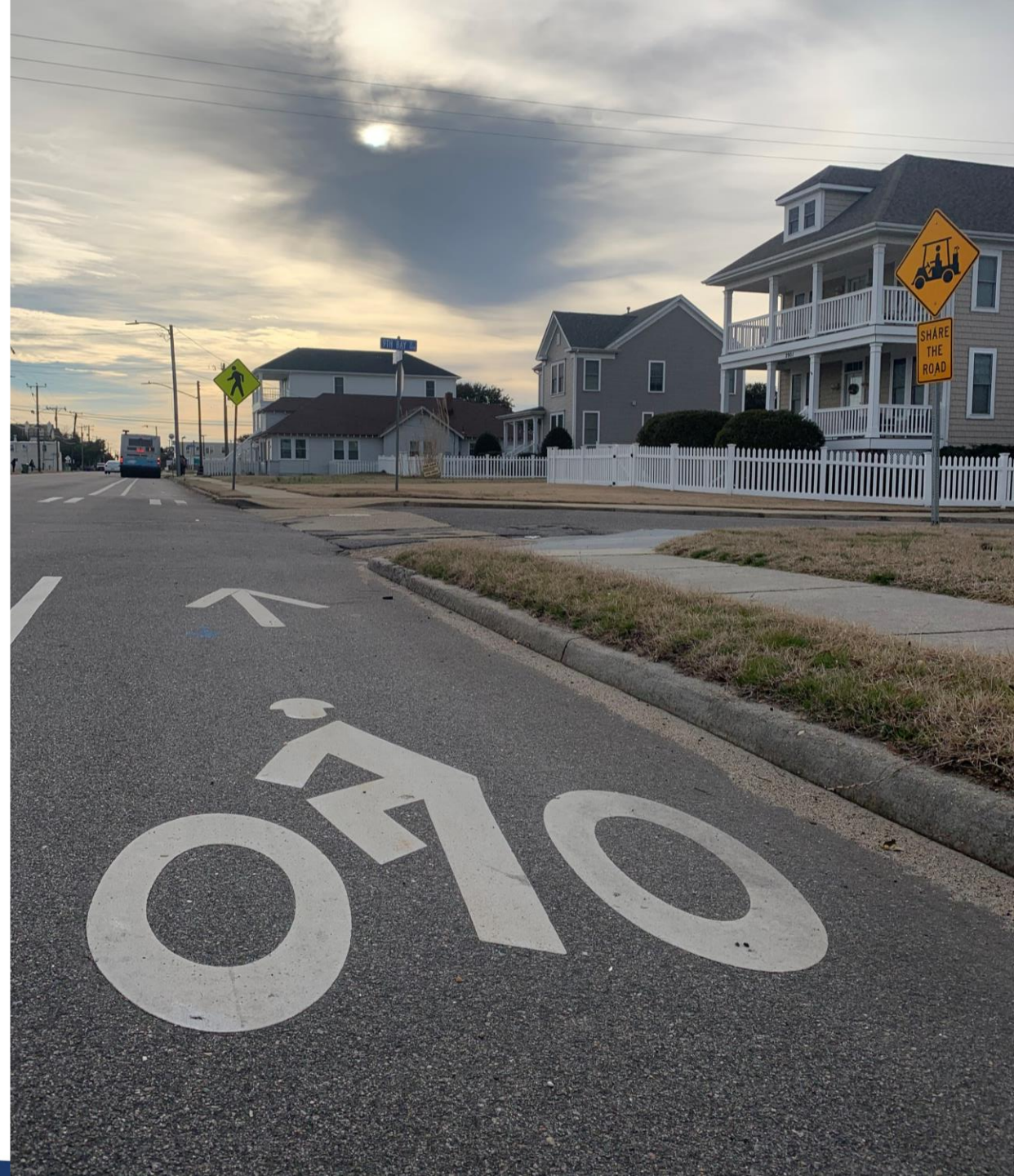




Ocean View Avenue Comprehensive Transportation Study

Community Workshop #1

March 14, 2022





Welcome and Introductions

Agenda

- Welcome and Introductions
- Project Overview and Background
- Existing Conditions Analysis
 - Safety Analysis
 - Speed Analysis
 - Traffic Operations Analysis
- BREAKOUT ROOMS
- Project Timeline and Next Steps
- Input Opportunities
- Q&A and Closing

Housekeeping

- Please keep your microphone muted.
- Questions will be addressed in the breakout rooms and at the end of the meeting.
- If you have a question, you may enter it using the Chat feature or raise your hand to be called on verbally.

The background image shows a residential street scene. In the foreground, there is a paved road with a white arrow pointing forward and a large white bicycle symbol. A yellow diamond-shaped pedestrian crossing sign is visible on the left side of the road. In the background, there are several houses, including a prominent two-story house with a white picket fence in front of it. The sky is overcast with grey clouds. A diagonal graphic element consisting of a green and a blue stripe runs from the bottom left towards the top right, separating the image from the text area.

Project Overview and Background

Project Overview

- Study Area – Ocean View Avenue
 - From Willoughby Spit to East Beach
- This study came from requests from communities along Ocean View Ave
- Evaluate feasibility of potential changes to improve transportation and safety along the corridor
- Not just a bike lanes project!



Project Scope

- Evaluate feasibility of:
 - Incorporating golf carts into bike lanes
 - Expanding bike lanes along Ocean View Avenue between 1st View Street 19th Bay Street
 - Reducing the speed limit
 - Improving pedestrian crossings and beach access
- Scope items:
 - Safety analysis
 - Speed analysis
 - Traffic operations analysis
 - Conceptual alternatives development and assessment



What's Not Included?

- Detailed traffic analysis west of 1st View Street is not part of scope
 - Lane repurposing not currently being studied through Willoughby
 - This area has recently been studied as part of VDOT's HRBT and HREL studies
- Transit not a focus of this study
 - Transit routes and service were studied as part of Multimodal Transportation Master Plan
 - Improvements to bus stop facilities may be considered



