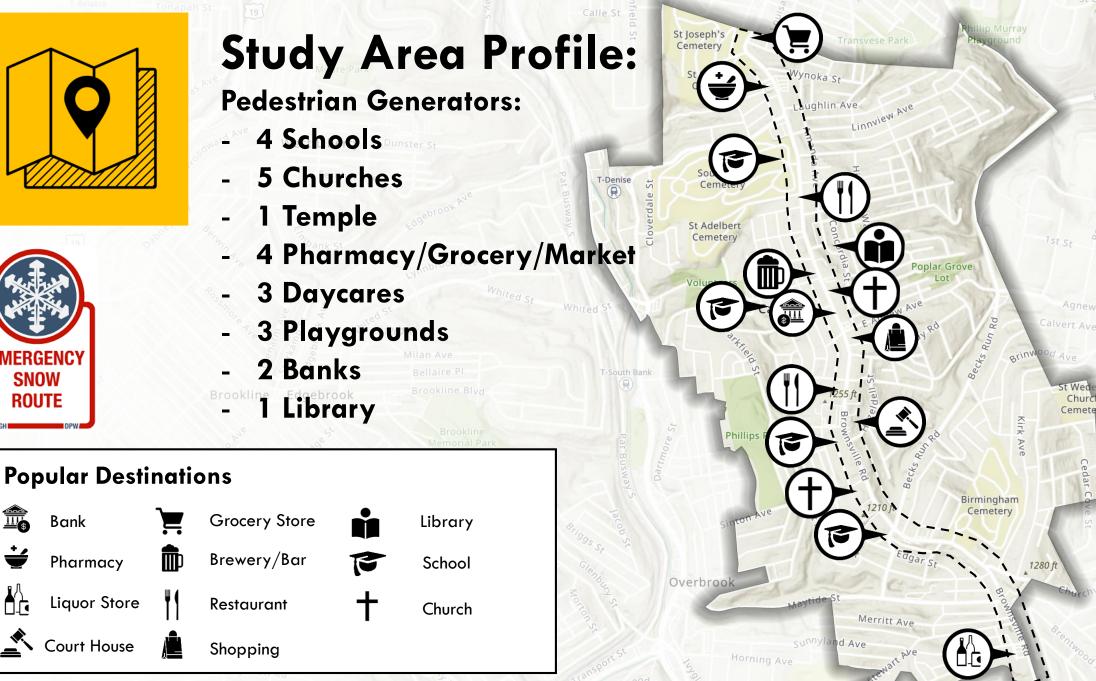


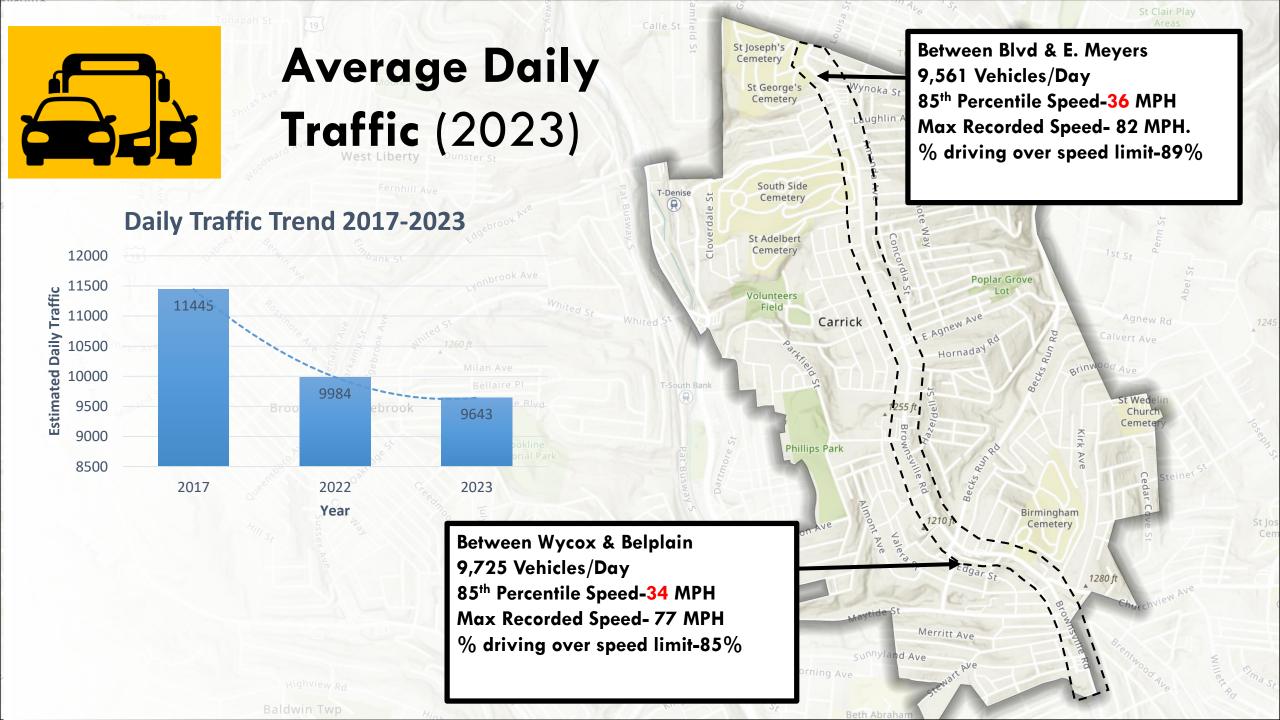
Bank

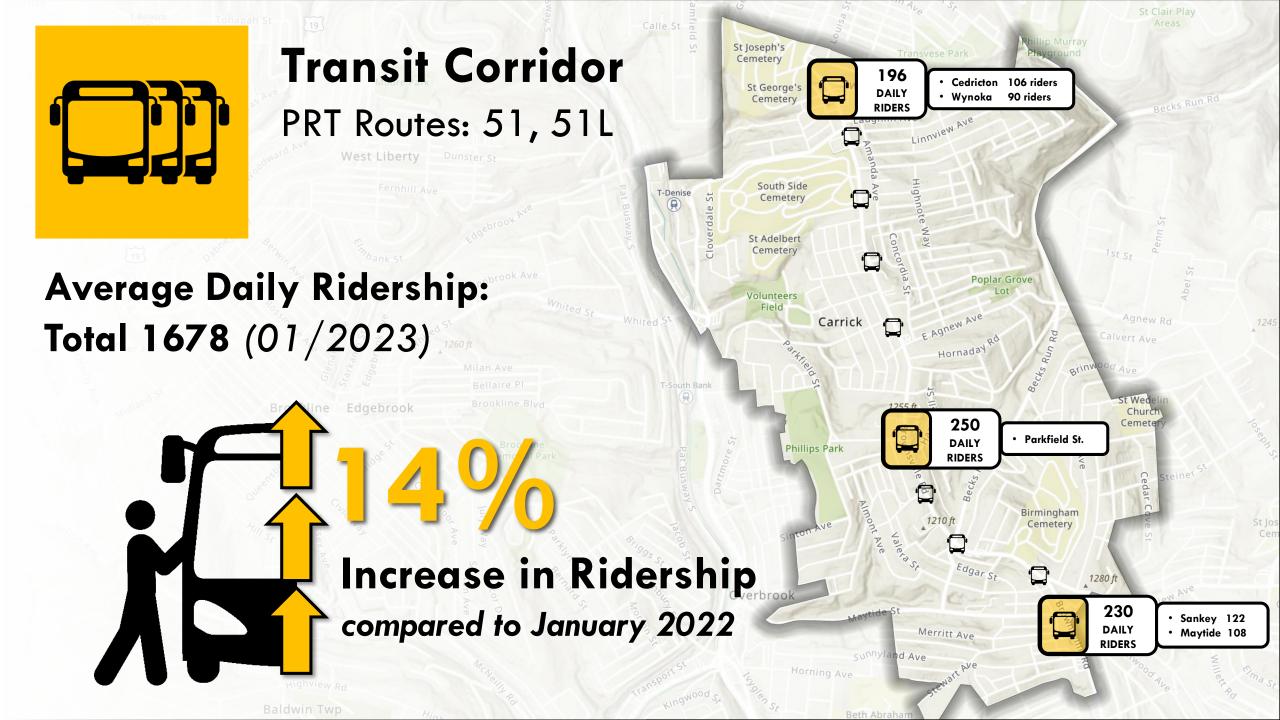
Court House

