

# Salem Neighborhood Traffic Calming Update

Traffic & Parking Commission Meeting  
Jan 10, 2024



neighborwaysdesign

# Outline

- 2023 Program Evaluation
  - Raymond Road
  - Proctor Street
  - Federal Street
  - Mall Street
  - Chestnut Street
  - Columbus Ave
  - Cedar + Fairfield Streets
- Next Steps + 2024 Program



# 2023 Neighborhood Traffic Calming Program

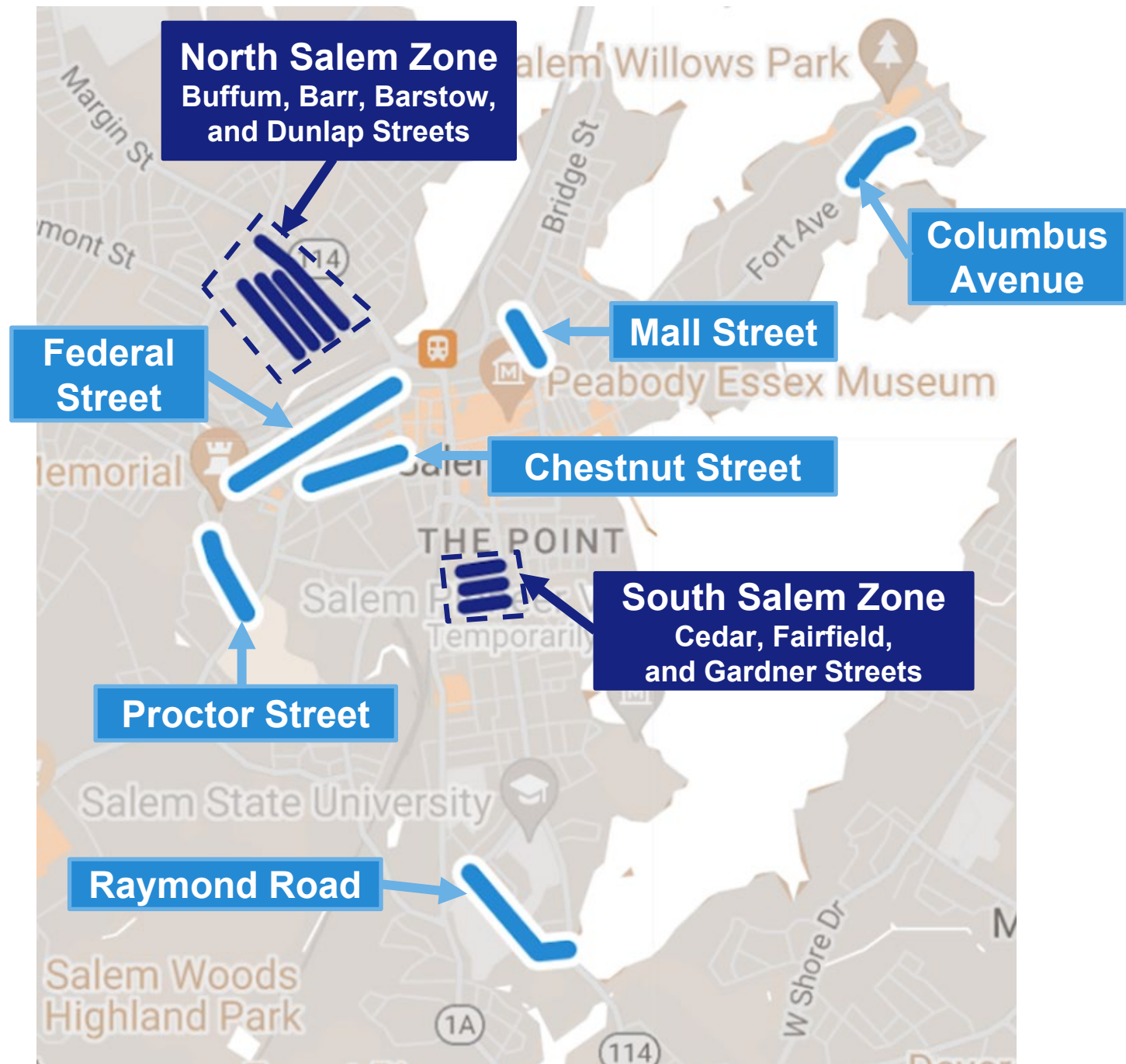
-  Pilot Installations
-  Permanent Installations

## 2023 Pilots

- Raymond Road
- Proctor Street
- Federal Street
- Mall Street
- Chestnut Street
- Columbus Ave

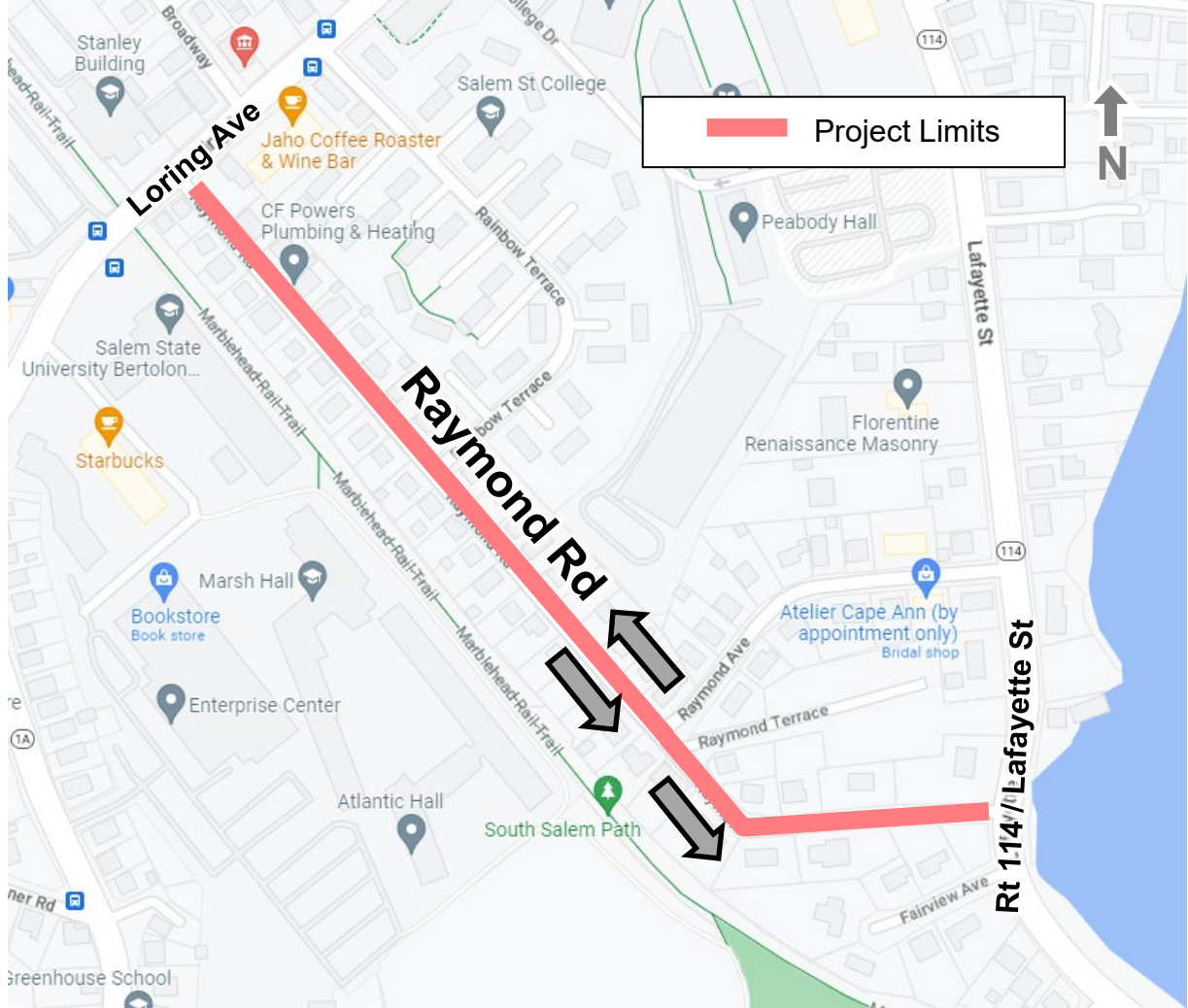
## 2023 Permanent Installations

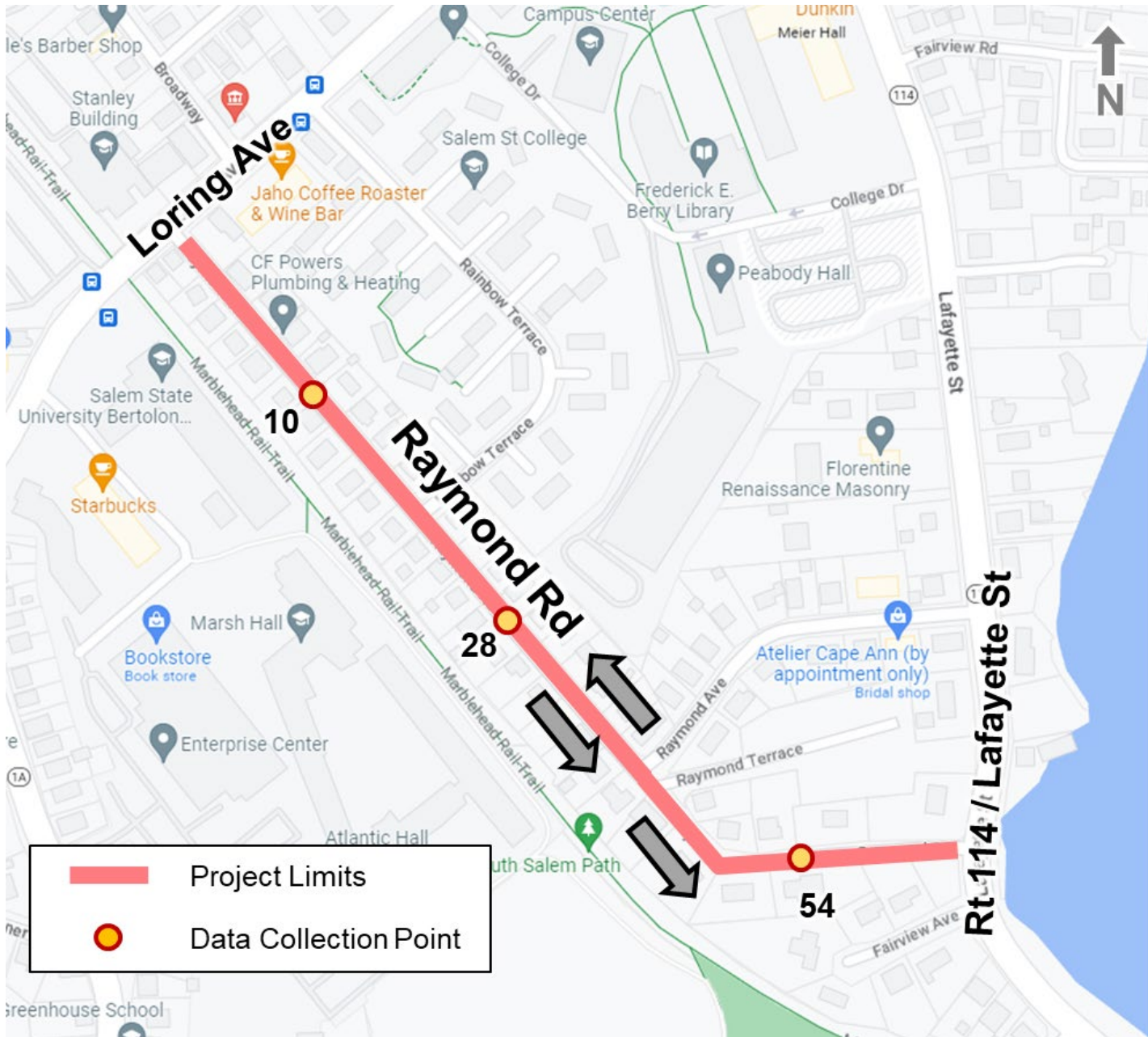
- Cedar Street
- Fairfield Street
- *Gardner Street\* pending utility work*