Project Background

Golf Cart Accommodations

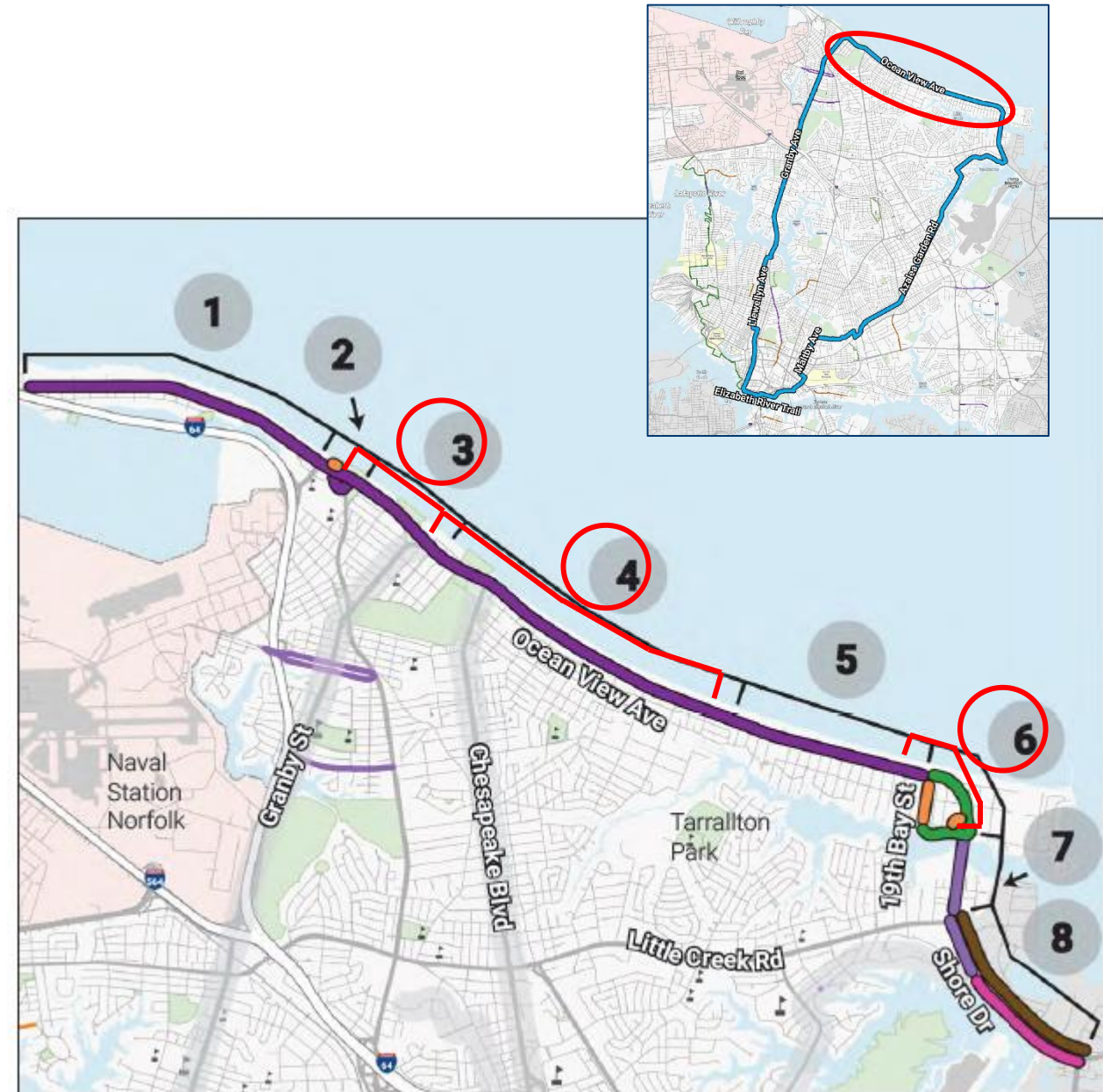
- Inquiries from residential communities
- Potential use of golf carts to cross and/or travel along Ocean View Ave
- Speed limit reduction would be required based on code
- Evaluate feasibility of speed limit reduction and assess alternatives for accommodating golf carts with bike lanes



Project Background

Recommendations from Other Plans

- *Bicycle & Pedestrian Strategic Plan*
 - Corridor 10, Segments 3, 4 & 6
 - Part of the 22.5-mile citywide loop
- *Multimodal Transportation Master Plan (Draft)*
 - Bicycle/scooter, pedestrian, and transit modal emphasis



Project Background

Supporting Vision Zero

- Vision Zero policy adopted in 2019
- Strategy to eliminate all crash fatalities and severe injuries
- Slower speeds save lives
- Lane repurposing is a proven safety and traffic calming countermeasure



