

# Crash Analysis Studio

Session 7: Brandon, Manitoba

July 21, 2023



# Today's Panelists

Tristan Cleveland

Michelle Lam

Areta Donnelly

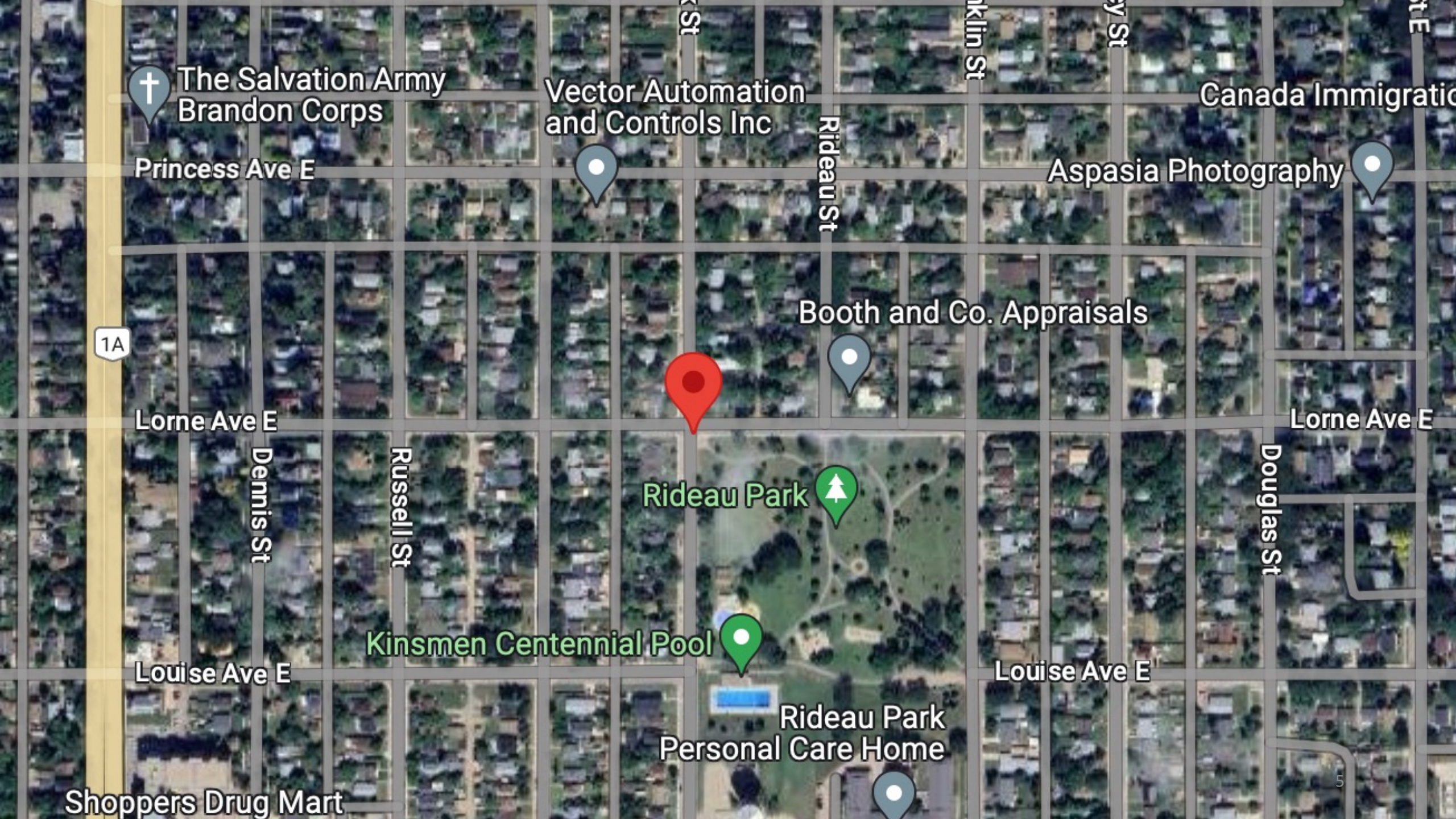
Edward Erfurt

# Crash Information

- Grant Hamilton was cycling eastbound when he was struck by a vehicle at the intersection of Lorne Avenue E and Park Street.
- Crash occurred shortly after 10:00pm on June 27, 2022
  - Crash report lists initiation time at 10:05pm and collision occurrence time as 10:22pm
  - Grant flipped over the hood – he lost his left pinky finger, had a separated shoulder, and a torn meniscus in his knee.
  - Grant was treated at Winnipeg Health Sciences Centre where he received 25 stitches and his hand reshaped.
- Grant reports the street lights were on.

# Crash Information

- The motorist was driving a Grey Nissan Versa westbound on Lorne and turning left to go south onto Park Street.
- Media indicates that the motorist was fined under the Highway Traffic Act for driving without a valid license.
- Crash report indicates there were no witnesses and no video surveillance; Grant informed us he was cycling with his wife.