**Raymond Road**

# Raymond Road





# Raymond Road Data Collection

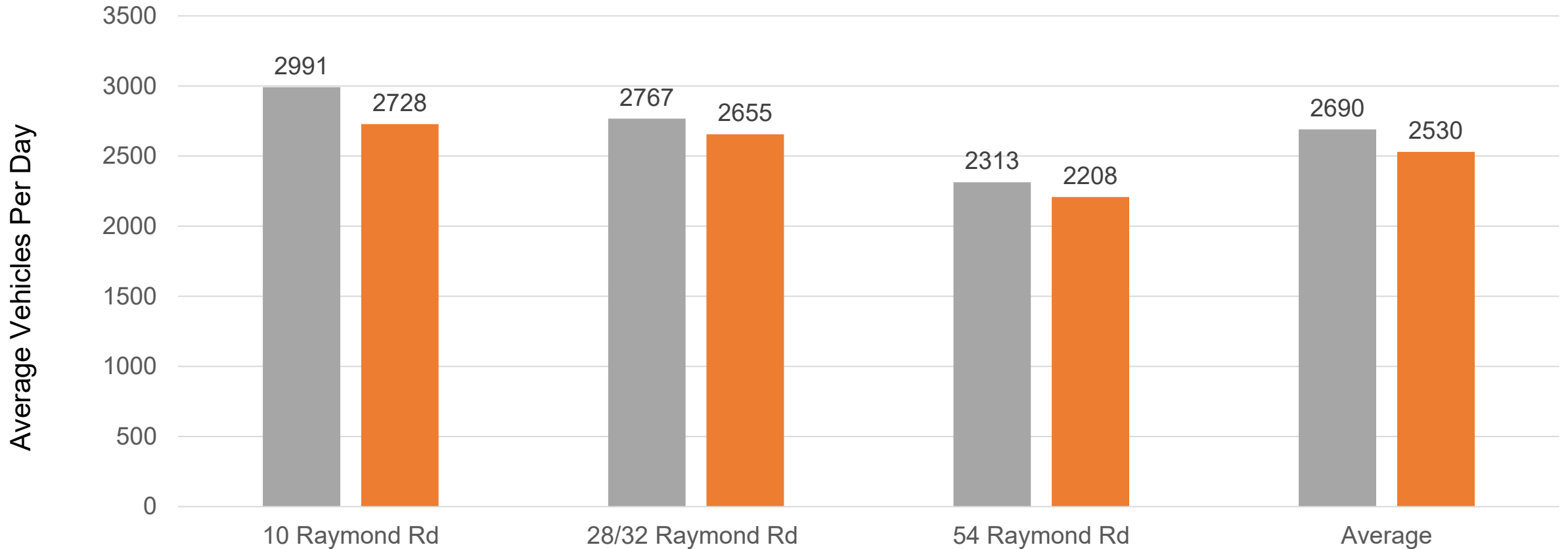
# Raymond Road Traffic Volume Analysis



**Mar '23**  
No Calming

**Oct '23**  
Pilot Speed Humps

## Average Daily Traffic (ADT)



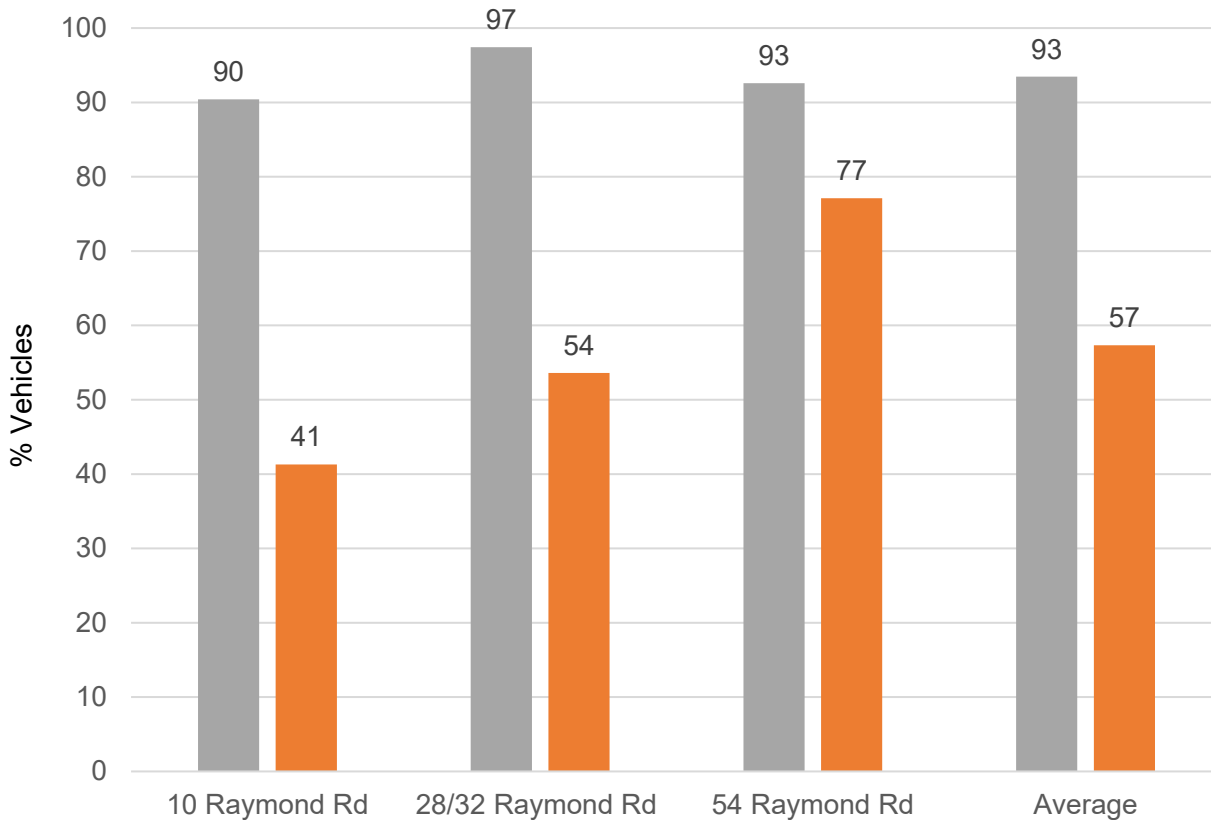
# Raymond Road Speed Analysis



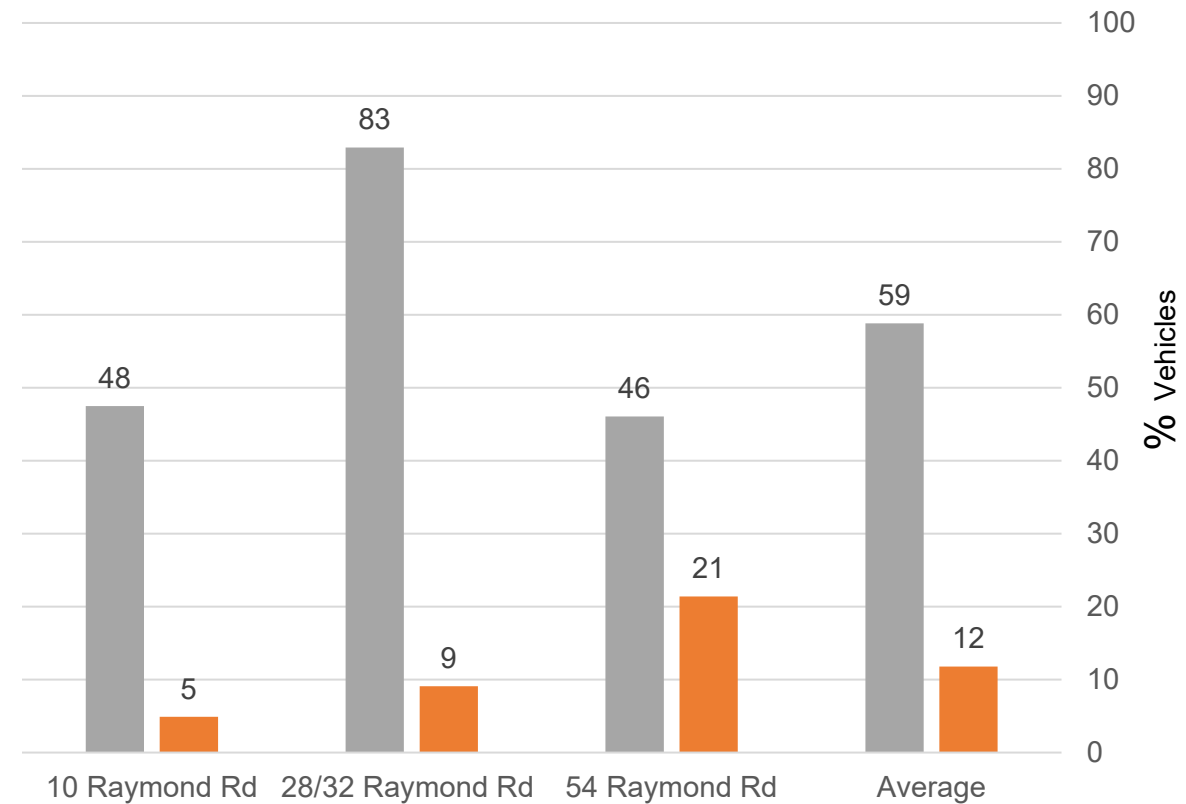
**Mar '23**  
No Calming

**Oct '23**  
Pilot Speed Humps

## % Vehicles Over 20mph



## % Vehicles Over 25mph





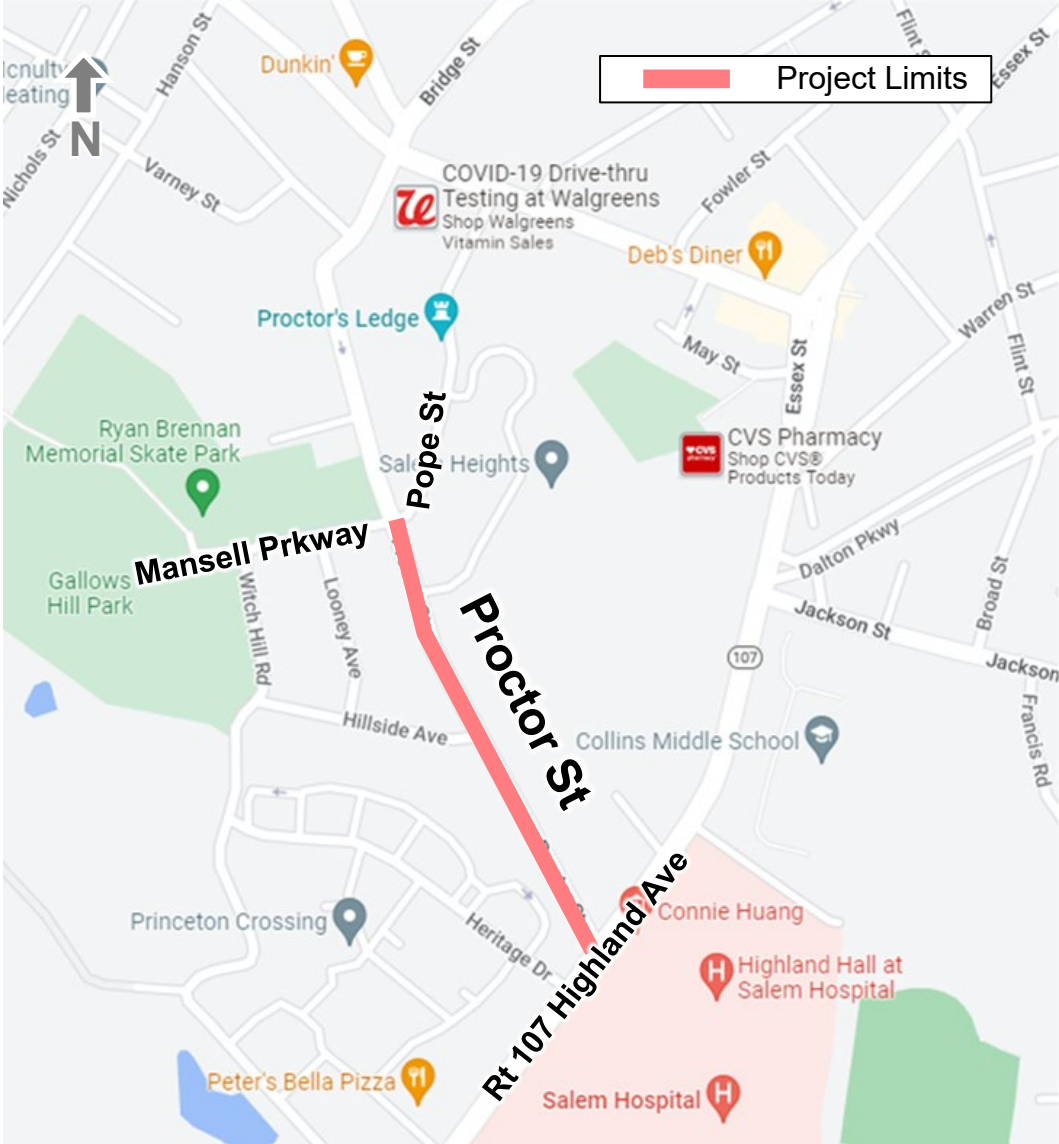
# Raymond Road Evaluation Summary

- **During Pilot Temporary Speed Humps:**
  - % people speeding over 25mph reduced from **59% to 12%**
  - Average Speed = **21mph**
  - 85th % Speed = **24mph**
- **Raymond Road traffic decreased by 6%** from Mar '23 to Oct '23 (2690 to 2530 ADT).