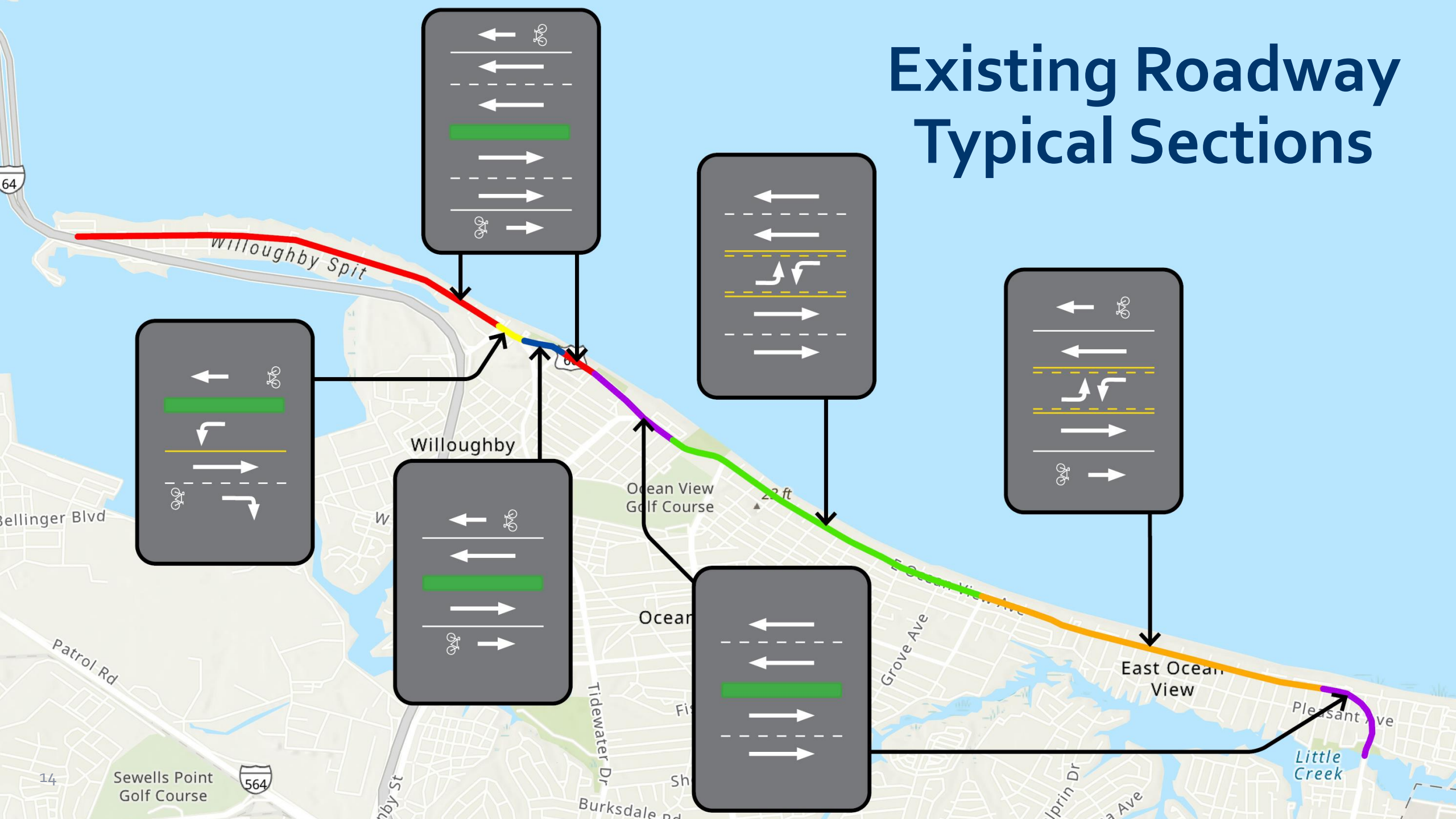


POLL QUESTIONS



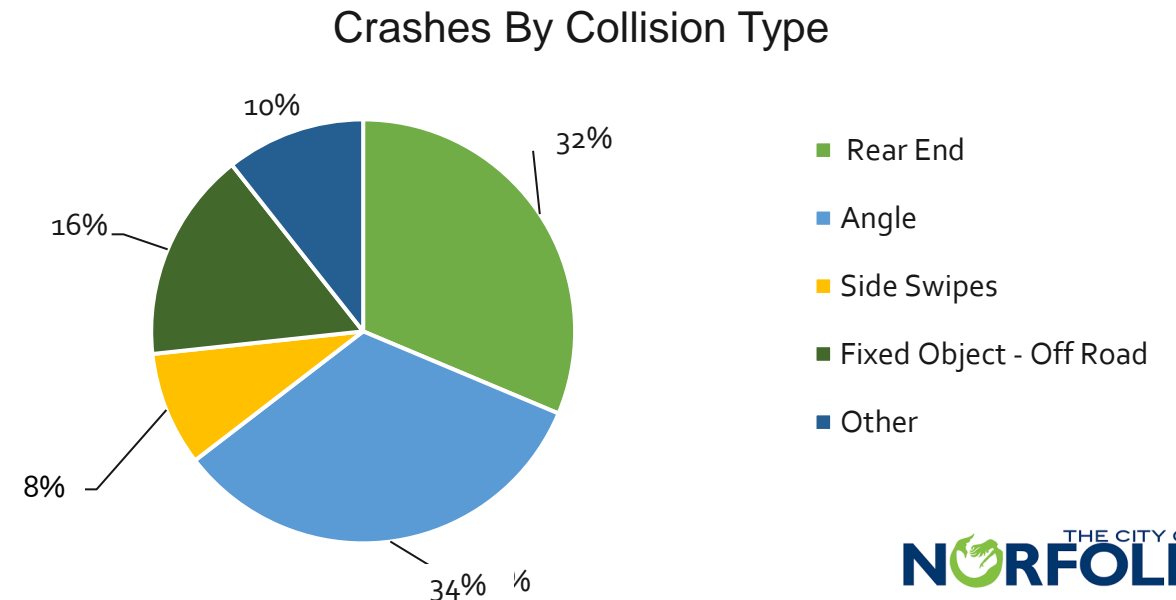
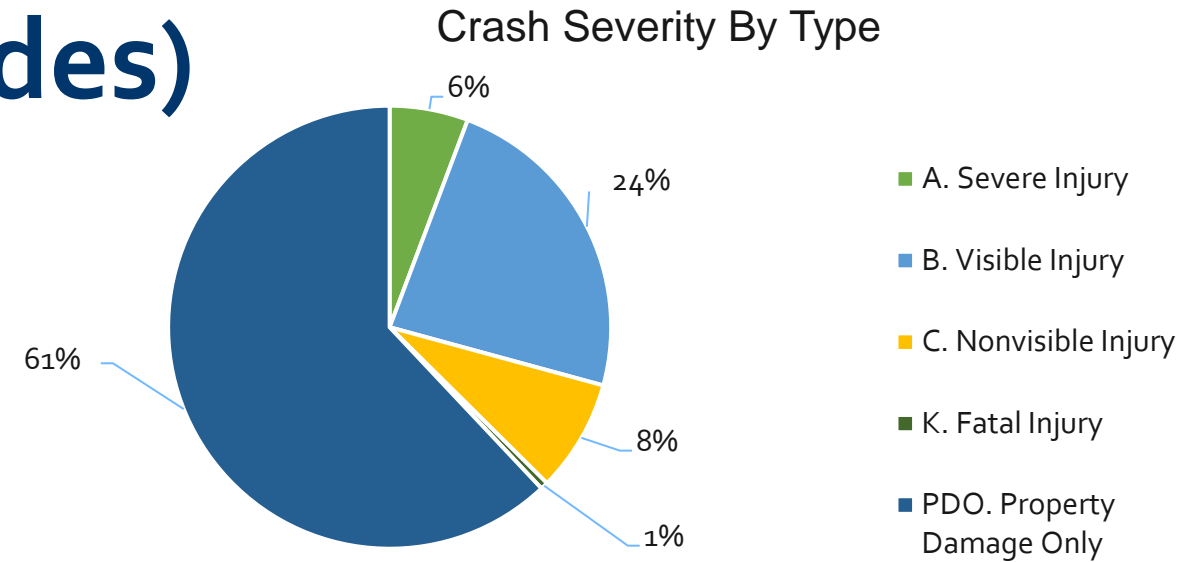
Existing Conditions Analysis