The Salvation Army  
Brandon Corps

Vector Automation  
and Controls Inc

Canada Immigration

Princess Ave E

Aspasia Photography

Booth and Co. Appraisals

1A

Lorne Ave E

Lorne Ave E

Rideau Park

Kinsmen Centennial Pool

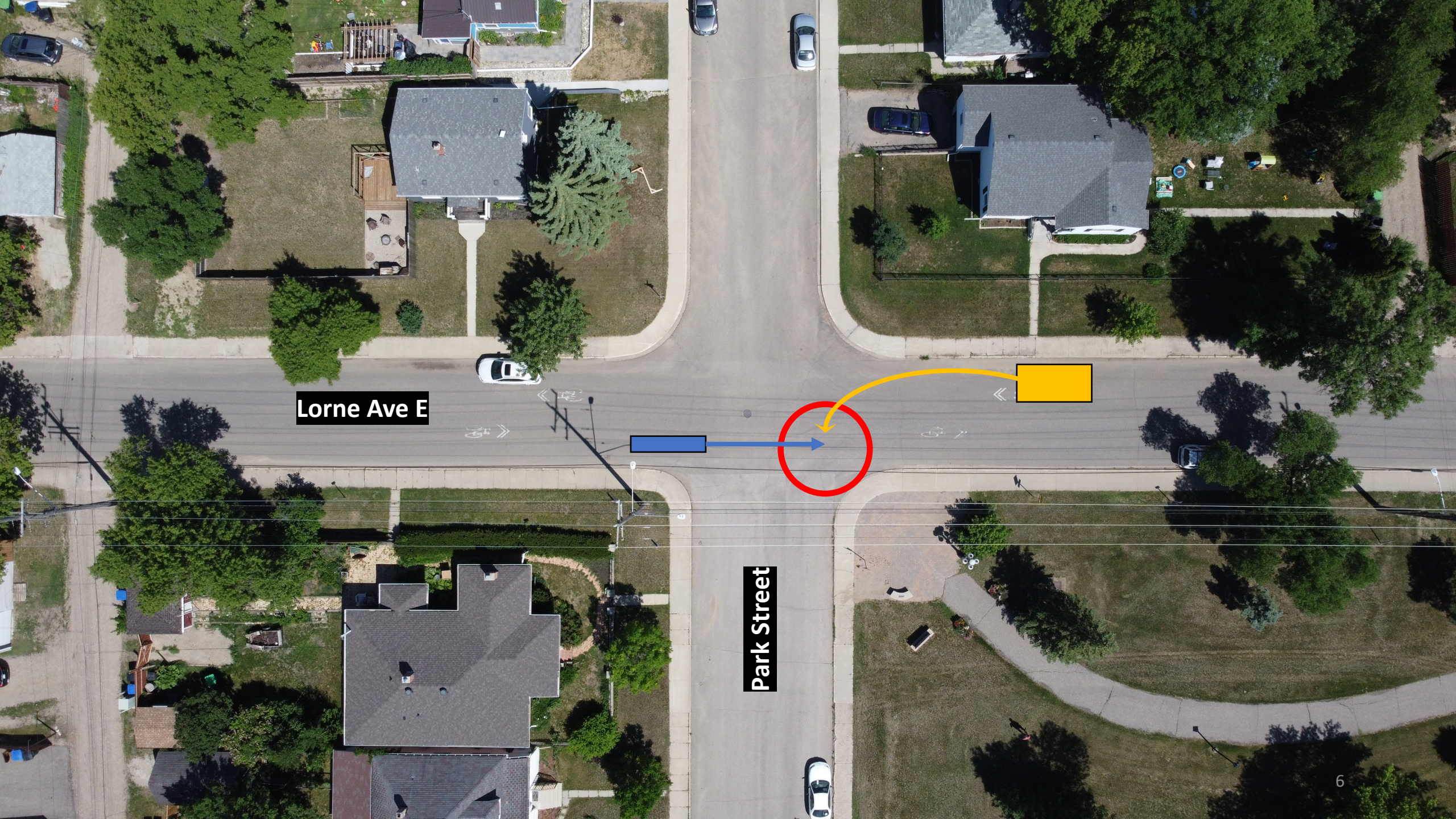
Rideau Park  
Personal Care Home

Louise Ave E

Louise Ave E

Shoppers Drug Mart

5



Lorne Ave E

Park Street

# Crash Details

- The crash occurred at the intersection of Lorne Ave E and Park Street
- Crash report states that the motorist failed to yield right of way to oncoming traffic while making a left turn.
  - In this case the oncoming traffic was a cyclist traveling in a marked shared lane.
- The motorist stayed on the scene after the crash occurred.
  - Motorist and Grant communicated after the collision - by chance - at the scene on July 13, 2022.
- No impairment tests were conducted.

# Overall Site Conditions

- **Lorne Avenue and Park Street** are two-way streets consisting of 2 shared travel lanes (automobiles & bicycles) with accommodation for unmarked parallel parking
  - This street section could be described as a “**Yield Street**”
- “**Sharrows**” are painted on Lorne Avenue along with street signs indicating that motorists should expect to share the lane with bicycles
- The posted speed at the time of the crash was 50km/h (~31 mph) for both streets
- The intersection is unsignalized and there are no marked crosswalks at the crash location.
- Southbound Park Street has a slight road grade (decline) from the intersection.