**Proctor Street**

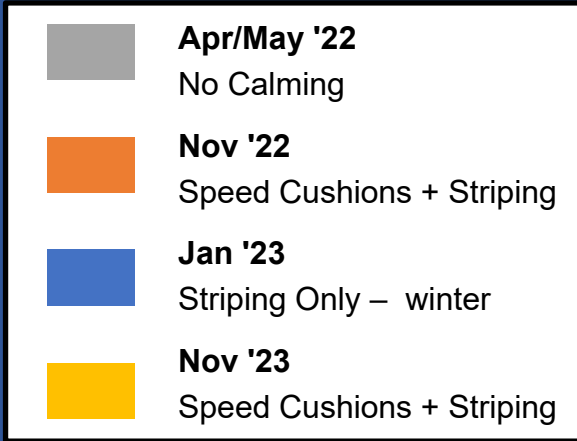
# Proctor Street



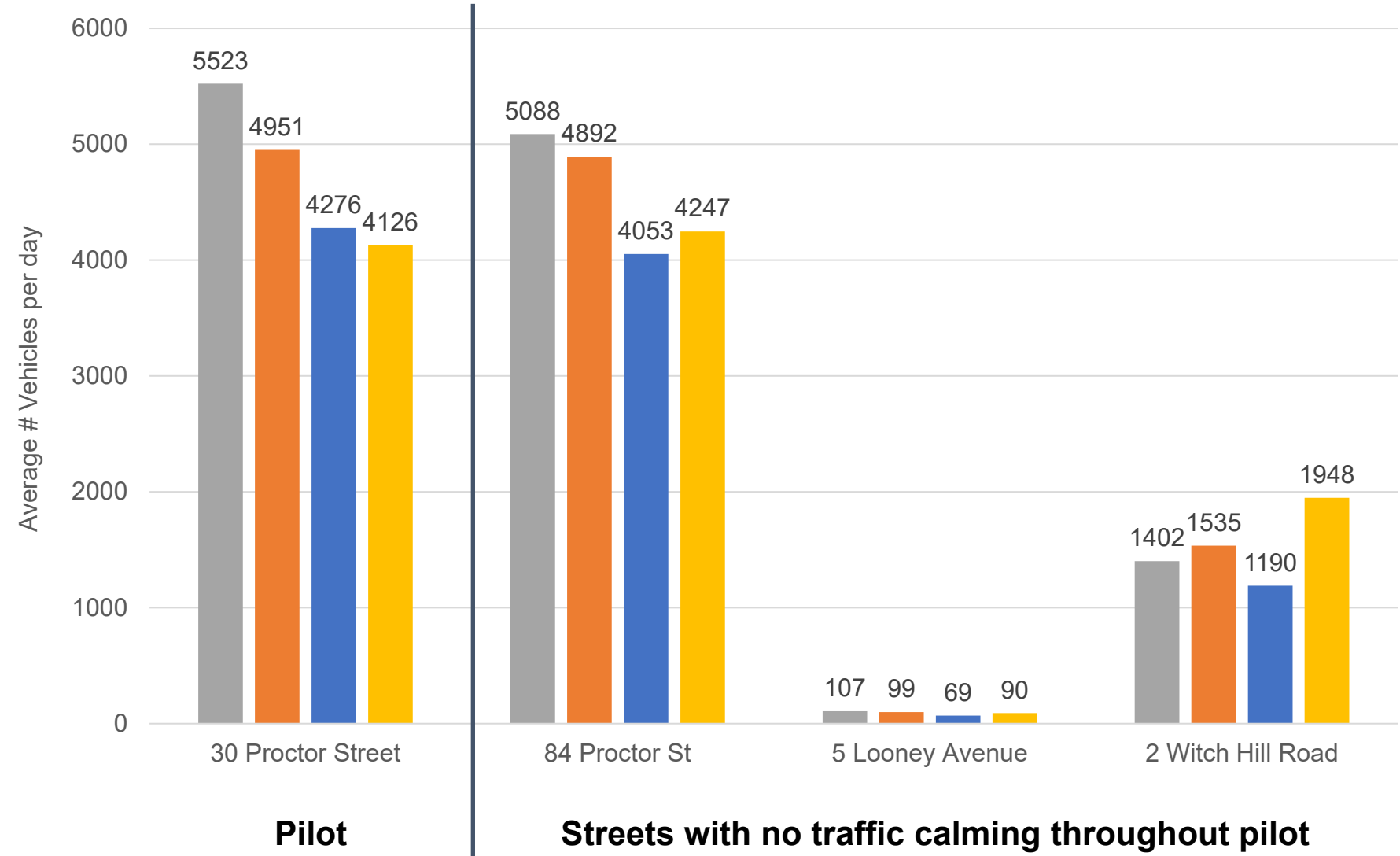


# Proctor Neighborhood Data Collection

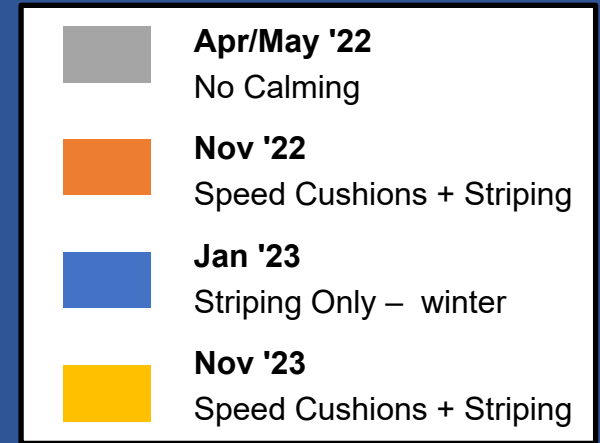
# Proctor Street ADT Analysis



## Average Daily Traffic (ADT)

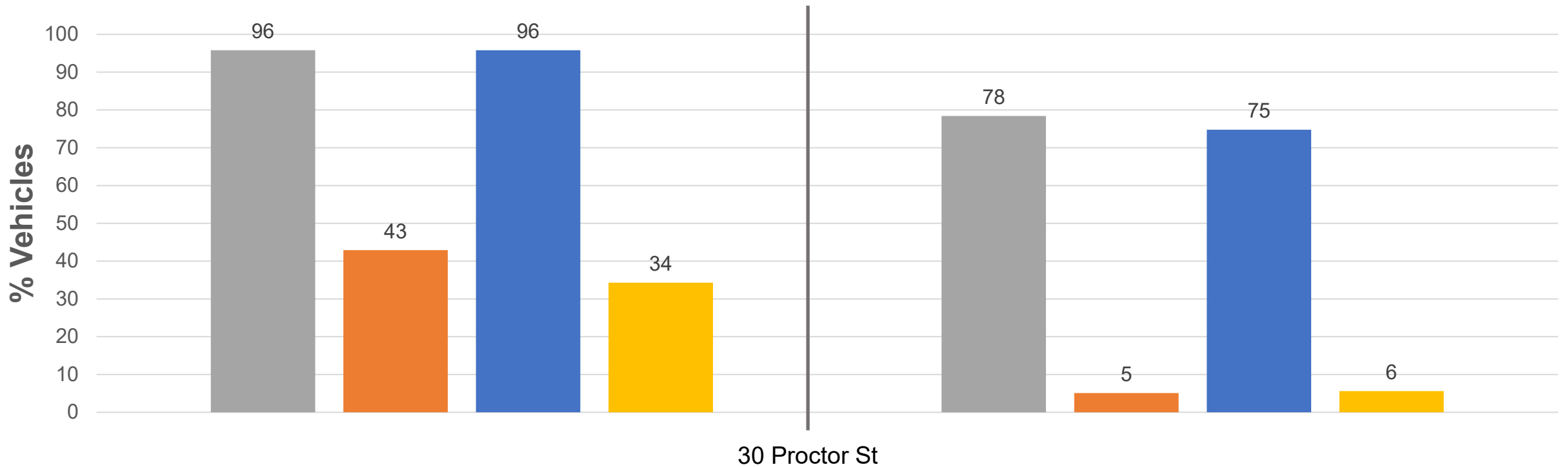


# Proctor Street Speed Analysis



**% Vehicles Over 20mph**

**% Vehicles Over 25mph**



# Proctor Evaluation Summary

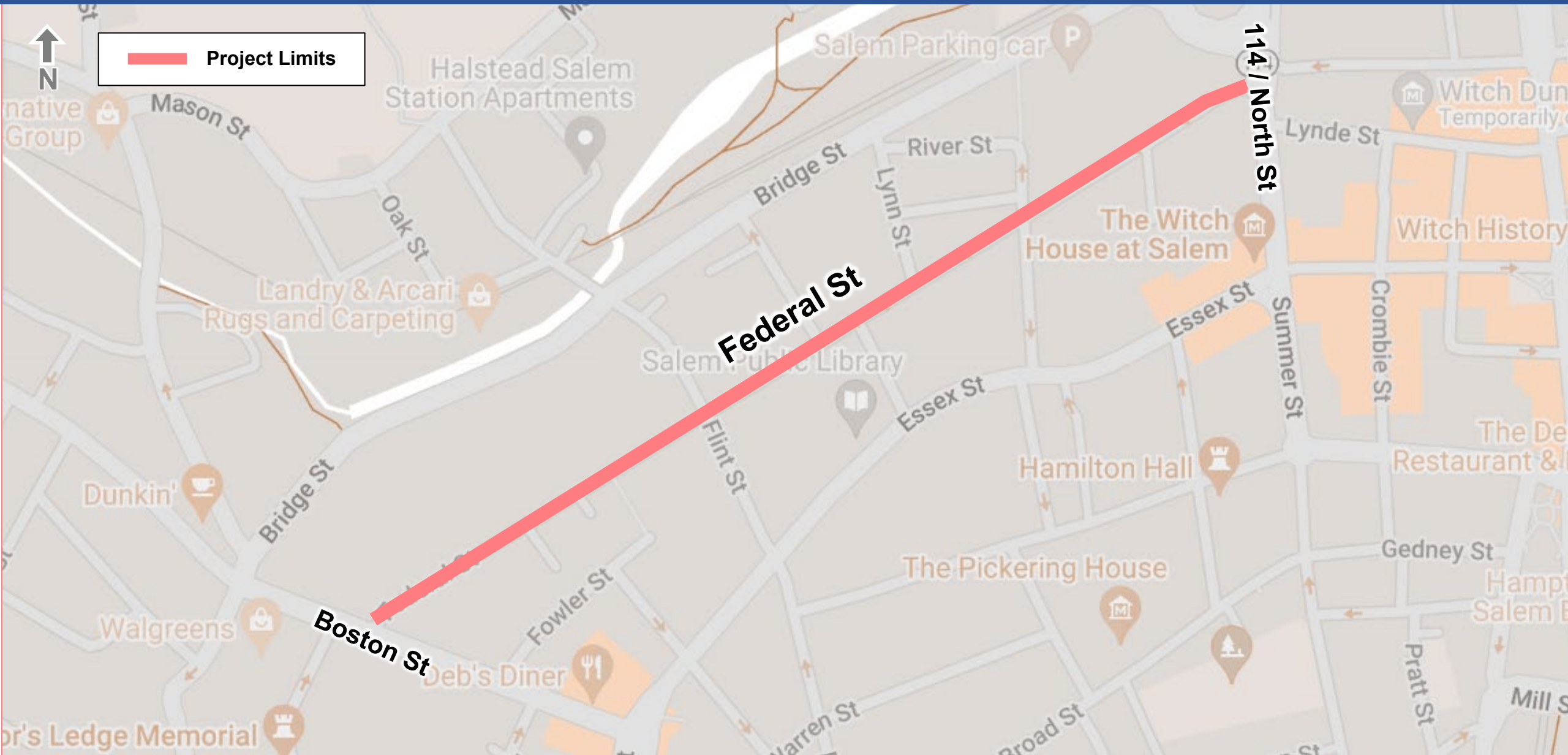
- **During Pilot** temporary speed cushions, paint + flexposts:
  - % people speeding over 25mph reduced from **78% to 5%**
  - Average Speed = **23mph**
  - 85th % Speed = **26mph**
- **From Nov '22 to Nov '23**
  - Proctor Street traffic **decreased 17%** (4951 to 4126 ADT)
  - Witch Hill Road traffic **increased by 27%** (1535 to 1948 ADT)