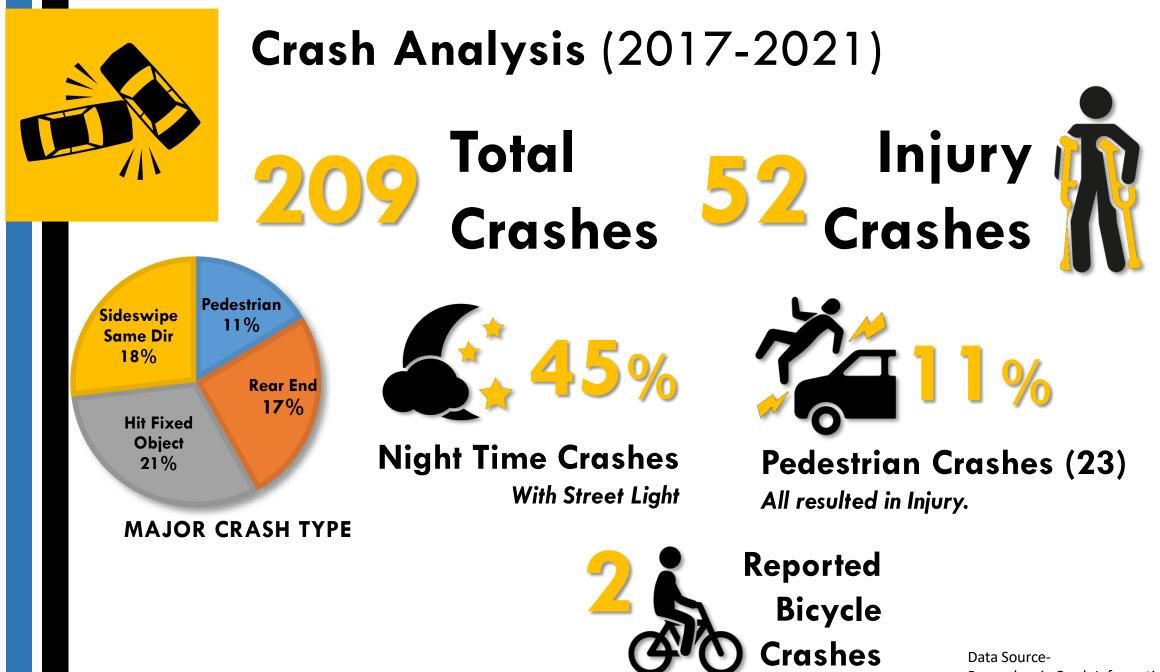
Pharmacy

Liquor Store





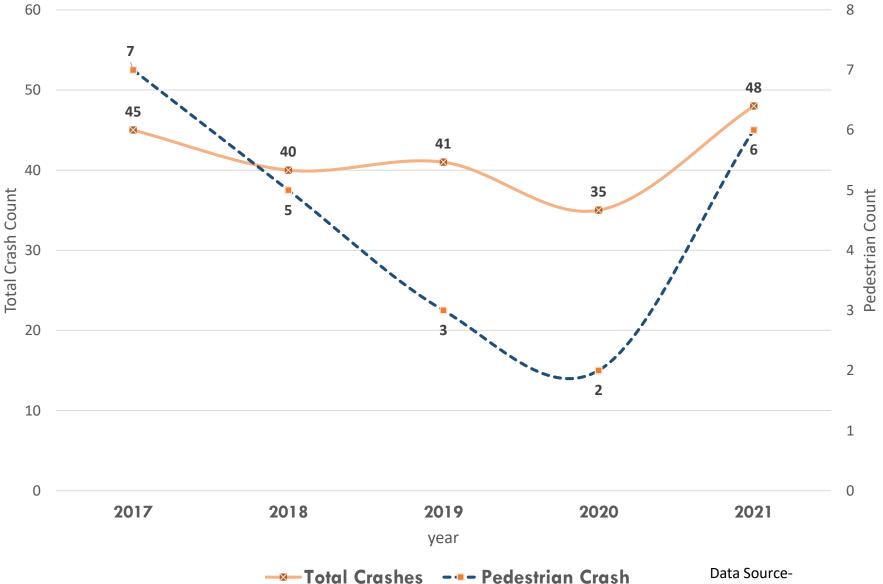




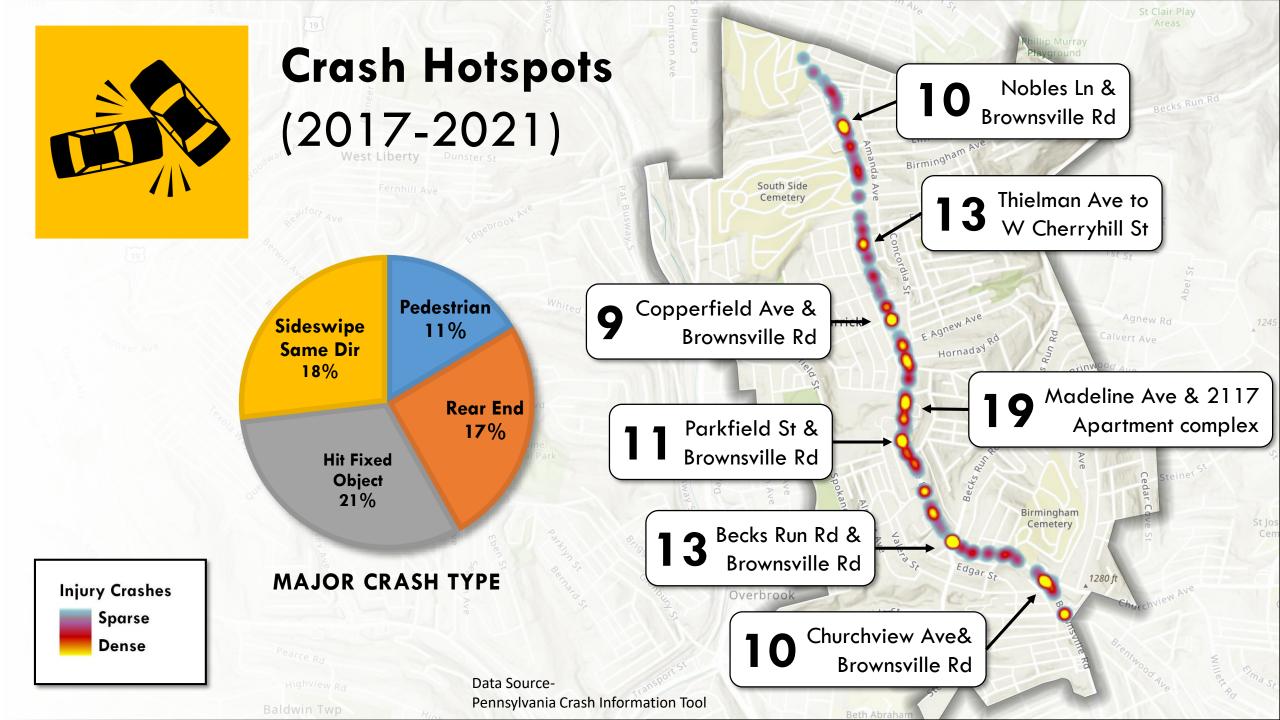