**Westbound Lorne  
Franklin Street Intersection**



**Westbound Lorne  
Rideau Street Intersection**



**Westbound Motorist on Lorne  
Approaching Intersection**

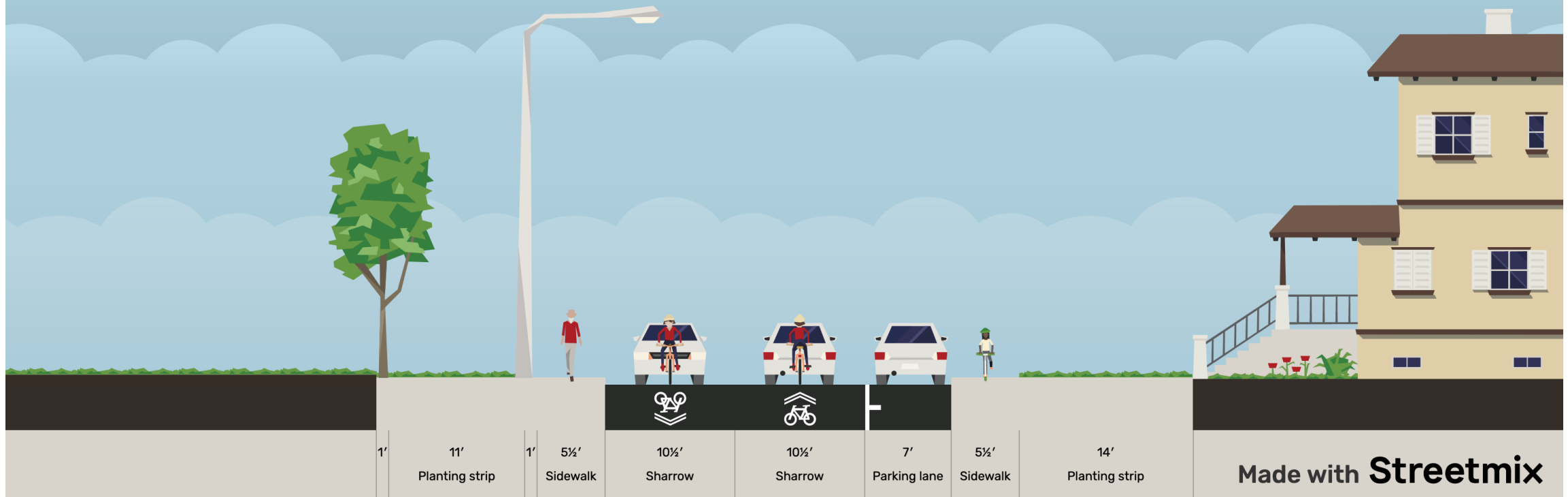


**Westbound Lorne Avenue  
Entering Park Street Intersection**



Wide Angle facing SE toward Rideau Park

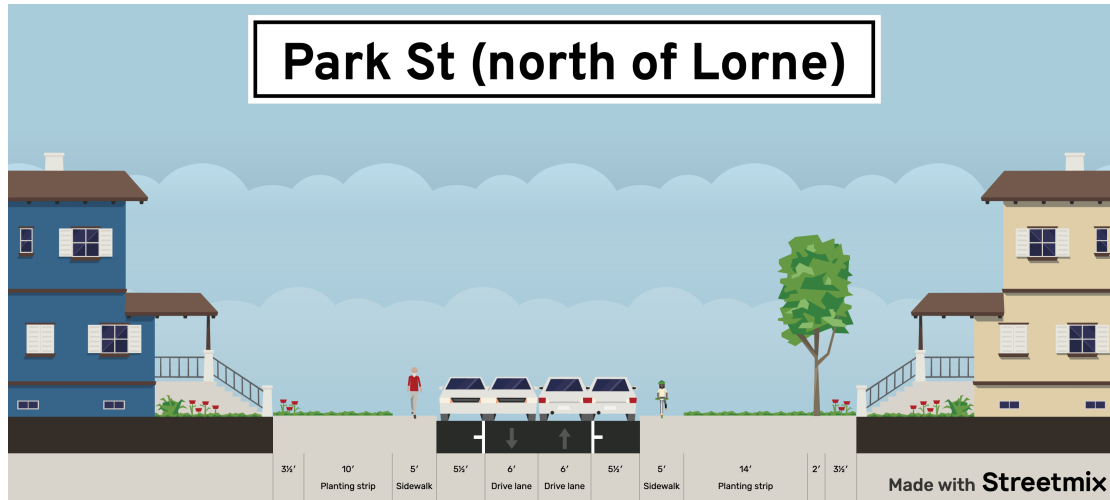
# Lorne Ave (east of Park St)