**Federal Street**



# Federal St from North St to Boston St (0.55 mi)



# Federal Street

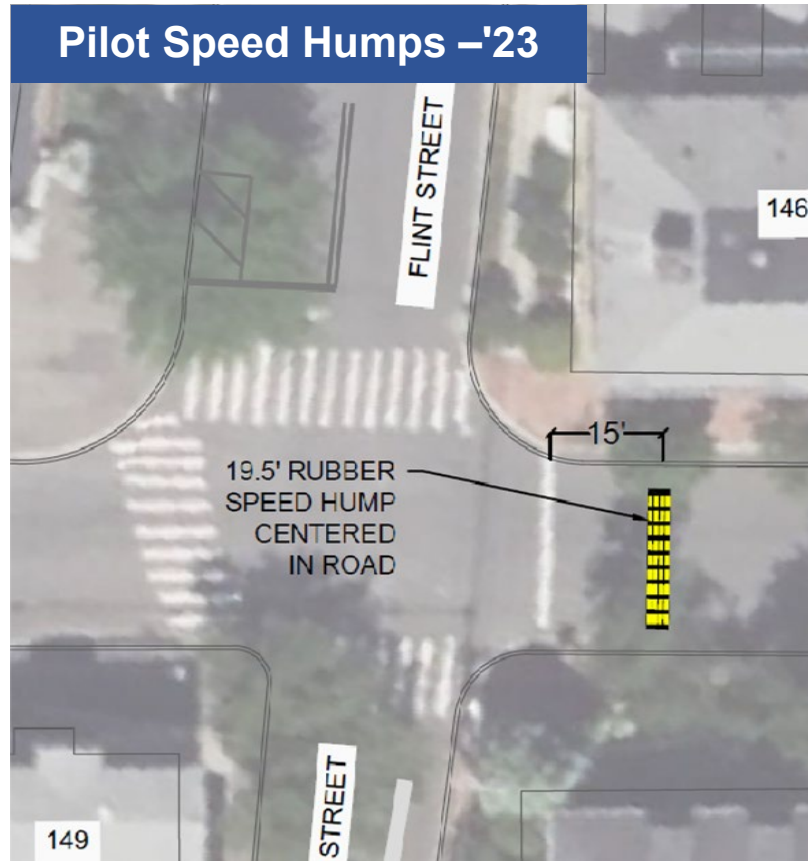
No Calming – '21



Pilot Speed Humps – '22



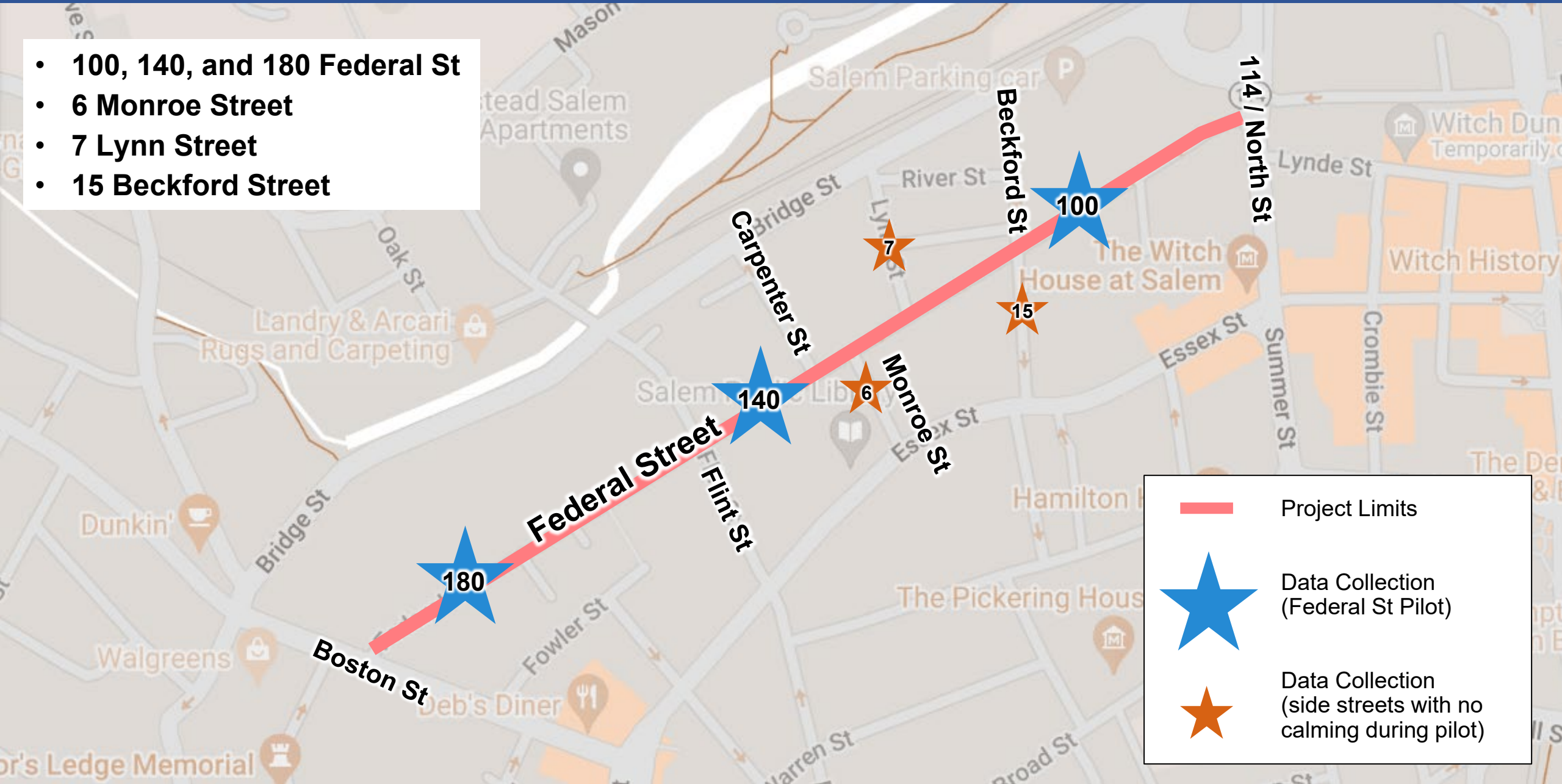
Pilot Speed Humps – '23






- Extended humps across road
- Relocated some speed humps closer to stop signs

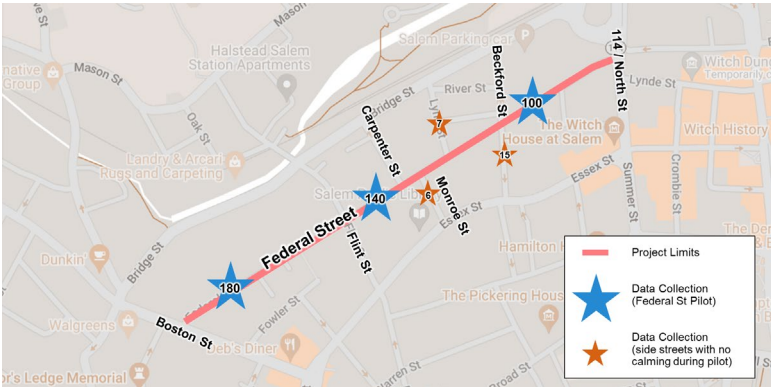
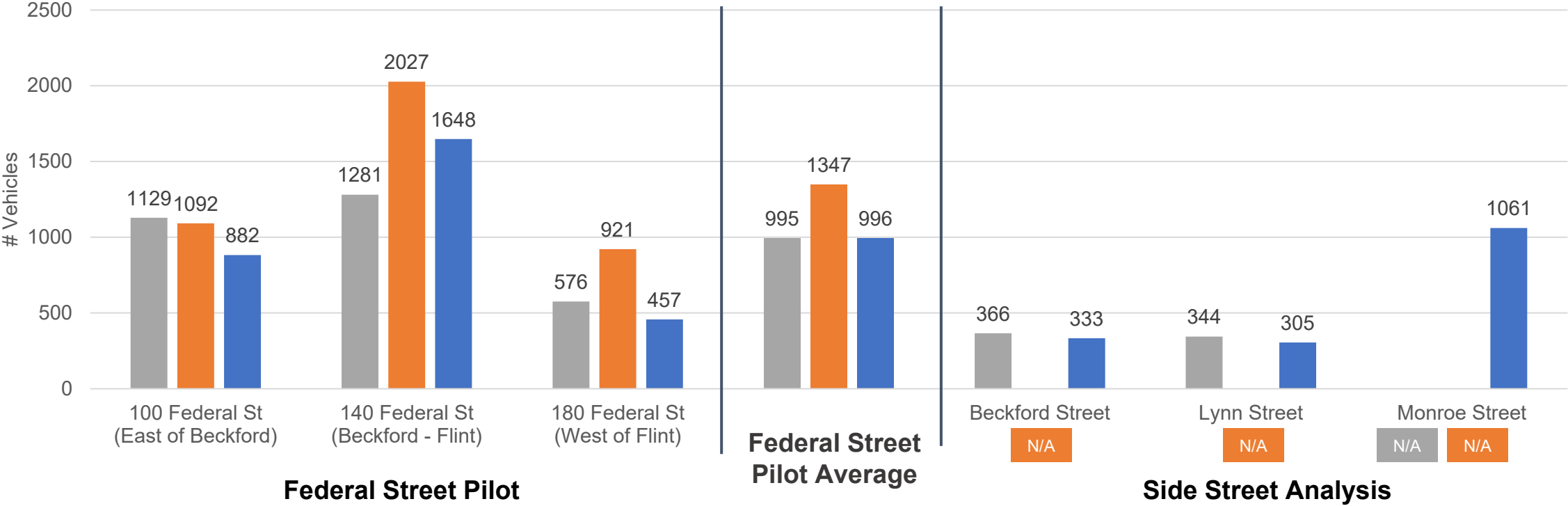
# Federal St Data Collection

- 100, 140, and 180 Federal St
- 6 Monroe Street
- 7 Lynn Street
- 15 Beckford Street



	Project Limits
	Data Collection (Federal St Pilot)
	Data Collection (side streets with no calming during pilot)

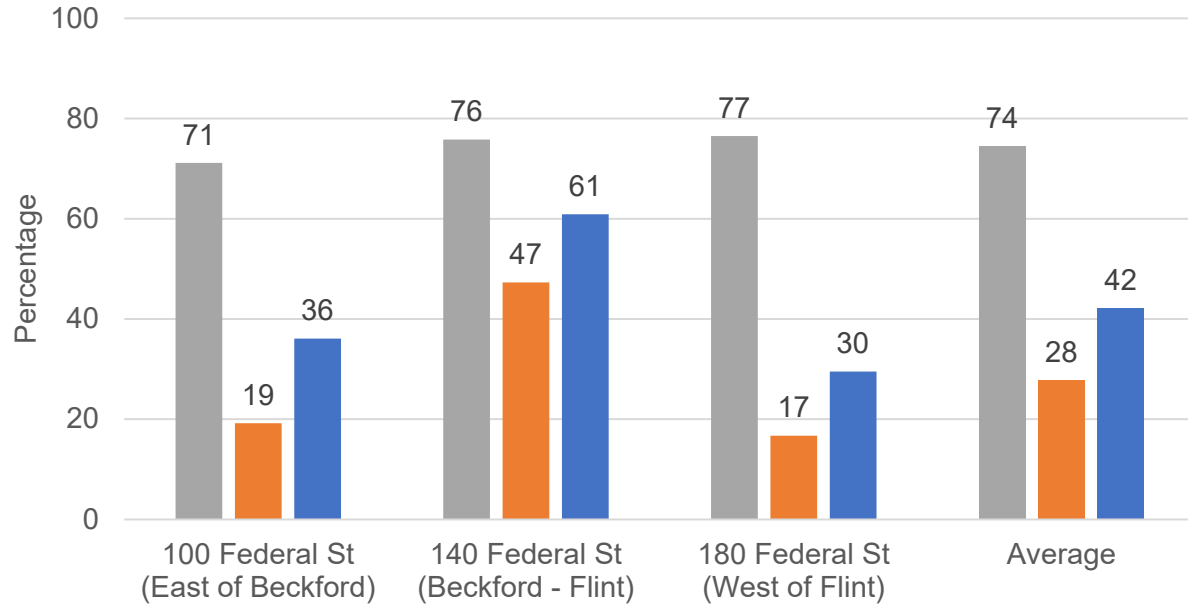
# Federal Street ADT Analysis



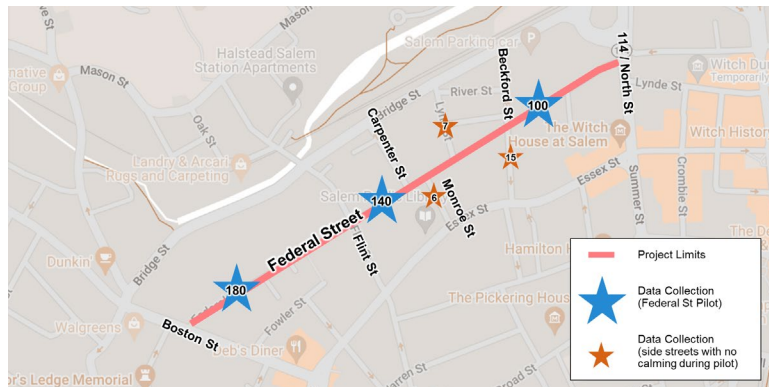
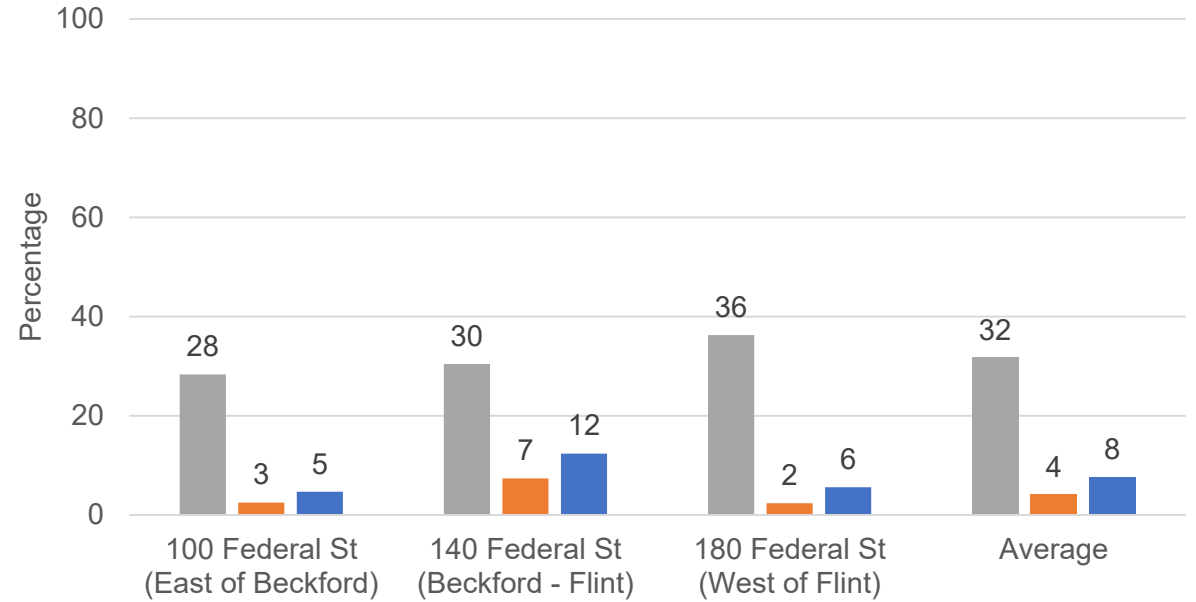
- June '21 + '22**  
No Calming
- Oct '22**  
Pilot Speed Humps 1.0
- Nov '23**  
Pilot Speed Humps 2.0

# Federal Street Speed Data

## % Vehicles Over 20mph



## % Vehicles Over 25mph



- June '21 + '22**  
No Calming
- Oct '22**  
Pilot Speed Humps 1.0
- Nov '23**  
Pilot Speed Humps 2.0

# Federal Street Evaluation Summary

- **Nov '23 Pilot with temporary humps:**
  - Average Speed = **20mph**
  - 85th % Speed = **23mph**
- **'23 Pilot was less successful at slowing speeds:**
  - Oct '22 = 28% speeding
  - Nov '23 = 42% speeding
- Currently working on **longer-term design for Federal / Beckford / Andover** raised intersection
  - Consider impacts on permanent speed hump locations