Pennsylvania Crash Information Tool

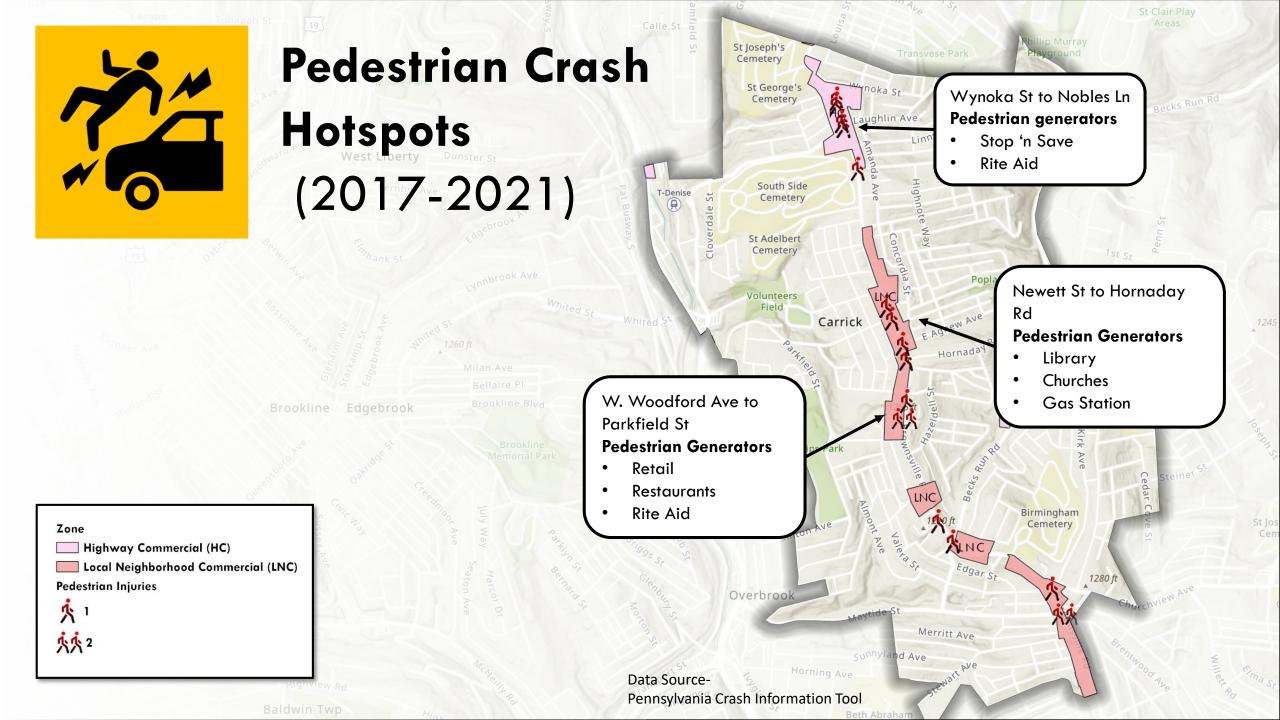


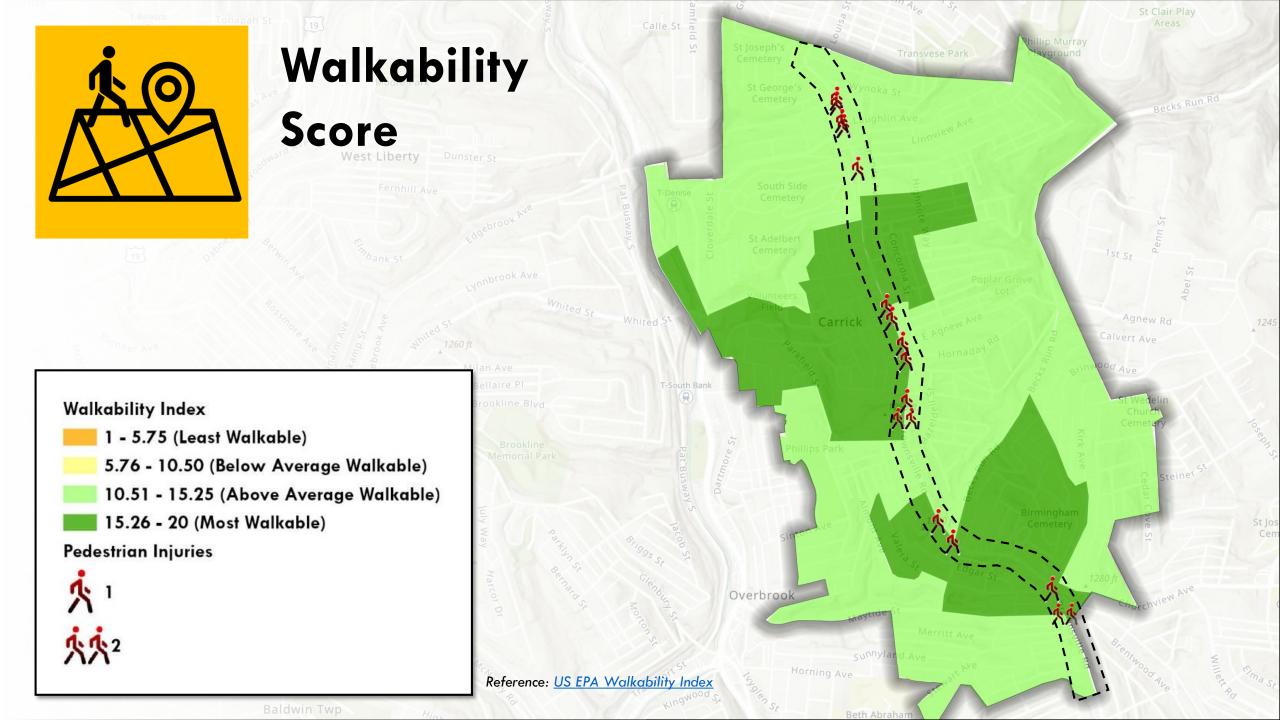
# Crash Analysis (2017-2021)