2 Sidewalks: 5.5' each  
1 North Parking Lane: 7'  
2 Travel Lanes: 10.5' each  
Width: ~39

## Measurements Recorded While Facing Park & Lorne Intersection

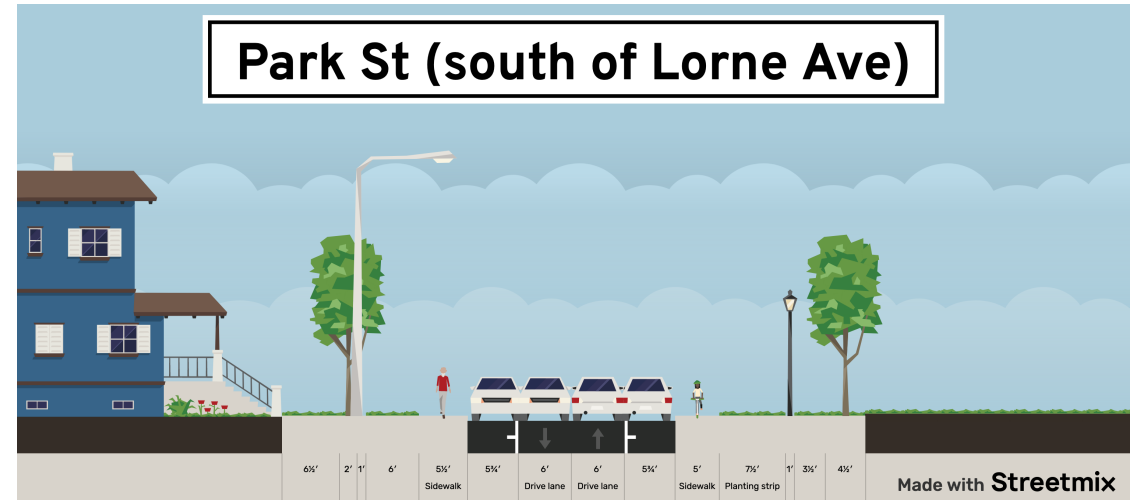
### Park St (north of Lorne)



#### Facing South

- 2 Sidewalks: 5' each