Existing Roadway Typical Sections

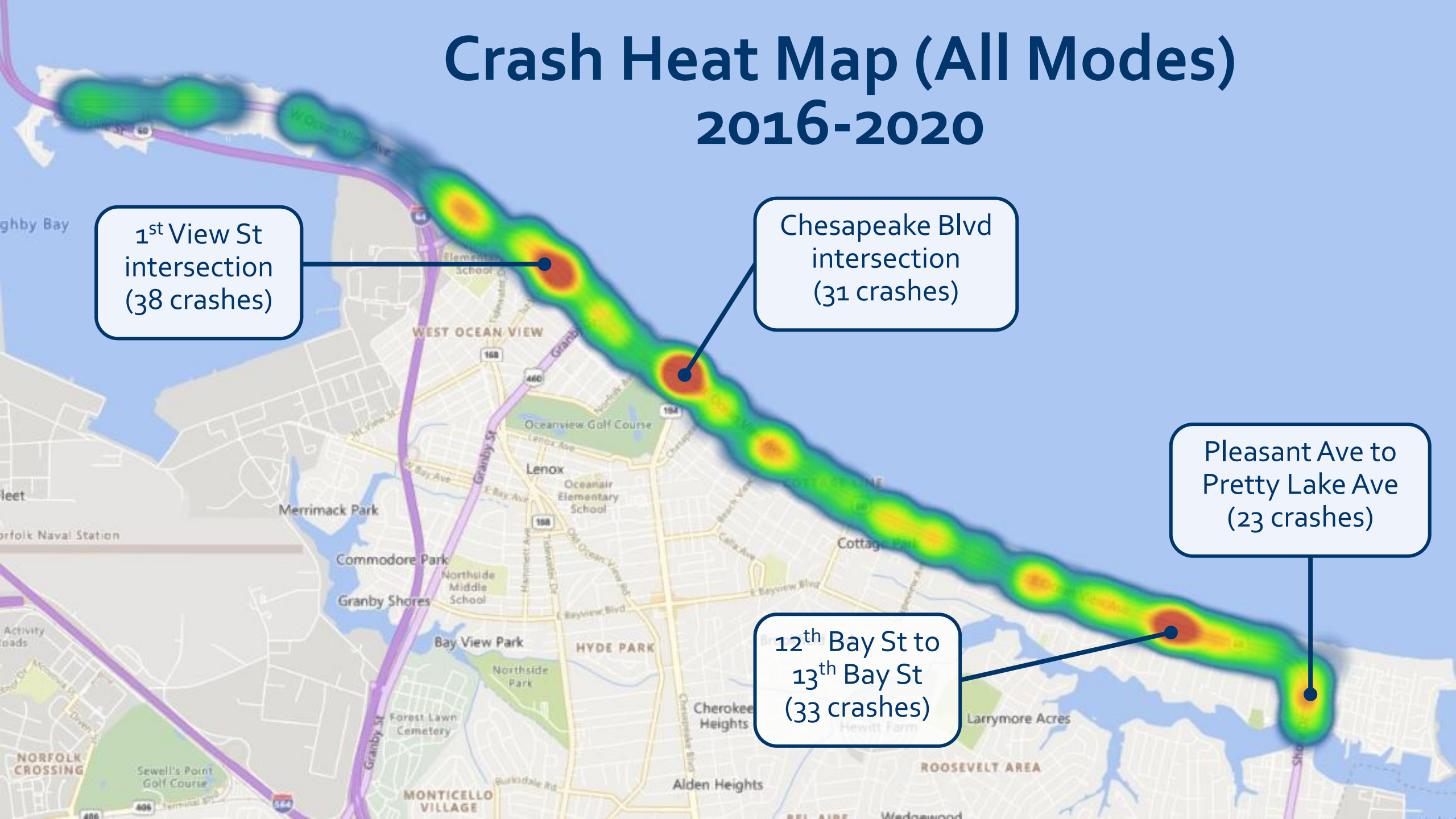


Crash Analysis (All Modes)

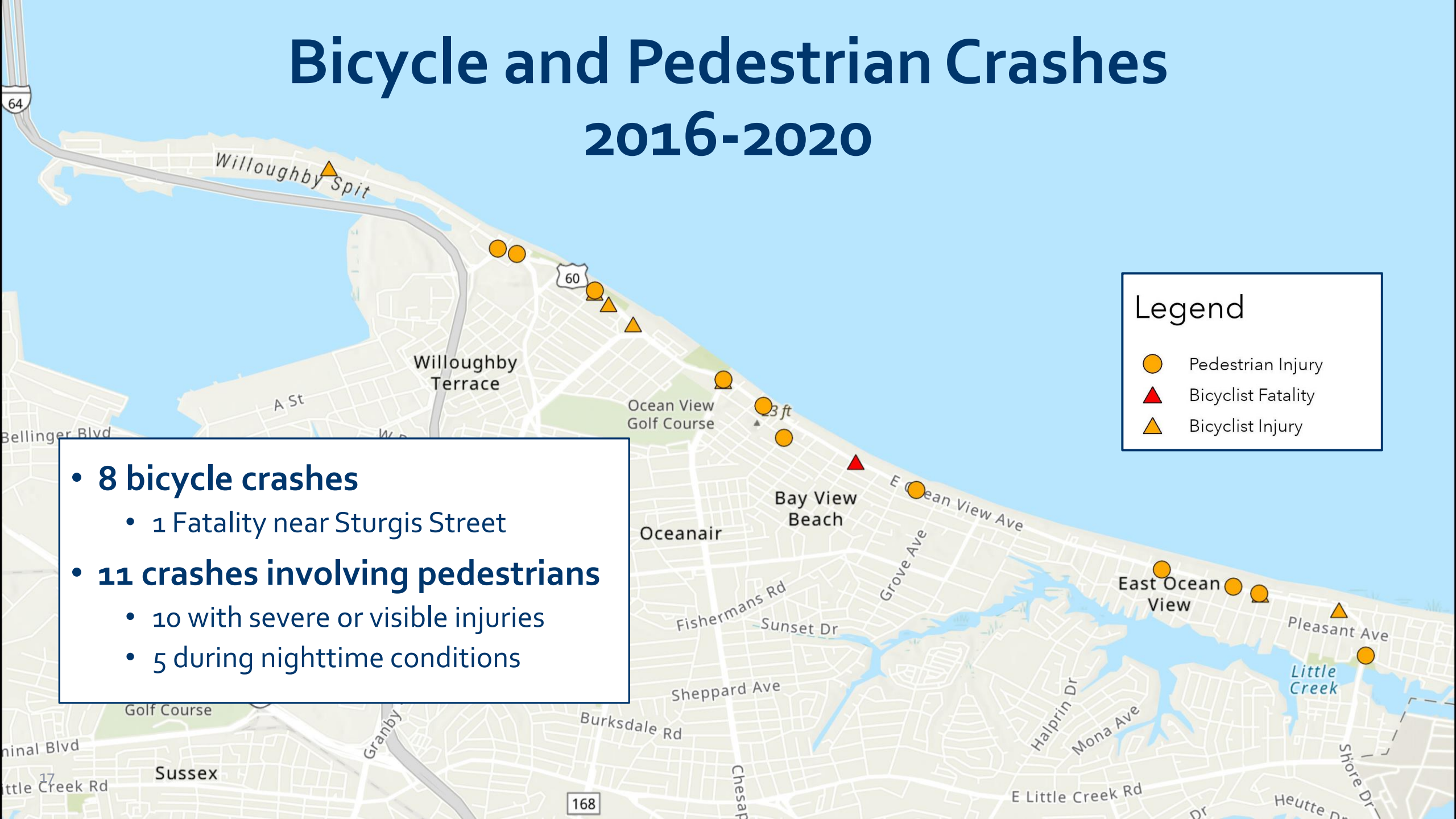
- 387 total crashes from 2016 to 2020
- 2 fatalities reported in 2017
- 39% of all crashes result in injury
- Rear end and angle type crashes account for 66% of total crashes