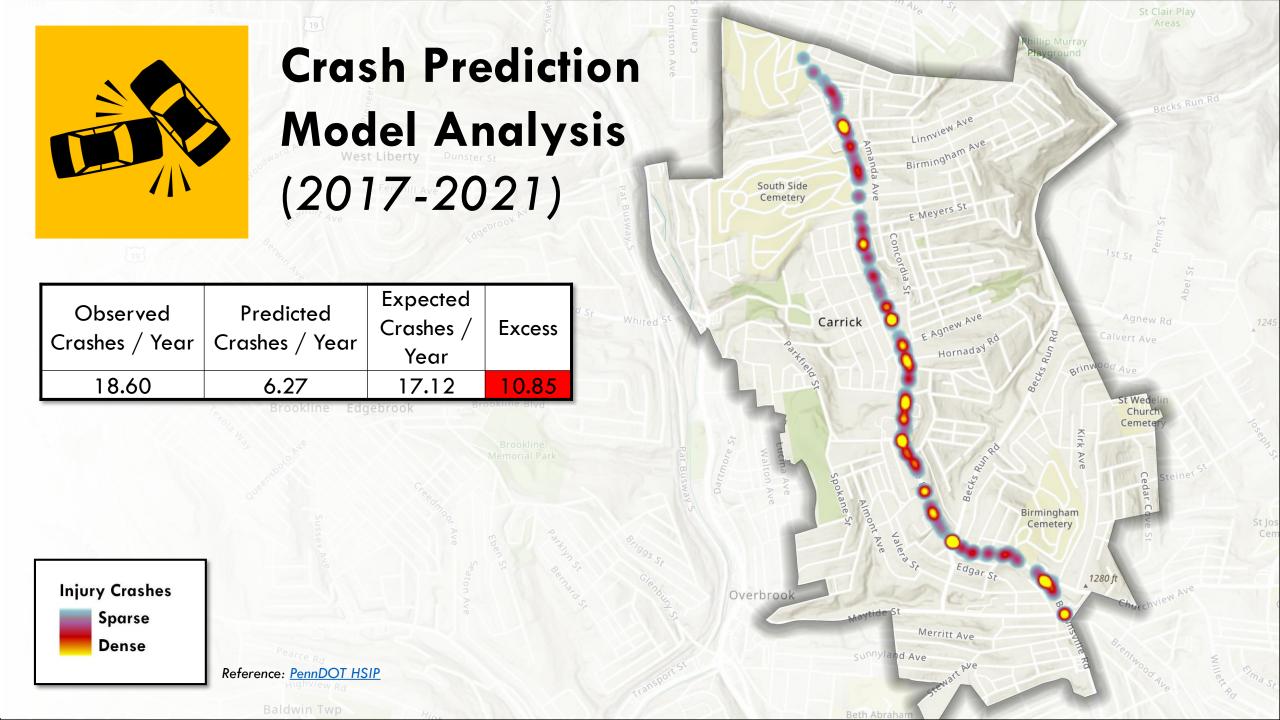


Pennsylvania Crash Information Tool











# Existing Condition Analysis:

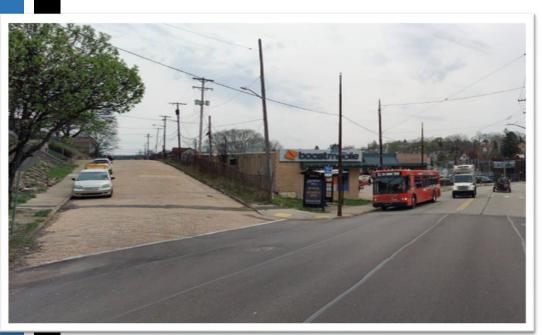
- Identified Issues
- Crash Nature
- Transit Ridership



# Wynoka St to Minooka St

#### **Identified Issues:**

- High pedestrian generator segment.
- High volume driveways.
- Un-signalized pedestrian crossing location
- Lighting improvements needed
- Wynoka St should be realigned from a "Y" to a "T" intersection.

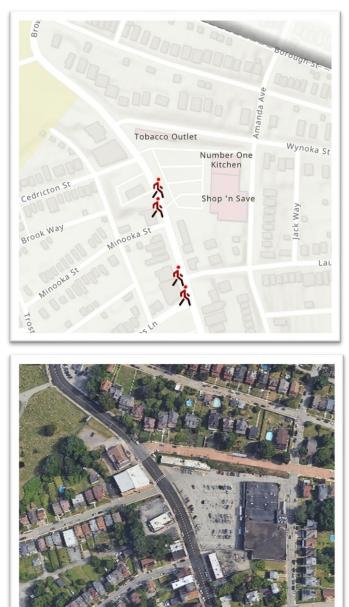




- Hit fixed object
- Pedestrian Crash (2)



Bus Shelter at Wynoka St. Stop

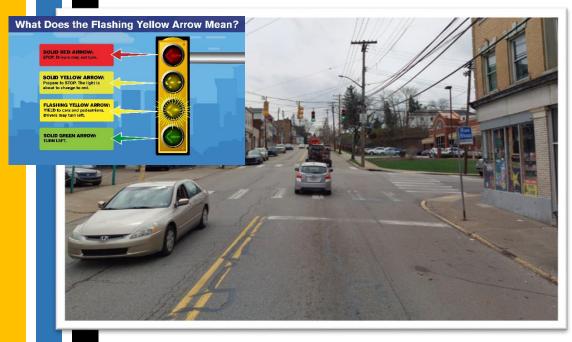


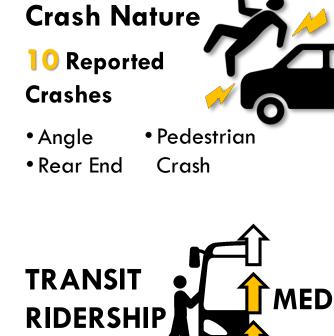


# Nobles Ln & Brownsville Rd

#### **Identified Safety Issues**

- ADA ramp & sidewalk upgrades needed
- Pedestrian crossing improvements needed at the intersection
- Evaluate proper lane delineation & Left turn lane.
- Full signal replacement.