- 2 Parking Lanes: 5.5' each
- 2 Travel Lanes: 6' each
- Width: ~33'

### Park St (south of Lorne Ave)



#### Facing North

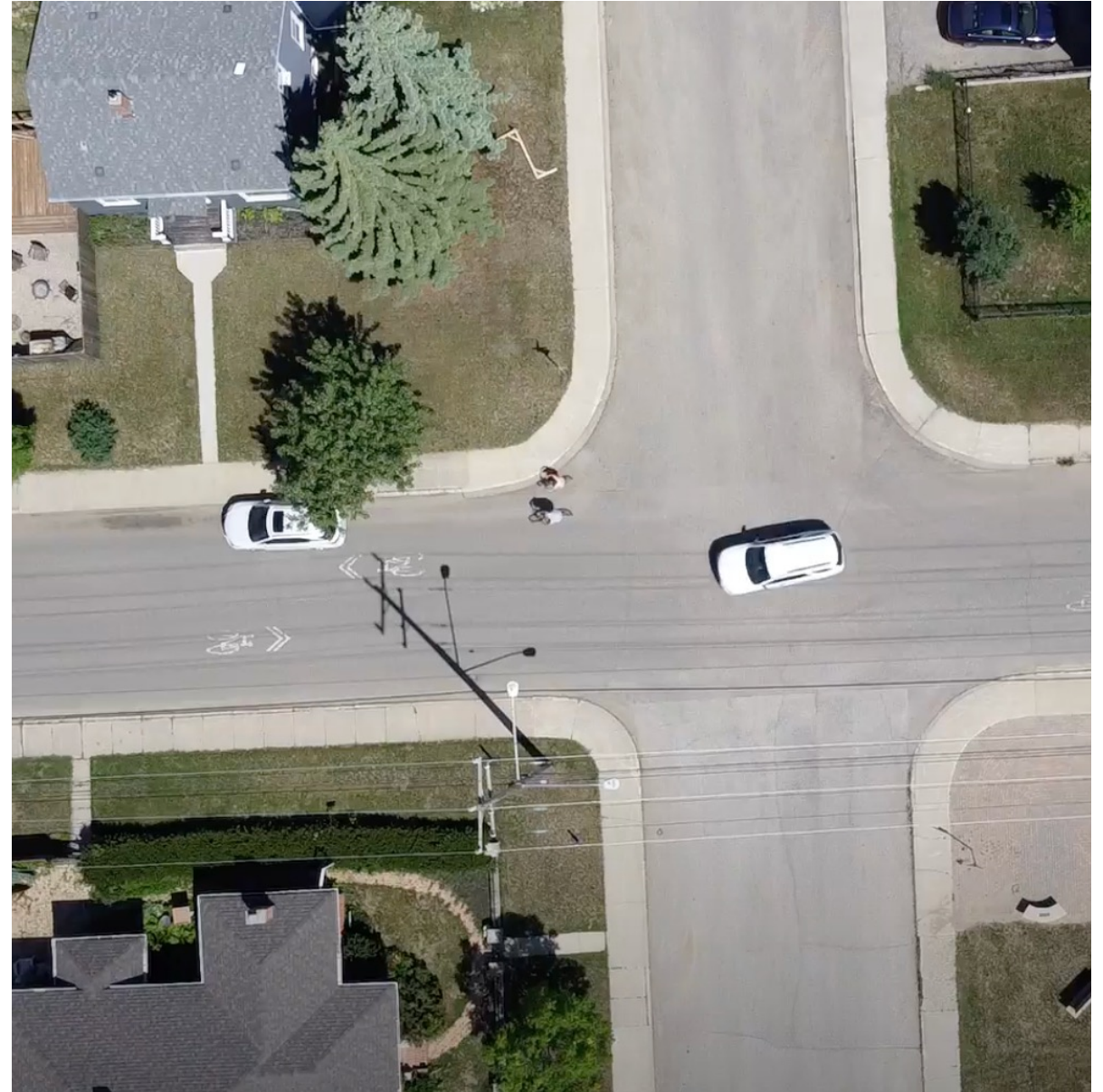
- 2 Sidewalks: one 5.5'; one 5'
- 2 Parking Lanes: 5.75' each
- 2 Travel Lanes: 6' each
- Width: ~34'