Crash Heat Map (All Modes) 2016-2020

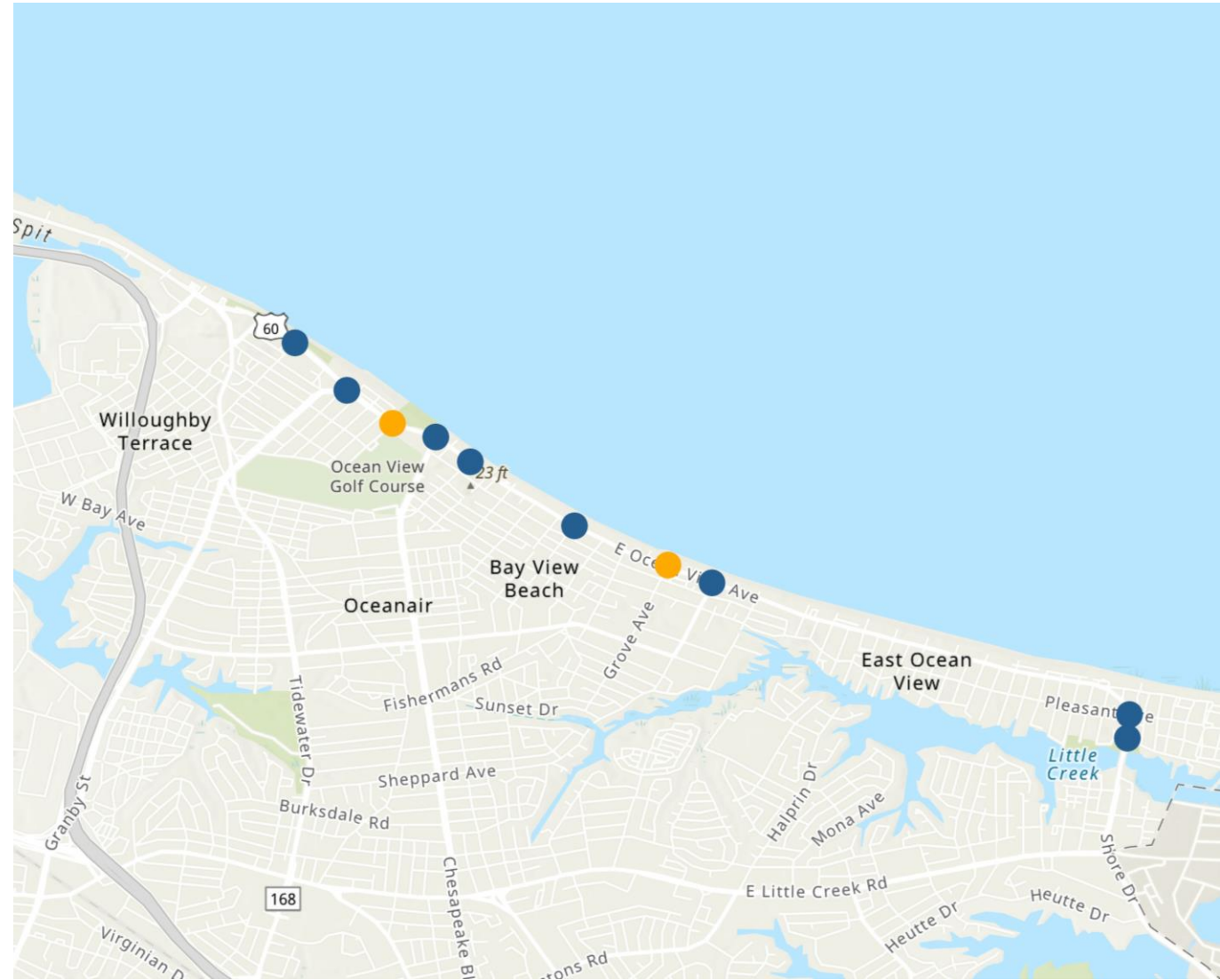


Bicycle and Pedestrian Crashes 2016-2020



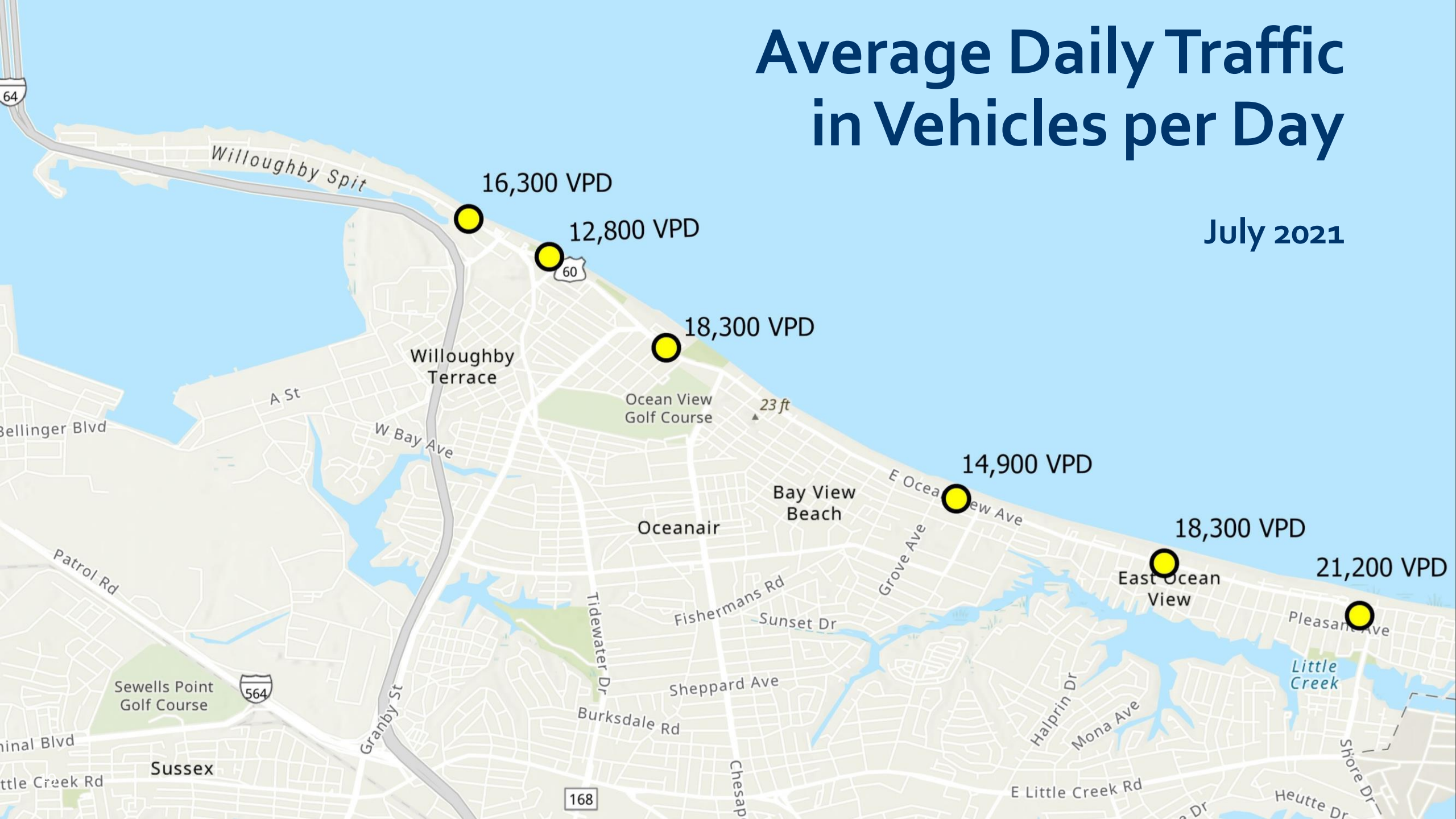
Data Collection

- 12-hour intersection turning movement counts
 - 8 signalized and 2 unsignalized intersections
 - Conducted on weekday in July 2021
- 24-hour roadway speed and volume counts
 - 6 locations along corridor
 - Conducted for 7-day period in July 2021