#### **Birmingham Ave & Brownsville Rd**

#### **Identified Safety Issues**

- Un-signalized pedestrian crossing needs improvement
- Lighting improvements needed

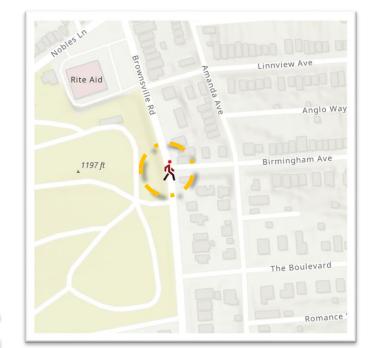


One side street lighting which is present along the corridor creates dark spots along intersections and driveways (seen above).

#### Crash Nature **7** Reported Crashes

- Hit Fixed
- Object
- Head On
- **TRANSIT** NO **STOPS** RIDERSHIP

• 5 Nighttime crash



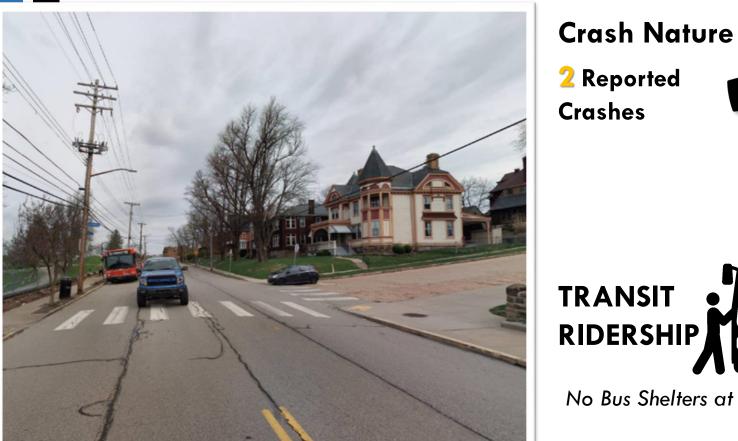




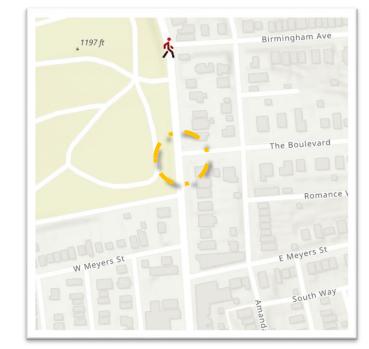
#### The Boulevard & Brownsville Rd

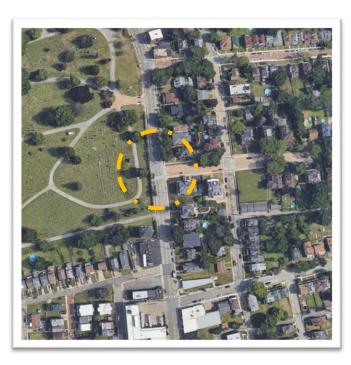
#### **Identified Safety Issues**

- Un-signalized pedestrian crossing ٠
- High pedestrian generator Pittsburgh Roosevelt Pre-K 1 ٠











### E. Meyers St & Brownsville Rd

#### **Identified Safety Issues**

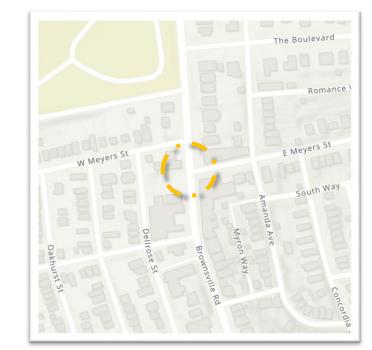
- Un-signalized pedestrian crossing
- High pedestrian generator-Carrick Farmer's Market
- More pedestrian scale lighting improvement needed.



Crash Nature











#### Thielman Ave & Brownsville Rd

#### **Identified Safety Issues**

- Deteriorated sidewalk and curb ramps
- Lighting upgrade needed
- Sightline improvement needed

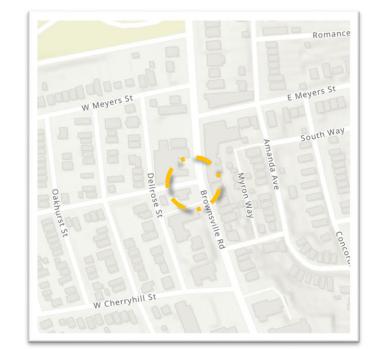


Deteriorated sidewalks create an inaccessible pedestrian environment. This is the result of improper sidewalk material (Asphalt) as well as unpermitted curb cuts/parking.



- Angle 6 Night time
- Rear End crash









# Cherryhill St & Brownsville Rd

#### **Identified Safety Issues**

- Un-signalized pedestrian crossing needs improvement
- High Pedestrian generator Roosevelt 2-5.



# Crash Nature

. Crashes

• Sideswipe









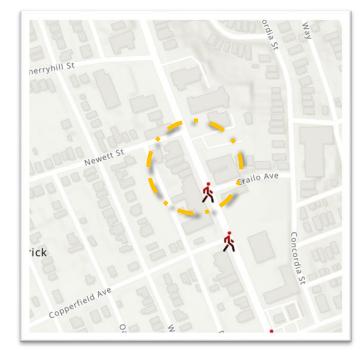
## **Newett St to Crailo Ave**

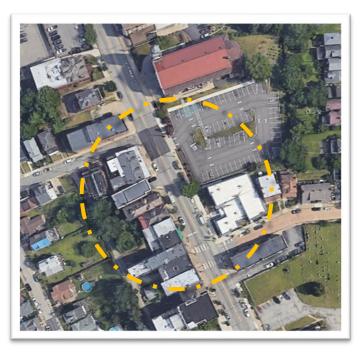
#### **Identified Safety Issues**

- Newett St: Sightline improvement needed. •
- Crailo Ave: Signal is outdated and requires full replacement ٠ to improve pedestrian accommodations.
- Sidewalk upgrades needed ٠









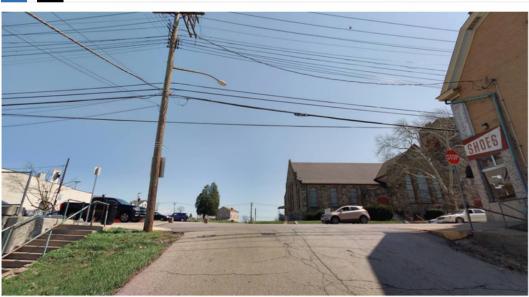
HIGH



## **Copperfield Ave & Brownsville Rd**

#### **Identified Safety Issues**

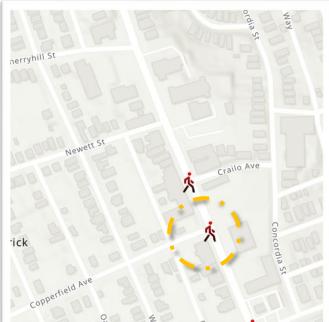
- Encourage use of nearby signalized crossing at Crailo Ave
- Sightline improvements needed for vehicles turning from Copperfield



Sightline is severely restricted turning from Copperfield to Brownsville due to the grade off Copperfield Ave.