**Westbound Car turning South**



**Cyclists & Motorists (Pre-Intersection)**



**Cyclists & Motorists (Inside Intersection)**



# Overall Site Conditions

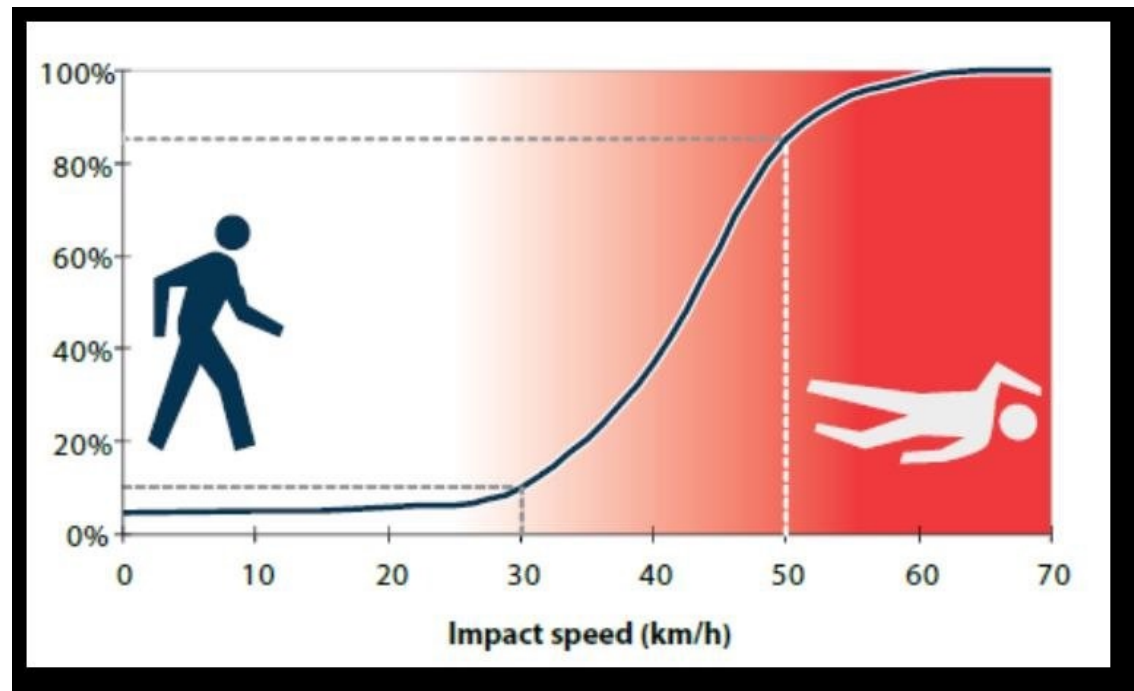
- Sub-Urban Residential Development Pattern
  - Small single unit homes on narrow lots
  - Regular street grid with alleys
  - Streets have sidewalks with limited curb cuts
- Rideau Park is in the center of the neighborhood
  - Park includes playgrounds, sports field, the pool, and community buildings
  - Fronts on Lorne at Crash location
- Proximity to Provincial road 457, as well as John Bracken Highway (1A) and 18<sup>th</sup> Street (highway 10)
- Nearby Brandon University and Assiniboine Community College
- The speed limit at the time of the crash was 50 km/h. As of July 1<sup>st</sup> 2023, City has piloted a reduced speed 30 km/h perimeter around Rideau park (not a direct result of this crash).