**Mall Street**

# Mall Street





# Mall Street Pilot

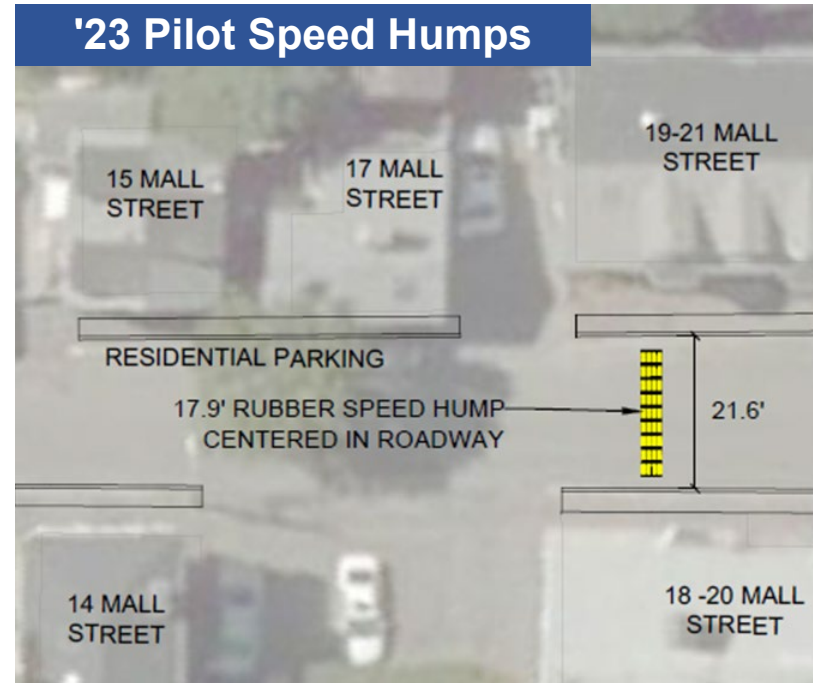
'21 No Calming



'22 Pilot Cushions



'23 Pilot Speed Humps

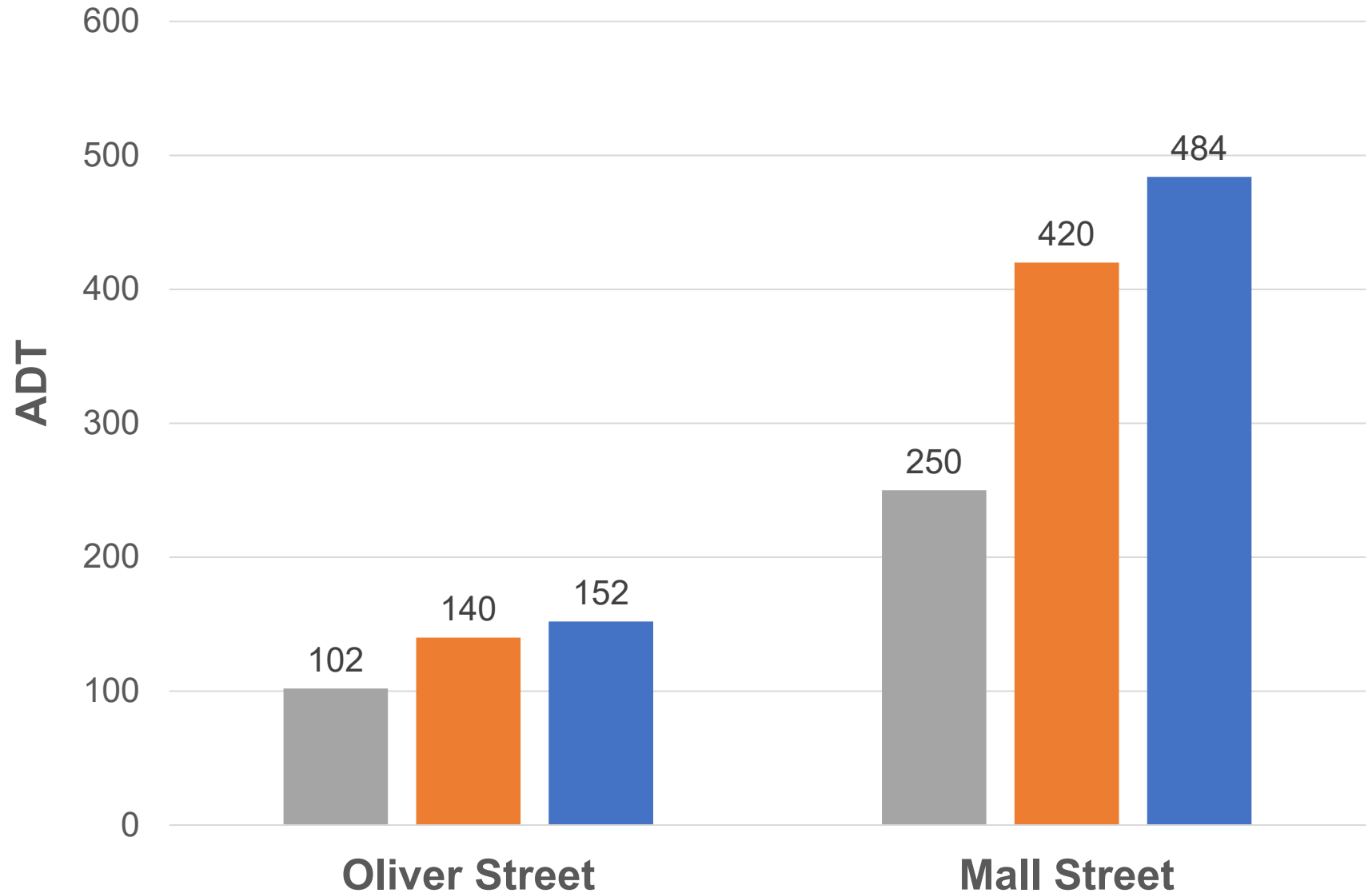
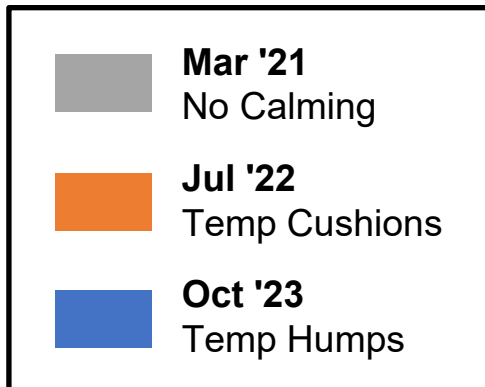
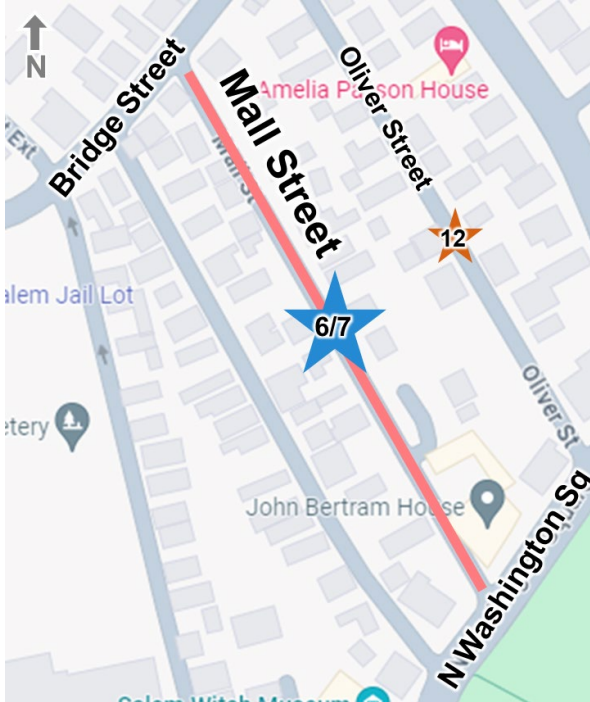


- '23 piloted speed humps vs '22 speed cushions
- Locations adjustments

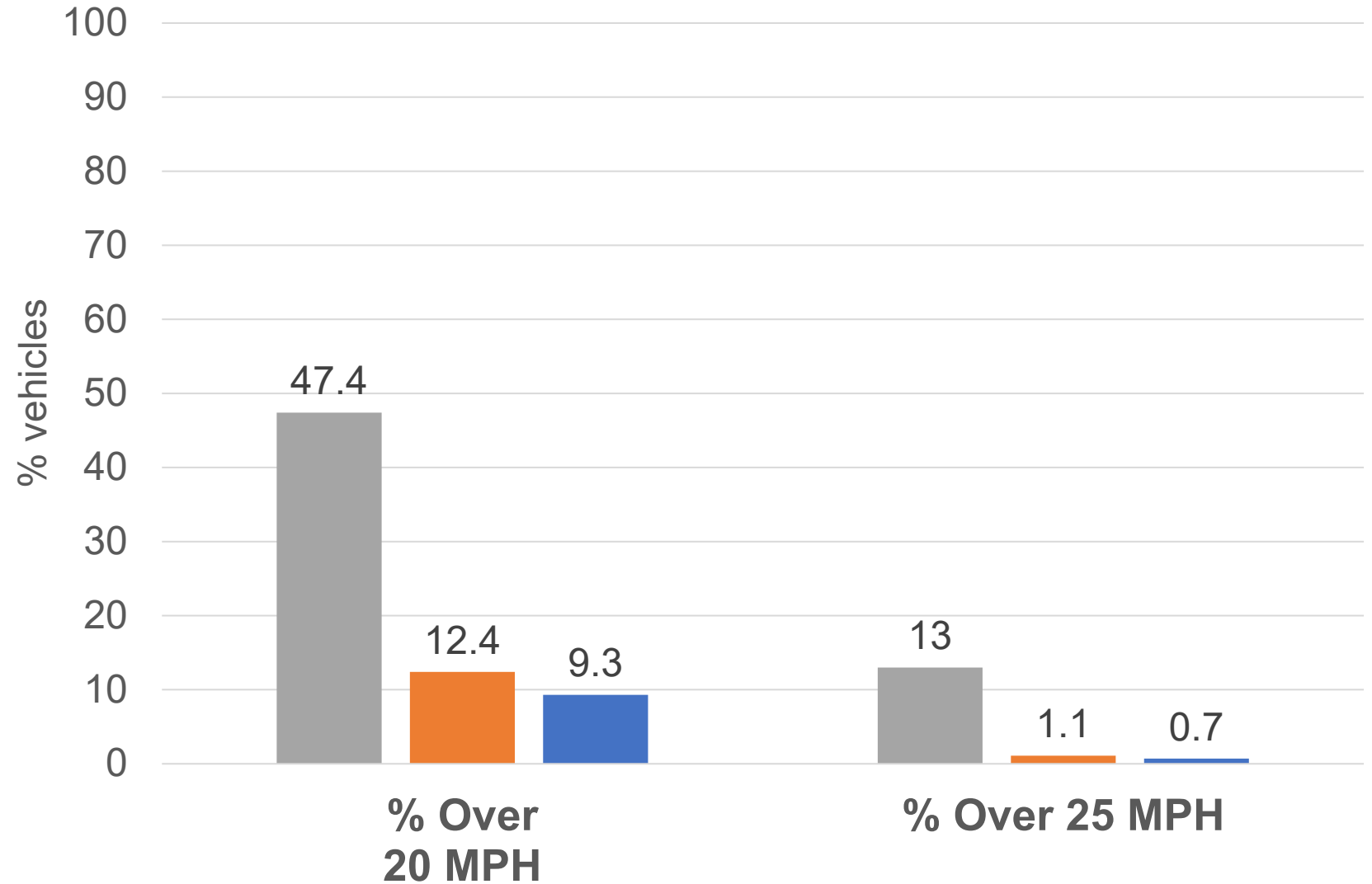
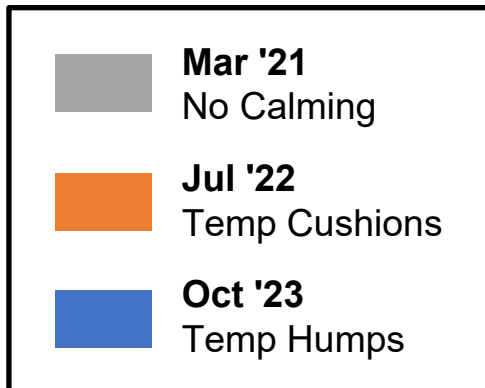
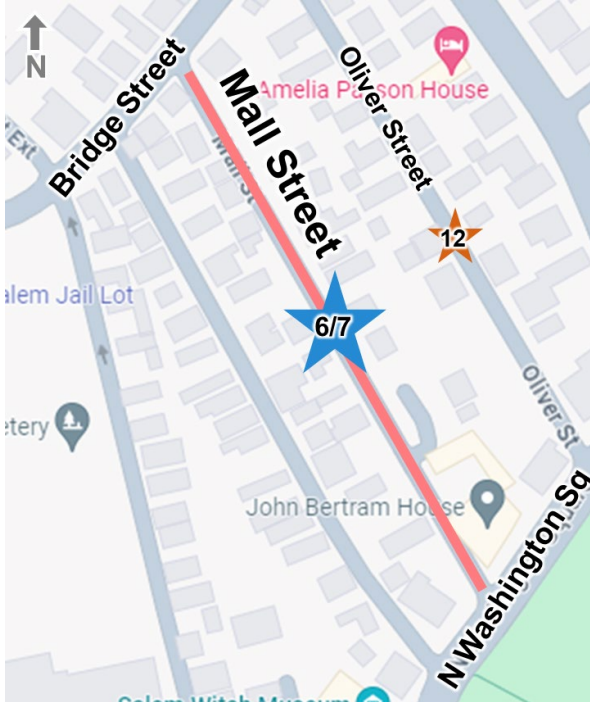
# Mall Street Data Collection