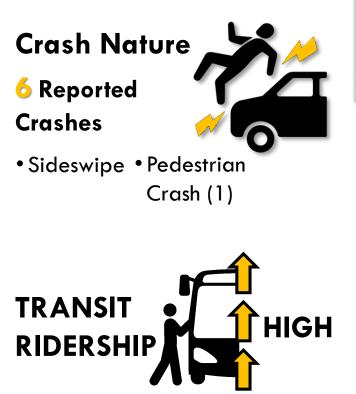
## Agnew Ave & Brownsville Rd

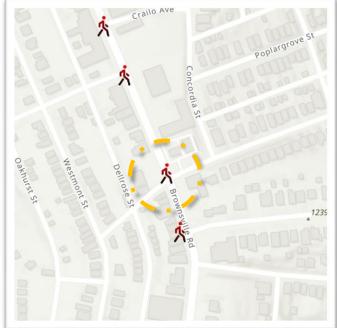
#### **Identified Safety Issues**

- Un-signalized pedestrian crossing needs improvement
- Sidewalk upgrades needed
- Sightline improvement needed on W. Agnew Ave.
- Access management for customers to BP and Uni-Mart



Visibility is limited for vehicles approaching Brownsville Rd. from W. Agnew Ave. This section of the corridor sees high vehicular and pedestrian volumes due to popular destinations (BP & Uni-Mart).









# Hornaday & Brownsville Rd

#### **Identified Safety Issues**

- Speeding concern.
- Sidewalk upgrades needed.
- City is aware of the drainage issue and working on a separate Initiative. Not part of this project.











## Madeline St & Brownsville Rd

#### **Identified Safety Issues**

- Un-signalized pedestrian crossing needs improvement.
- Sidewalk upgrades needed
- Pedestrian generator Zion Christian Church
- Parking near the crosswalk is prohibited and need further reinforcement.



# Crash Nature

6 Reported
Crashes

- Sideswipe
- Rear End









#### Woodford Ave & Brownsville Rd

#### **Identified Safety Issues**

- Woodford Ave: Un signalized pedestrian crossing needs improvement
- Access management needed for busy shopping destinations and apartment building in this section.

Crash Nature

• Sideswipe • Pedestrian

**19** Reported

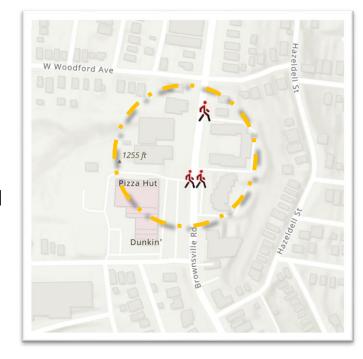
Crashes

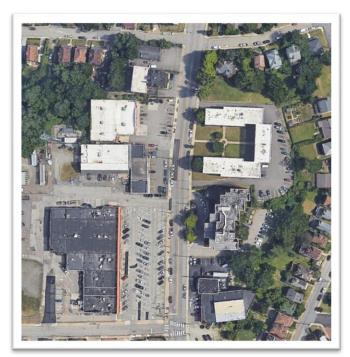
• Rear End

- On-street parking management needed to ensure clear sightline for driveway in/out.
- Distracted driving related crash.



This section of the corridor is a busy residential and commercial area with multiple driveways on each side of Brownsville Rd.







Crash (3)



# Parkfield St & Brownsville Rd

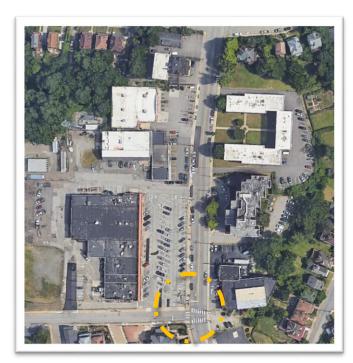
#### **Identified Safety Issues**

- High pedestrian generators: Carrick High School, shops and apts.
- Speeding issue around the curve.
- New signal in place with scramble phase. Signage needs to be added to indicate diagonal crossing .



This section of the corridor is a busy residential and commercial area with multiple driveways on each side of Brownsville Rd.

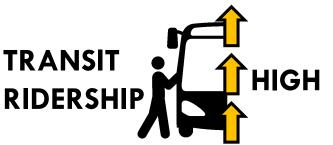




# Crash Nature



- Hit Fixed Object Rear End
- Sideswipe





#### **Overbrook Blvd & Brownsville Rd**

#### **Identified Safety Issues**

- Un signalized pedestrian crossing needs improvement ۲
- Sidewalk upgrades needed ٠
- Evaluate left turn lane necessity ٠
- Discourage parking near crosswalk. ٠



Vehicles turning on to Brownsville Rd from Overbrook have limited sightline due to adjacent buildings.



• Rear End

Crashes

• Sideswipe







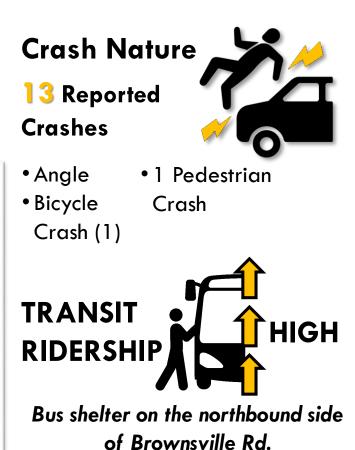


#### Ravella Ave to Becks Run Rd

#### **Identified Safety Issues**

- Multiple pedestrian generators: Concord Elementary
   School, St. Pius X Byzantine Catholic, Apartment buildings.
- Church bus stop connection and pedestrian crossing accommodation needed.
- Mid-Block crossing location
- Proper parking lane delineation, access management needed, and sight line improvements needed around church and school.