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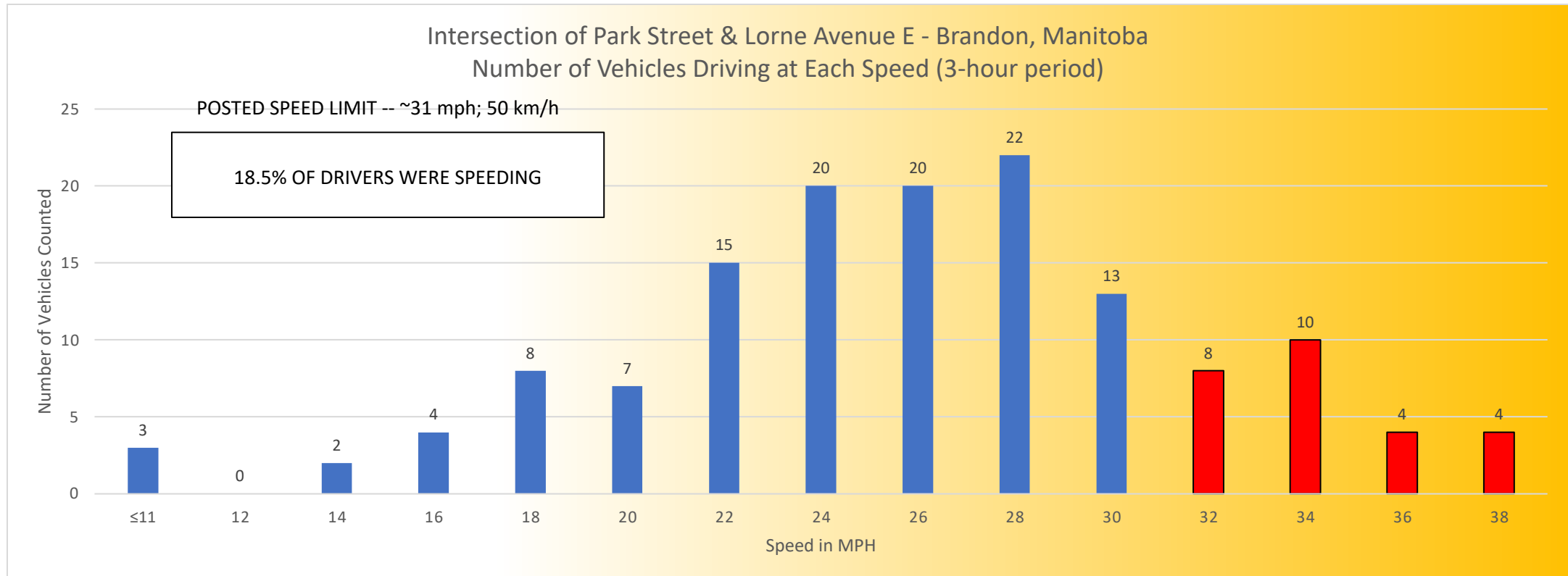
- Preliminary Speed Study indicates significant number of automobiles traveling at fatal speeds

The effects of higher speed limits on traffic fatalities in the United States, 1993–2017.