# Mall Street ADT Analysis

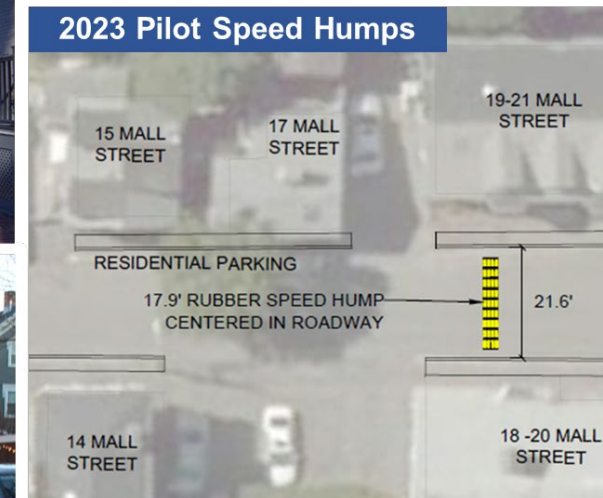
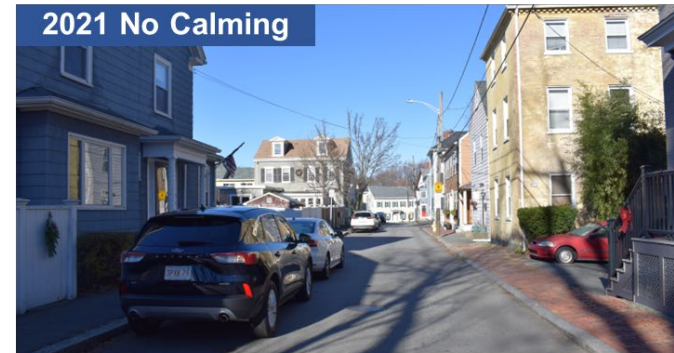


# Mall Street Speed Analysis



# Mall Street Evaluation Summary

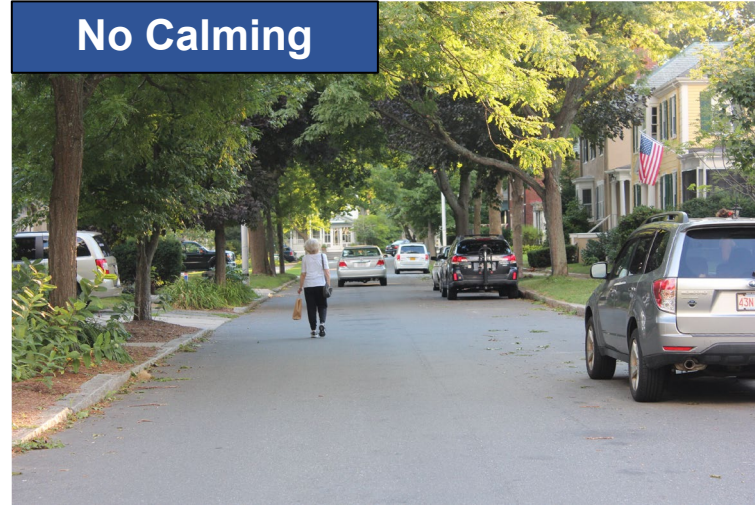
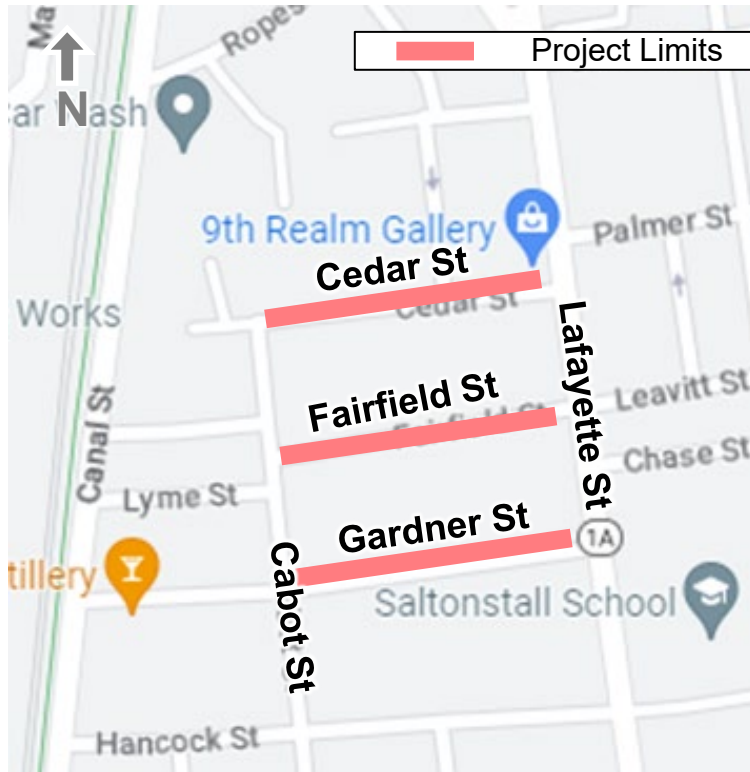
- **'23 Pilot with temporary humps:**
  - Average Speed = **16mph**
  - 85th % Speed = **19mph**
- **% people speeding over 20mph**
  - Mar '21 No Calming = **47%**
  - July '22 Speed Cushions = **12%**
  - Oct '23 Speed Humps = **9%**
- **Speed humps slightly more effective** at slowing speeds vs speed cushions.

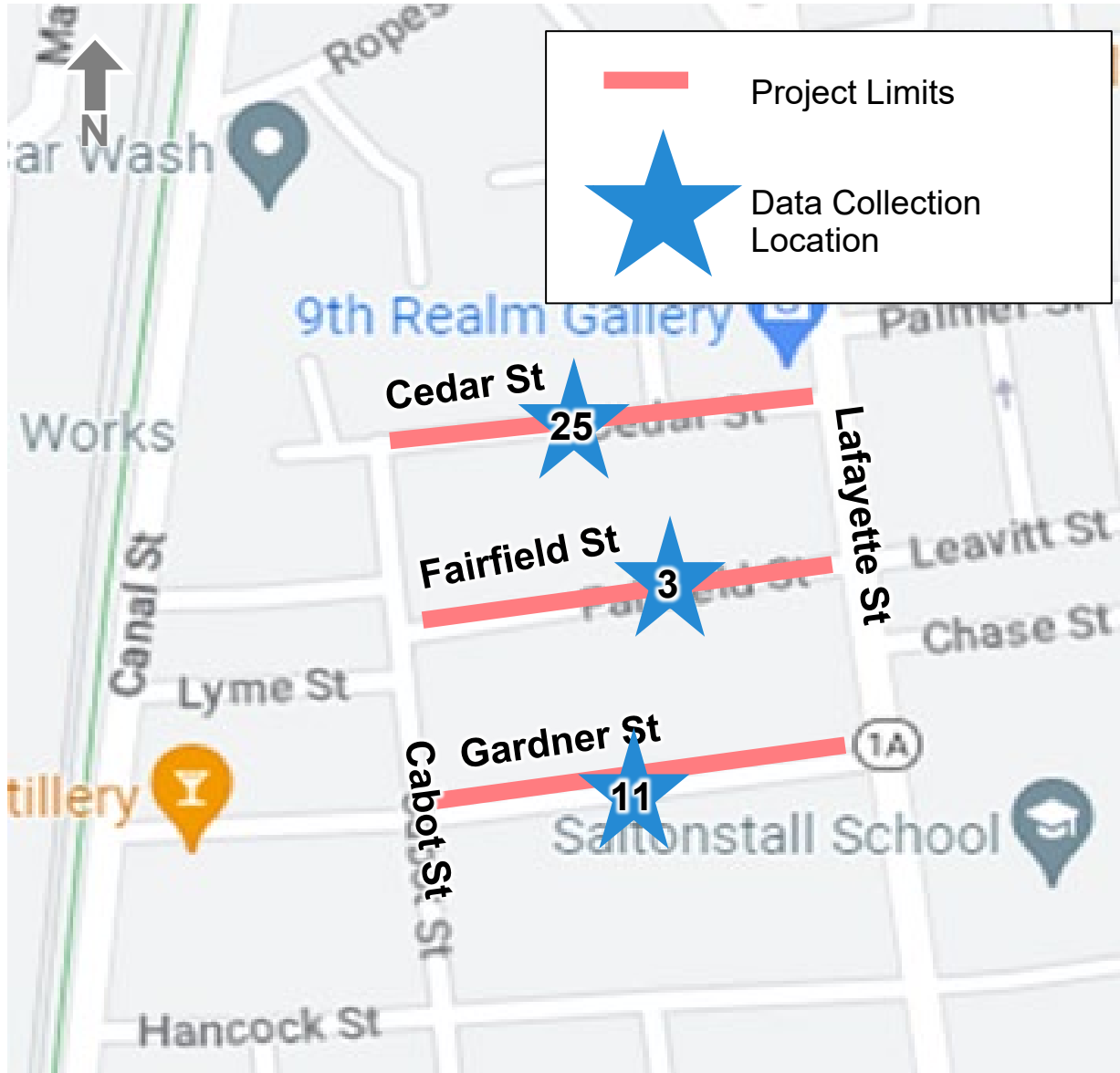


# South Salem

Cedar, Fairfield, + Gardner Streets

# South Salem Zone Cedar Fairfield Gardner Streets

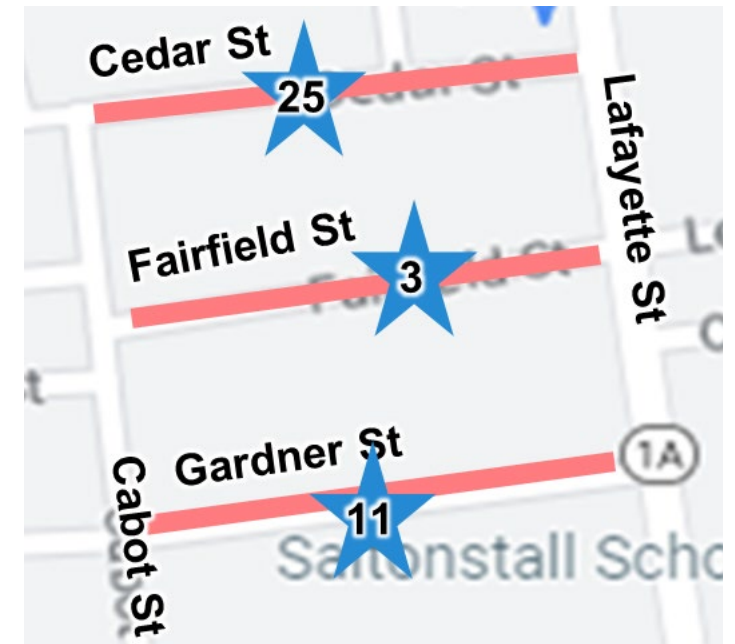
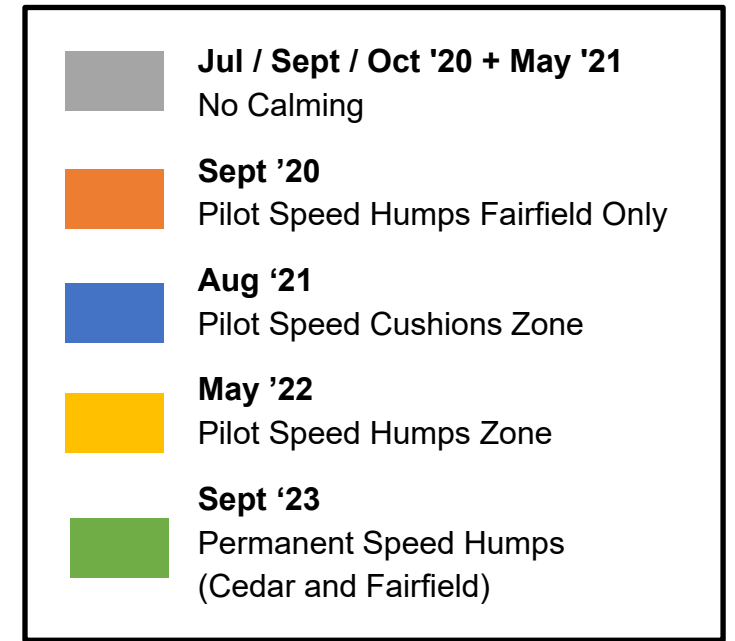
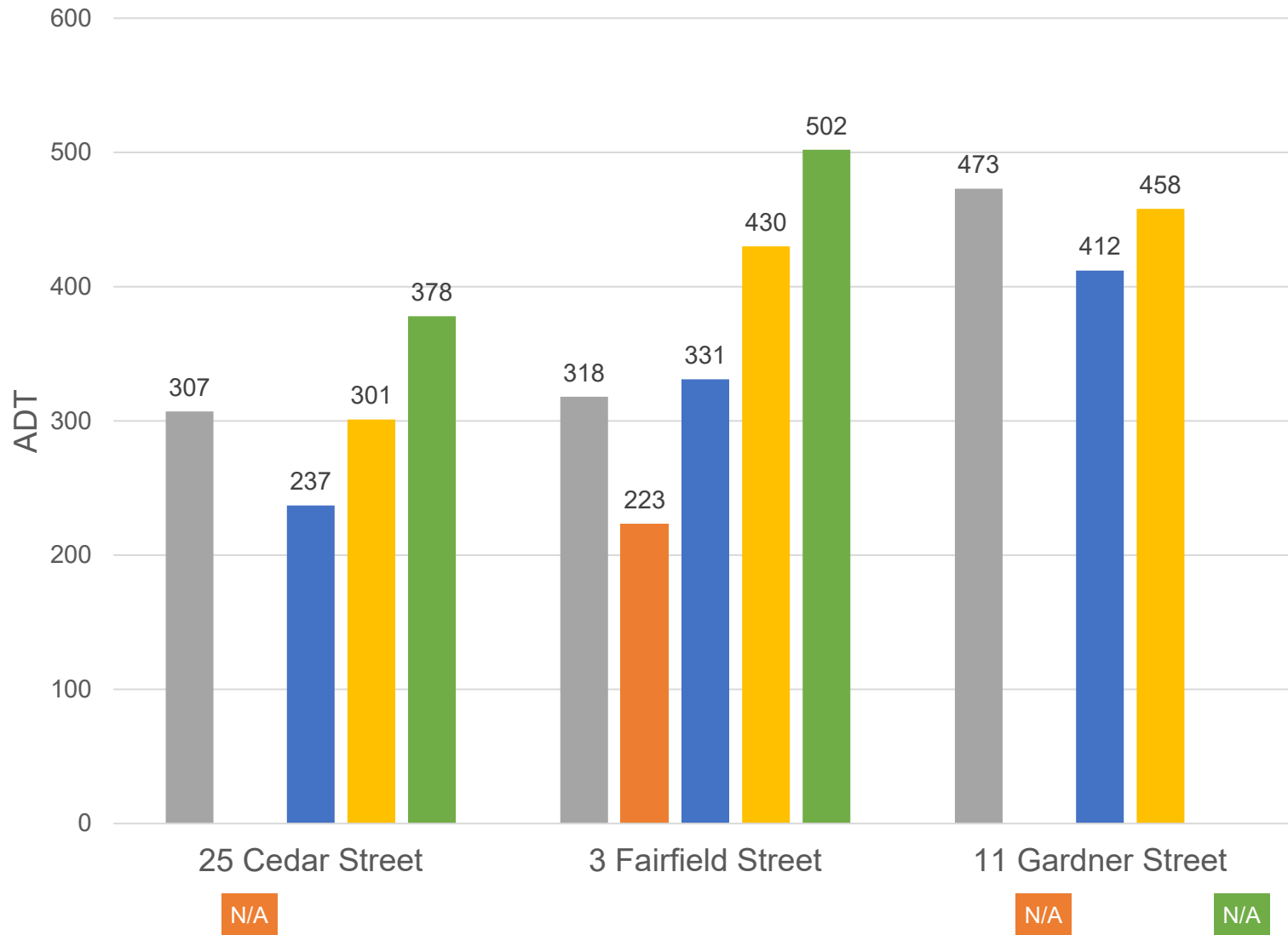