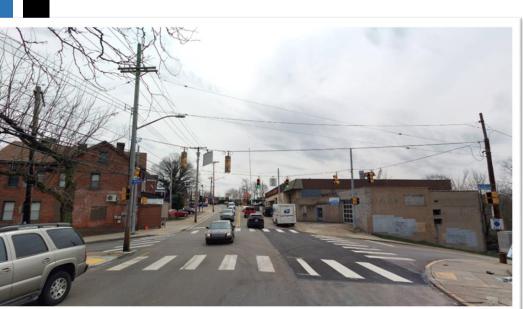


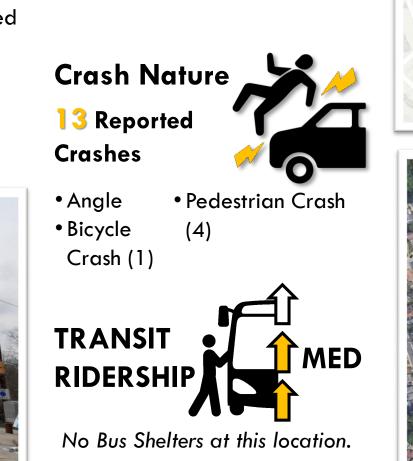


# Biscayne Dr / Becks Run Rd

#### **Identified Safety Issues**

- Multiple pedestrian generators: Concord Elementary School, St. Pius X Byzantine Catholic, Apartment buildings.
- Signal upgrade needed.
- Lighting upgrades needed





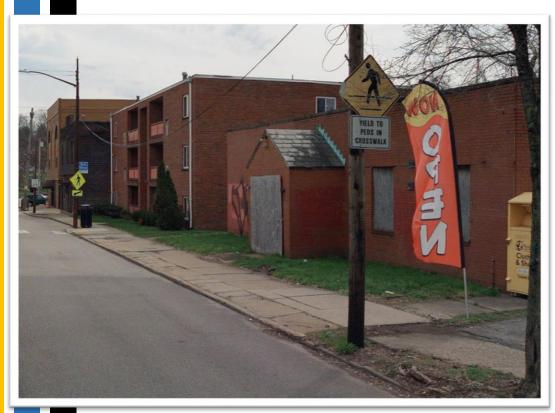




## Clifton Blvd & Brownsville Rd

#### **Identified Safety Issues**

- Un-signalized pedestrian crossing location
- Lighting upgrades needed
- Sidewalk upgrades needed



Sidewalk on the south side of Brownsville Rd approaching Clifton Blvd is deteriorated and needs improvements.

#### Crash Nature 3 Reported

**Crashes** 

• Sideswipe - All night time



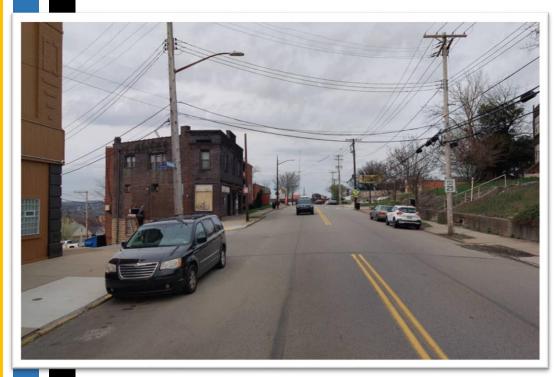




# Wycox St & Brownsville Rd

#### **Identified Safety Issues**

- Speeding concerns.
- Sightline improvement needed.

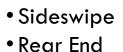


Wycox and Brownsville is not an appropriate intersection for pedestrian crossings. Pedestrians should be encouraged to cross at Clifton.

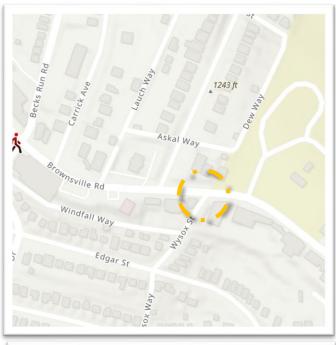
#### Crash Nature

5 Reported Crashes













#### **Churchview Ave & Brownsville Rd**

#### **Identified Safety Issues**

- Sightline issues. Intersection should be realigned from "Y" to "T"
- Un signalized pedestrian crossing improvements needed.
- Crosswalk upgrades needed. ٠
- Lighting upgrades needed. ٠
- Sightline issues at Gas station due to parking •
- Sidewalk upgrades needed •
- Lighting upgrades needed •
- Lane delineation improvements needed .



The "Y" intersection creates sightline issues for vehicles turning on to Brownsville Rd.

水水



• Sideswipe • Rear End

Crashes





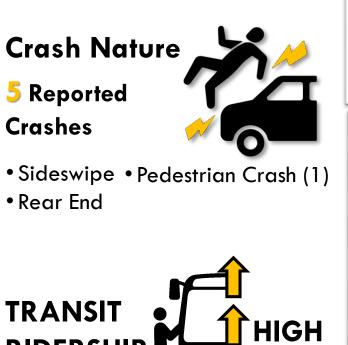
# **Belplain St & Brownsville Rd**

#### **Identified Safety Issues**

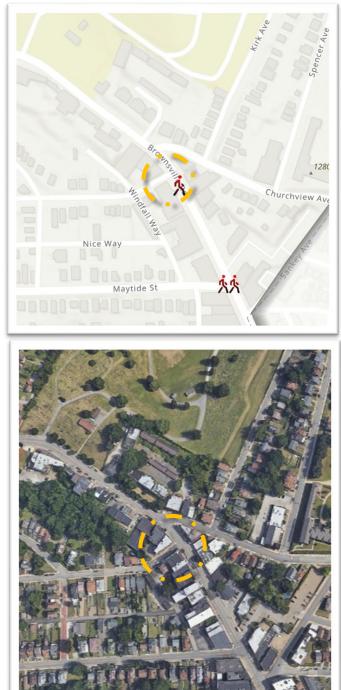
- Sightline issues due to grade.
- Sidewalk upgrades needed ٠
- Crossing should be discouraged at this intersection and directed ٠ to Chruchview Ave.



The grade of Belplain St creates a sightline issue for vehicles approaching Brownsville Rd.







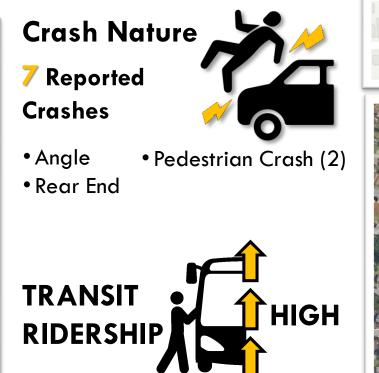


# Maytide St & Brownsville Rd

#### **Identified Safety Issues**

- Pedestrian crossing amenities need upgrade.
- Need to evaluate if left turn lane is necessary
- Sidewalk upgrades needed
- Lighting upgrades needed









# Potential Treatment Options

- Un-signalized Crosswalk Safety Improvements
- Intersection Safety Improvements
- Corridor Safety Improvements



#### **Un-Signalized Crosswalk Safety Improvements**

#### Potential Treatment Options for these areas:

- Mid Block Pedestrian Refuge Island
- Raised Crosswalk



#### Mid Block Pedestrian Refuge Island

Provides pedestrians a safety island midway through crossings.



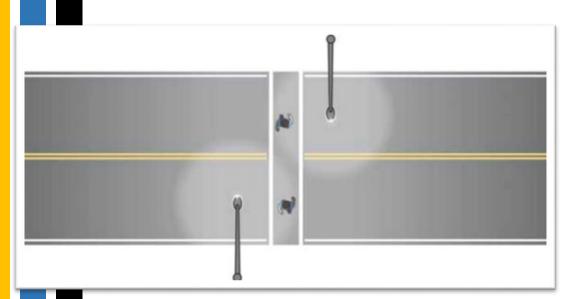
**Raised Crosswalk** Increases pedestrian visibility and reduces vehicle speeds.