-Insurance Institute for Highway Safety

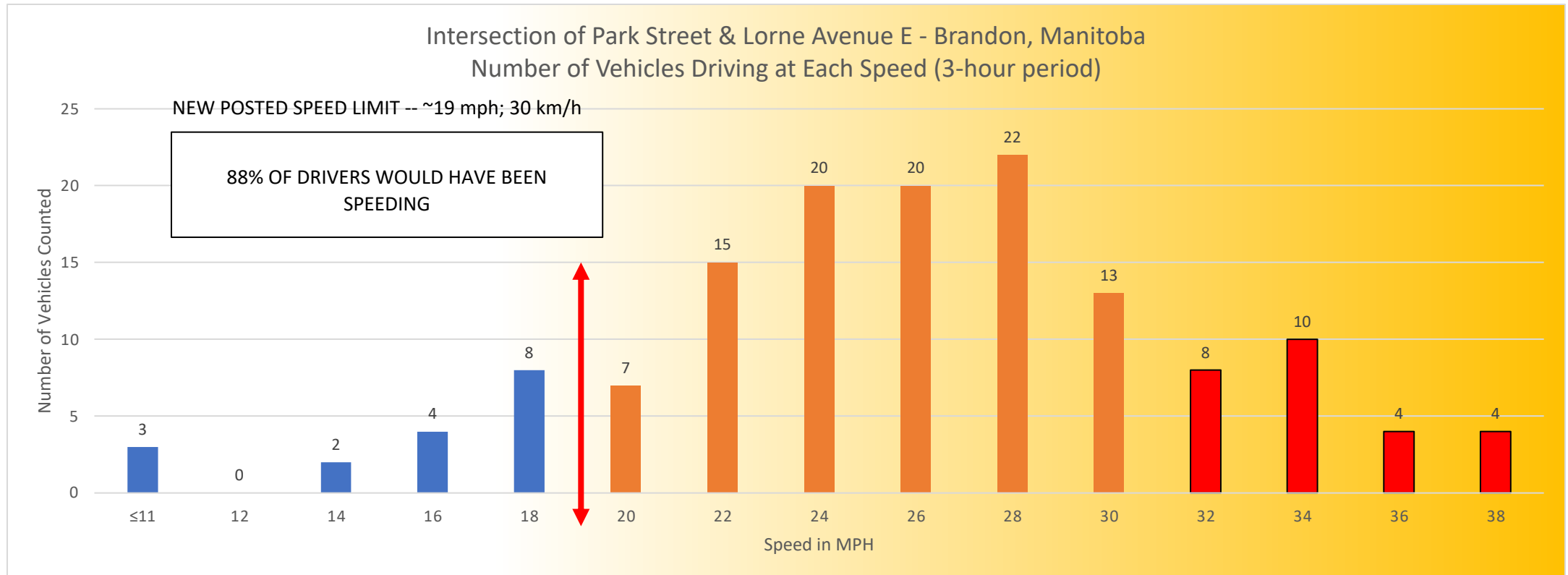


# Speed Data



Data gathered during construction – 140 cars tracked  
12 pedestrians & 14 cyclists tallied  
85<sup>th</sup> percentile speed: 32 mph

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# Acknowledgements & Special Thanks

- Our Panelists Michelle, Areta, Tristan, and Edward
- Our nominator, Grant Hamilton
- Other Brandon community members and friends of our team that assisted over the past couple months
- Strong Towns Staff