# South Salem Zone Data Collection



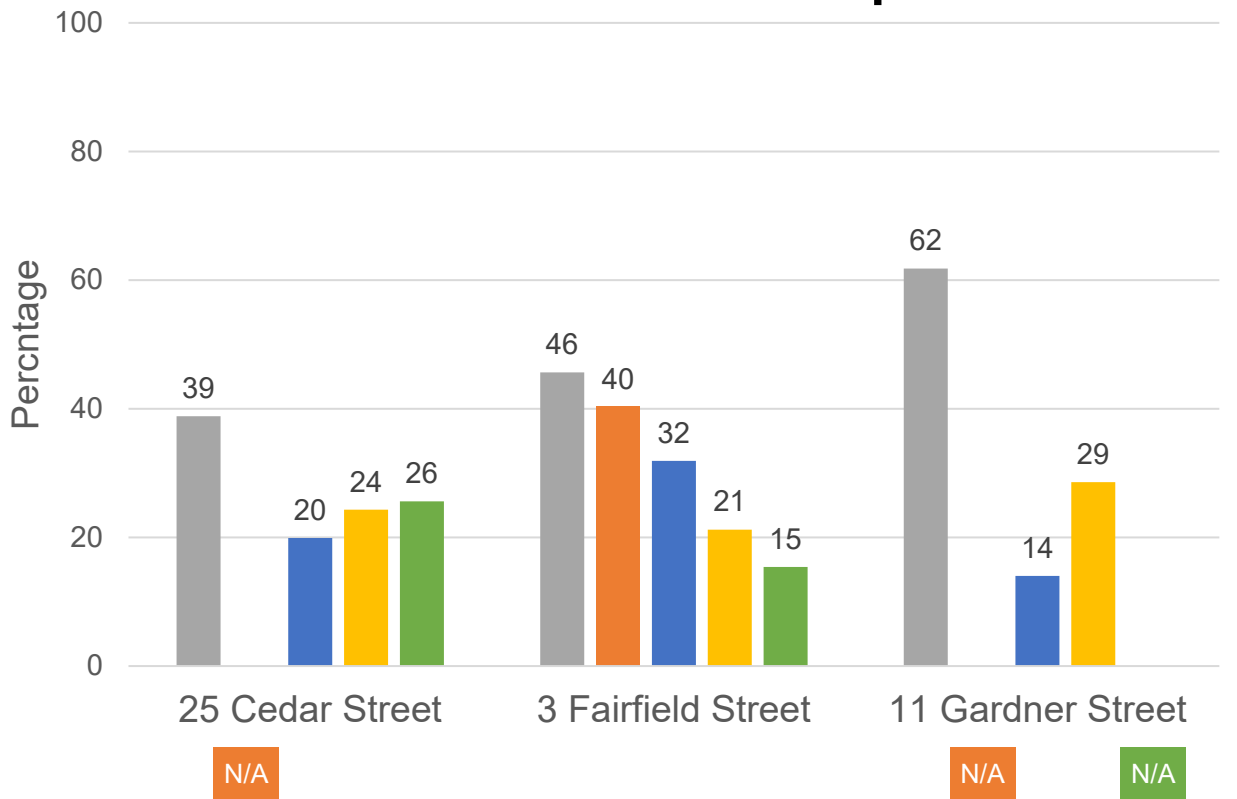
# South Salem ADT Analysis



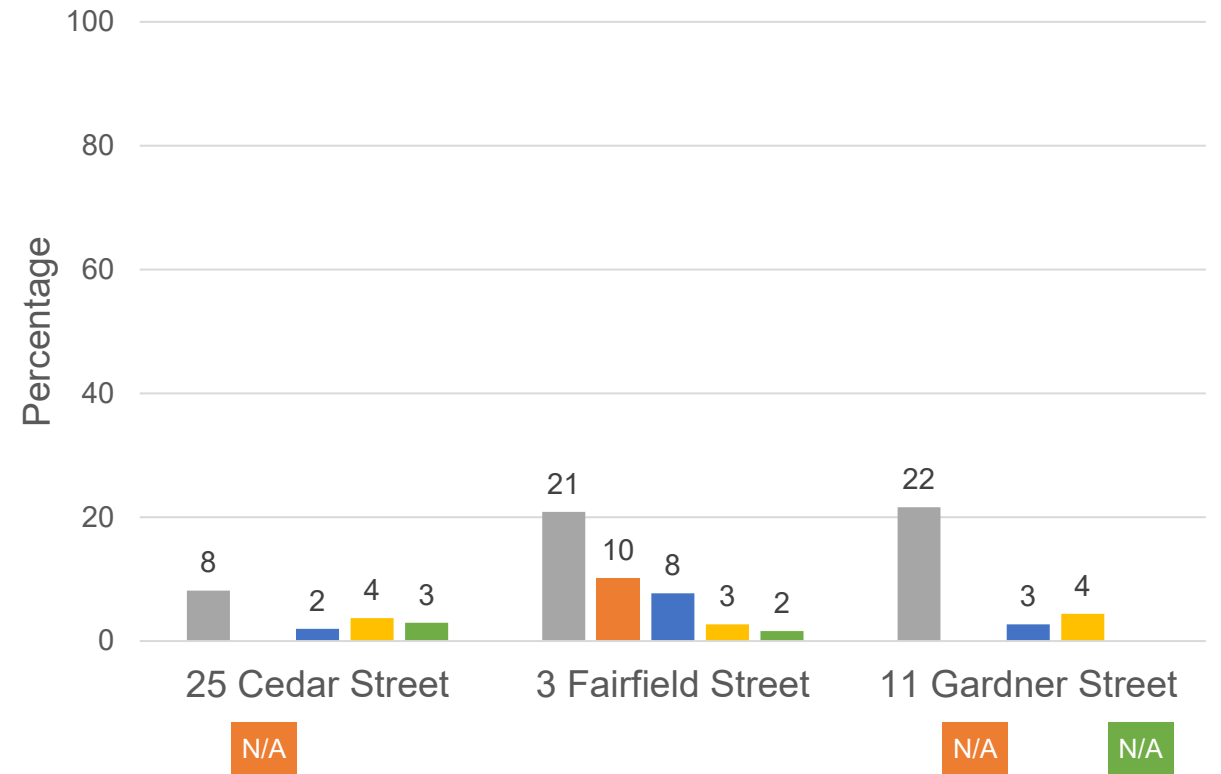
# South Salem Speed Analysis

	<b>Jul / Sept / Oct '20 + May '21</b> No Calming		<b>May '22</b> Pilot Speed Humps Zone
	<b>Sept '20</b> Pilot Speed Humps Fairfield Only		<b>Sept '23</b> Permanent Speed Humps (Cedar and Fairfield)
	<b>Aug '21</b> Pilot Speed Cushions Zone		

### % Vehicles Over 20mph



### % Vehicles Over 25mph



# South Salem Evaluation Summary

- **Nov '23 Permanent Speed humps:**
  - Average Speed = **19mph**
  - 85th % Speed = **21mph**
- **% people speeding over 20mph average in zone:**
  - 20/'21 No Calming = 49%
  - Aug '21 Pilot Speed Cushions = 22%
  - May '22 Pilot Speed Humps = 25%
  - Sept '23 Permanent Speed Humps = 21%
- **Average traffic increased by 21% on Cedar and Fairfield** from May '22 to Sept '23 (366 to 440 ADT)
- **Note permanent humps to be installed on Gardner in '24**