#### **Un-Signalized Crosswalk Safety Improvements**

#### Potential Treatment Options for these areas:

- Lighting Improvements near the un signalized crossings and the overall corridors.
- Rectangular Rapid Flashing Beacon (RRFB)



#### **Lighting Improvements**

Increased street lighting improves visibility of pedestrians as well as stationary objects for drivers.



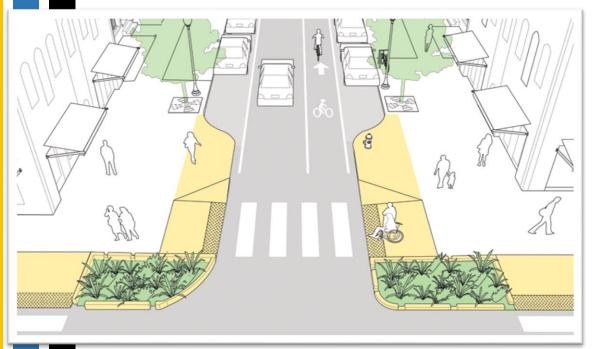
#### **Rectangular Rapid Flashing Beacon**

RRFB's improve visibility of crosswalks and pedestrians by alerting drivers to pedestrian crossings.



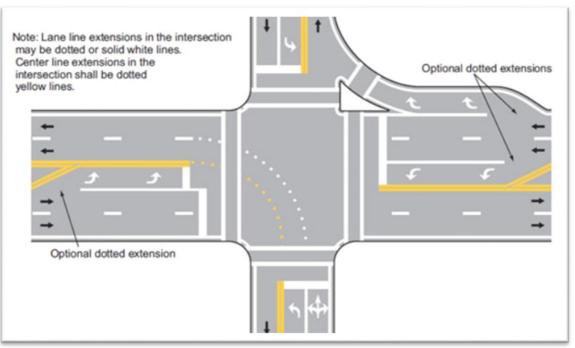
#### Potential Treatment Options for these areas:

- Curb Extension
- Lane Delineation



#### **Curb Extension**

Extending the curb at intersections increases visibility of pedestrians entering the crosswalk by removing sightline obstructions like parked cars and reduce crossing length.



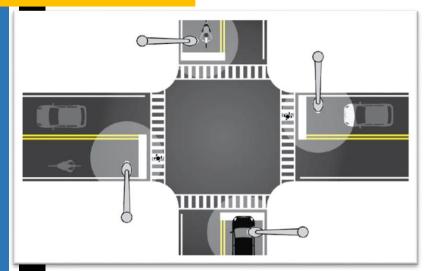
#### Lane Delineation

Lane delineations increase driver awareness and direct drivers to a clearer path through the intersection reducing crashes.



#### **Potential Treatment Options for these areas:**

- Curb Ramp Upgrades
- Lead Pedestrian Interval (LPI)
- Lighting Improvements



#### **Lighting Improvements**

Increased street lighting improves visibility of pedestrians as well as stationary objects for drivers.



#### Lead Pedestrian Interval

LPI gives pedestrians a head start entering the crosswalk (typically 3-7 seconds) before vehicles are given a green indication. Pedestrians can better establish their presence in the crosswalk before vehicles enter the intersection.



#### **Curb Ramp Upgrades**

Curb ramp upgrades provide ADA compliant access to the sidewalk at crossings. These upgrades include Detectable Warning Surfaces (DWS).



#### Potential Treatment Options for these areas:

- Low-Cost Intersection Daylighting
- Low-Cost Pedestrian Crossing Refuge Area



#### Low-Cost Intersection Daylighting

Painted curb extensions are a low cost easily installed safety improvement that visually and physically narrow the roadway, creating safer and shorter crossings for pedestrians.



Low-Cost Pedestrian Crossing Refuge Area

Painted pedestrian refuge areas with flex post delineation are a low-cost and easily installed safety solutions that provides a safe area in the middle of large crossings.



#### Potential Treatment Options for these areas:

- Intersection Realignment.
- Traffic signal upgrade.



# $\odot$ 11

#### Intersection Realignment

Visibility at acute angle, or "Y", intersections is much lower and creates more sightline issues compared to perpendicular, or "T", intersections. Realigning these "Y" intersections to as close to perpendicular as possible will improve sightlines and increase safety for drivers and pedestrians.



#### **Corridor Safety Improvements**

#### **Potential Treatment Options for these areas:**

Advance Curve Awareness

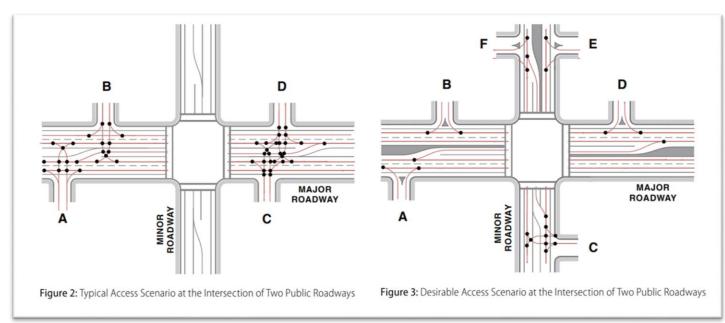
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Access Management



#### Advance Curve Awareness

Signage and pavement markings alert drivers as they approach sharp changes in the road direction. These advance signs and markings allow drivers to slow down prior to reaching the curve.



#### **Access Management**

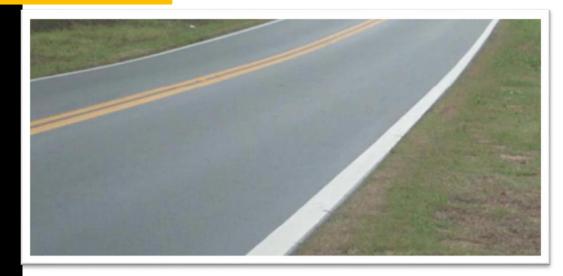
Access Management (AM) is the proactive management of vehicular access points to land parcels adjacent to roadways. Access management techniques can include Access Spacing, Driveway Spacing, Safe Turning Lanes, Median Treatments, and Right of Way Management. Access Management promotes the safe and efficient use of the transportation network that maintains mobility.



#### **Corridor Safety Improvements**

#### **Potential Treatment Options for these areas:**

- Edge & Parking Lane Delineation.
- Existing signage upgrades. .



#### Lane Delineations

Adding edge/parking lines and increasing the size of the lines from 4" to 6" helps drivers better identify the edge of the travel lanes and see the road alignment ahead.



#### Signage Audit

Signage throughout the corridor needs to be upgraded. A complete audit will be performed as a part of that.



# Thank You

For More Information-Panini A. Chowdhury, AICP, RSP. Project Manager-Planning Department of Mobility & Infrastructure (DOMI) City of Pittsburgh. Email-panini.Chowdhury@pittsburghpa.gov