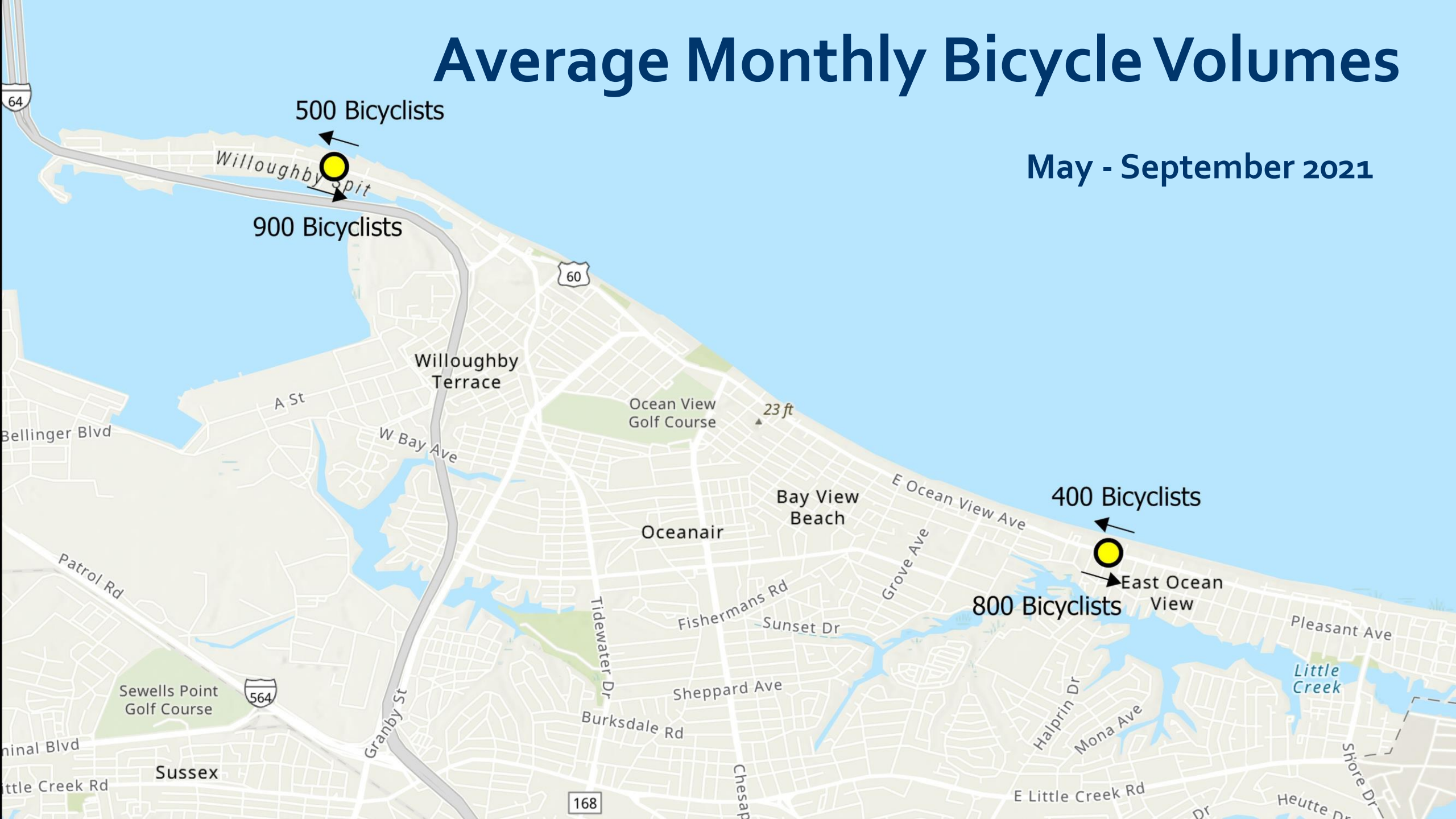
Average Daily Traffic in Vehicles per Day

July 2021



Average Monthly Bicycle Volumes

May - September 2021

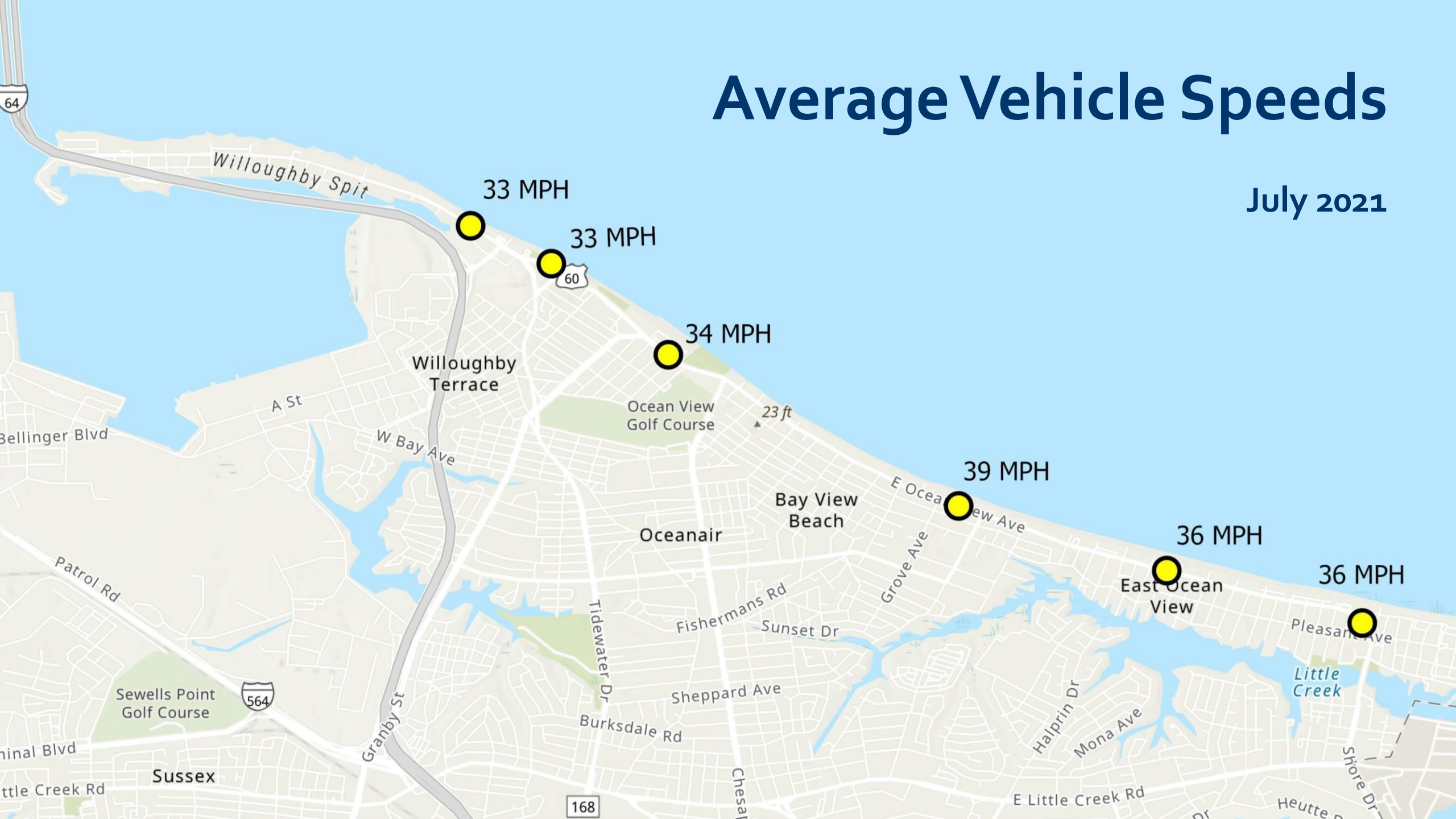


Speed Analysis

- Average Speed – statistical average of individual speeds of all vehicles observed to travel past collection point
- 85th Percentile Speed – speed at or below which 85% of all vehicles are observed to travel past collection point
- Although the speed limit is posted at 35 MPH, 85th percentile speeds along the corridor range between 39 MPH and 43 MPH
- Travel speeds are generally observed to be lower in sections where bicycle lanes exist

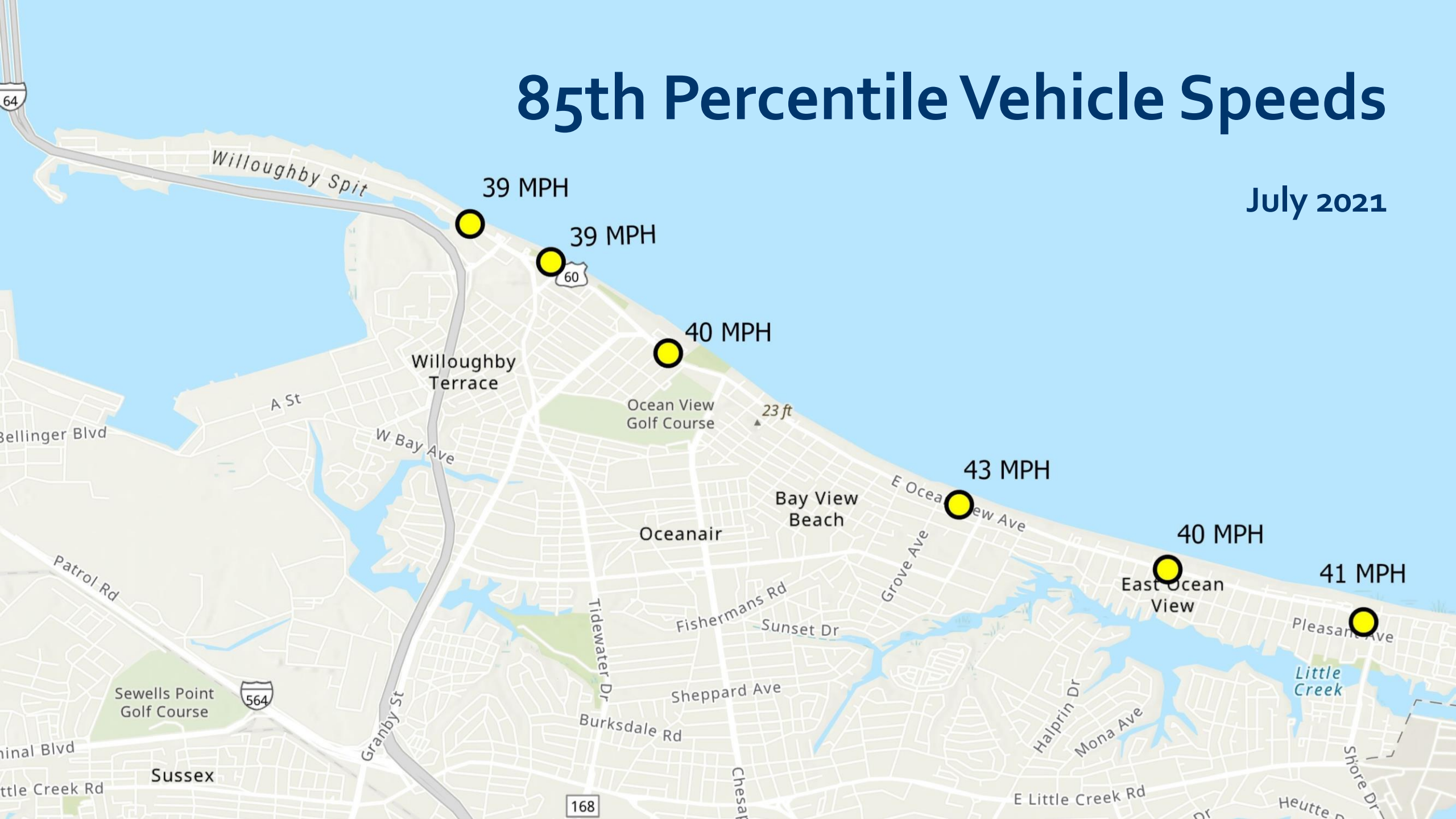
Average Vehicle Speeds

July 2021



85th Percentile Vehicle Speeds

July 2021



Traffic Operations Analysis

- Existing conditions (2021) analysis
- Typical weekday AM and PM peak hour conditions
- Traffic volumes collected in July 2021 were increased by **10%** to account for COVID-19 impacts
- Traffic analysis measures:
 - Average vehicle delay and associated level of service (LOS)
 - Corridor travel time

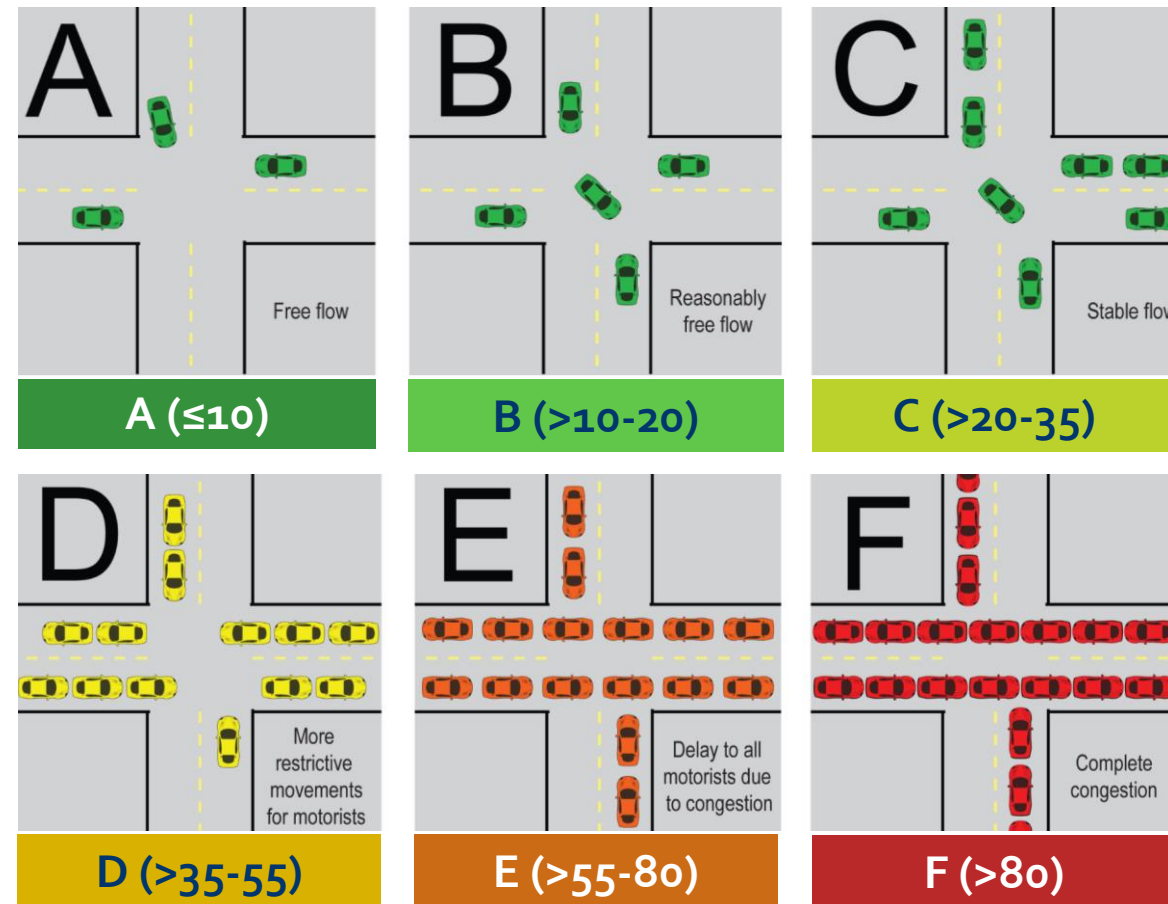
Traffic Analysis Measures

Level of Service (LOS)

The amount of traffic congestion and delay experienced by a driver at an intersection.

- Letter grade range A to F
 - LOS A – little to no congestion and delay
 - LOS F – severe congestion and long delay
 - LOS A – LOS D = Considered acceptable during peak hours for overall intersection
 - *Standard practice for urban areas*

Overall Signalized Intersection LOS Depiction



LOS (average delay in seconds per vehicle)

Existing (2021) Traffic Analysis Results

Intersection	Intersection Level of Service (Delay)	
	AM	PM
First View St & Ocean View Ave	A (7.7s)	B (15.4s)
Granby St & Ocean View Ave	B (10.3s)	B (19.0s)
Norfolk Ave & Ocean View Ave	A (0.2s)	A (0.5s)
Chesapeake Blvd and Ocean View Ave	A (9.5s)	C (26.2s)
Chesapeake St & Ocean View Ave	B (10.7s)	B (11.8s)
Sturgis St & Ocean View Ave	A (7.2s)	A (6.5s)
Grove Ave and Ocean View Ave	A (0.2s)	A (0.2s)
Cape View Ave and Ocean View Ave	B (11.2s)	B (16.7s)
Pleasant Ave and Shore Dr	B (16.5s)	B (15.0s)
Pretty Lake Ave and Shore Dr	B (10.8s)	B (11.9s)

Level of Service Grade
(average delay in seconds per vehicle)

A (≤ 10)
B ($>10-20$)
C ($>20-35$)
D ($>35-55$)
E ($>55-80$)
F (>80)

Existing Corridor Travel Times

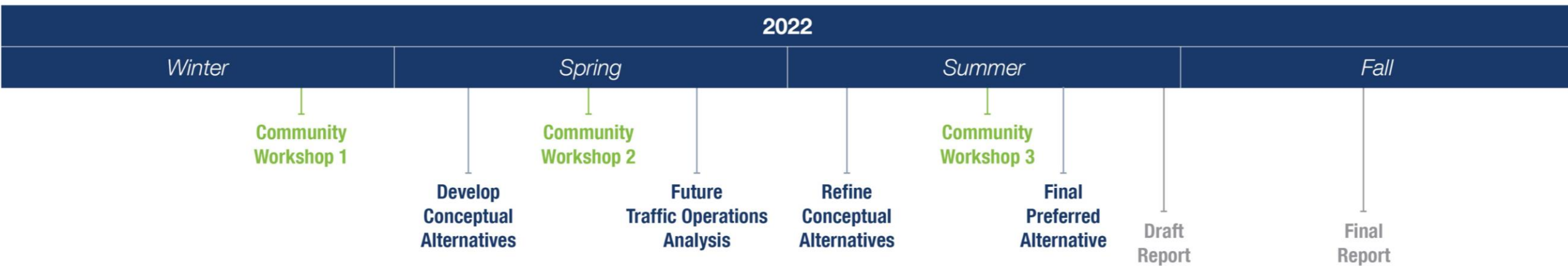
- First View Street to Pretty Lake Avenue

Peak Hour	Eastbound	Westbound
AM	9:00 mins	8:11 mins
PM	9:14 mins	8:34 mins



Project Timeline Overview

Project Timeline





BREAKOUT ROOMS

Contribute to Online Comment Map and Survey



Online Comment Map



Online Survey



Project Timeline and Next Steps

Project Timeline



Next Steps

- Review public comments and input from this workshop, the online survey, and online comment map
- Develop conceptual alternatives for assessment
 - Potential alternative typical sections along Ocean View Avenue
 - Potential alternative intersection crossings
- Conduct second community workshop to solicit feedback on each alternative



Input Opportunities

We Need Your Input!

- Breakout Rooms
- Online Community Survey
 - Deadline April 3, 2022
- Interactive Comment Map
 - Deadline April 3, 2022
- Online Comment Form

Project webpage:
www.norfolk.gov/oceanviewstudy



Contribute to Online Comment Map and Survey



Online Comment Map



Online Survey



Q&A and Closing Remarks

THANK YOU!