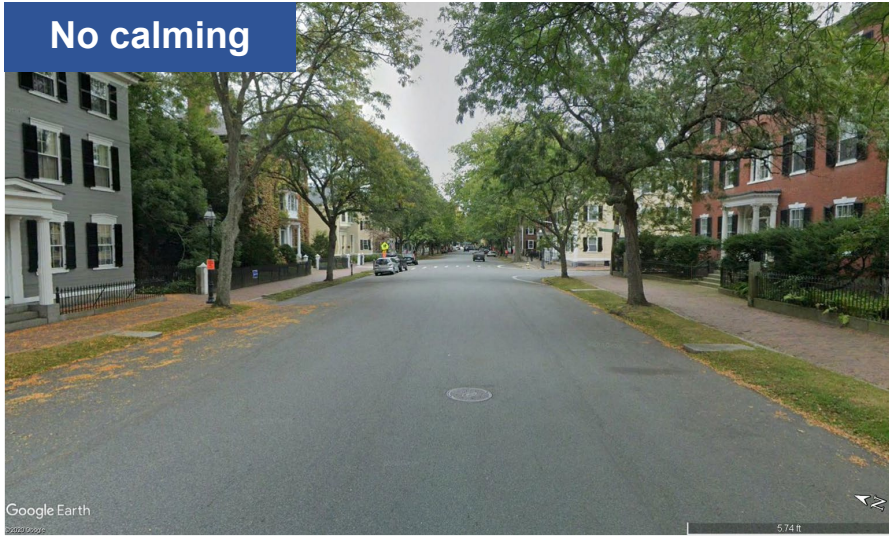


**Chestnut Street**

# Chestnut Street

## Flint St to North St

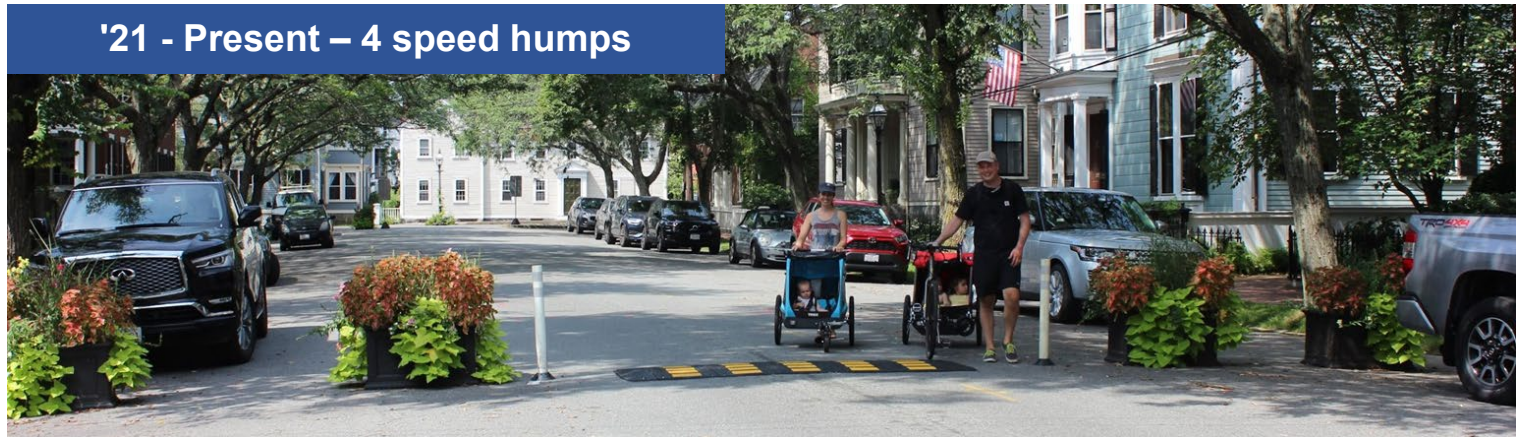
No calming



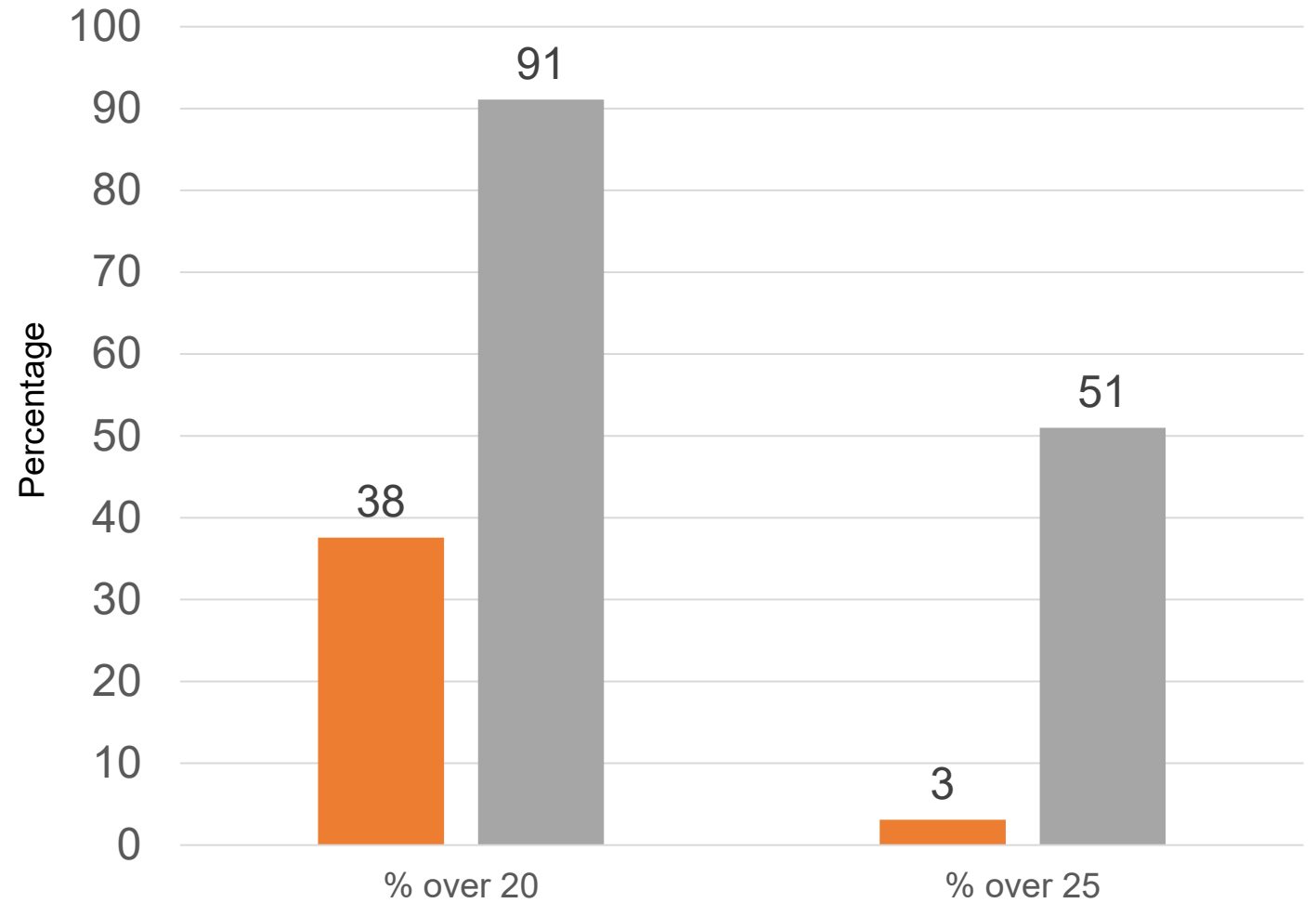
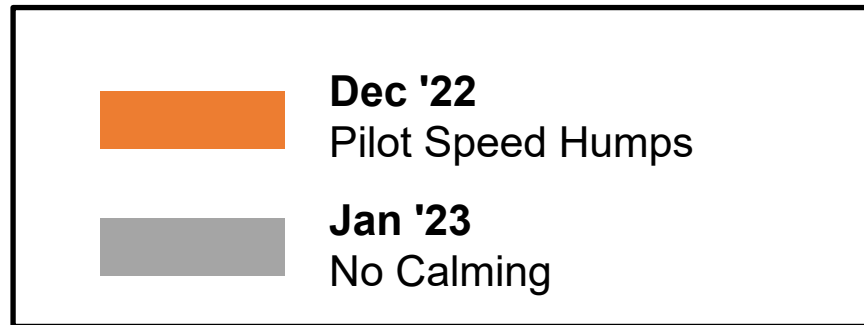
'20 Pilot – 3 speed humps



'21 - Present – 4 speed humps



# Chestnut Street Speed Data



27 Chestnut Street Speed Data

# Chestnut Street Evaluation Summary

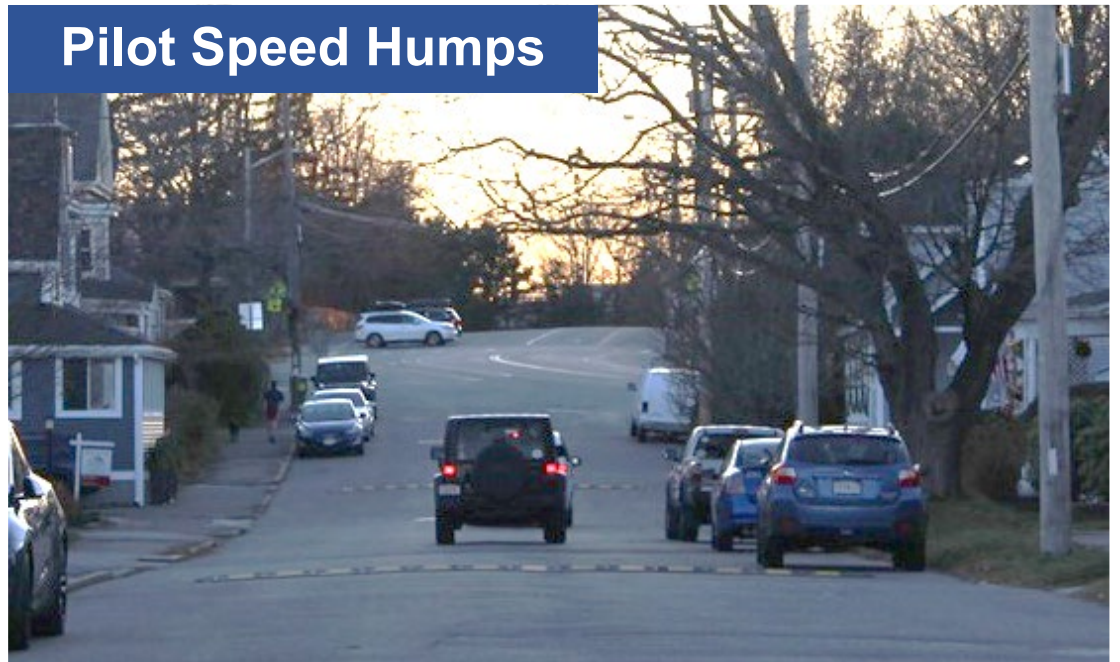
- '22 Pilot with temporary humps:
  - Average Speed = **20mph**
  - 85th % Speed = **23mph**
- % people speeding over 20mph
  - Dec '22 Pilot Speed Humps = 38%
  - Jan '23 No Calming = 91%
- Chestnut Street traffic increased 10%  
Dec 22 to Jan 23 (1789 to 1973 ADT)
- **Going to permanent speed humps.**



**Columbus Avenue**



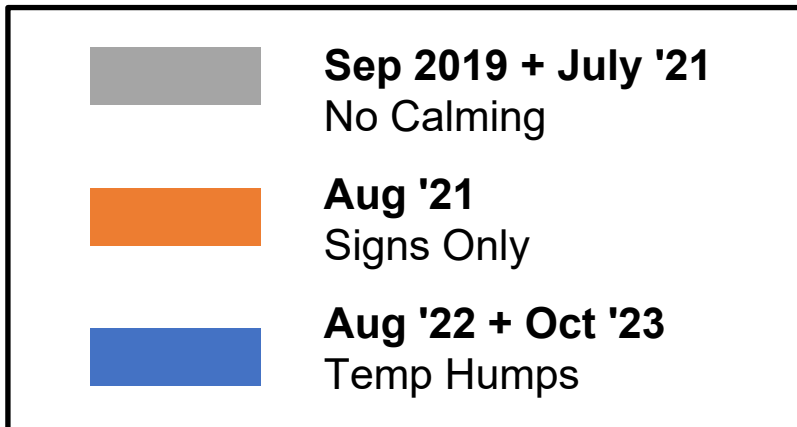
# Columbus Avenue



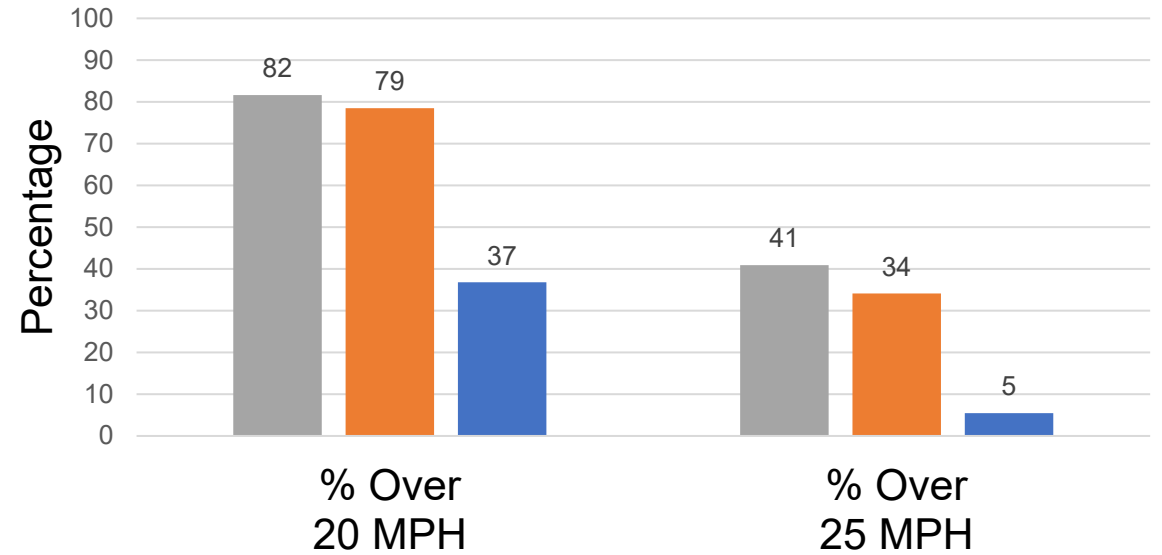


# Columbus Ave Data Collection

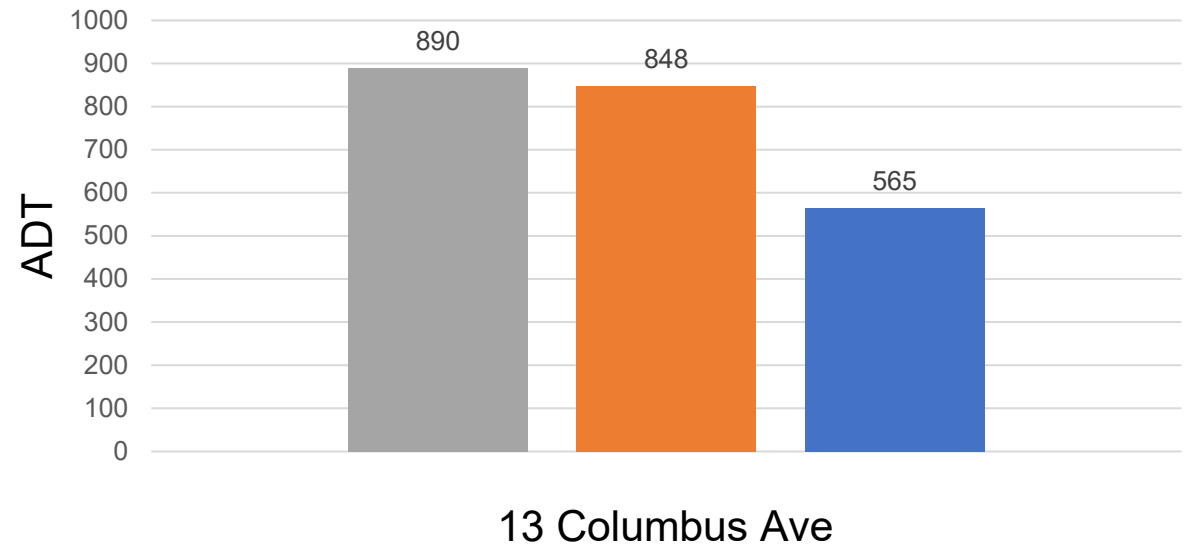
# Columbus Ave Data



## Columbus Ave: Vehicle Speeds



## Columbus Ave: Average Daily Traffic



# Columbus Ave Evaluation Summary

- **'23 Pilot with temporary humps:**
  - Average Speed = **20mph**
  - 85th % Speed = **23mph**
- **% people speeding over 20mph**
  - July '21 No Calming = 78%
  - Aug '22 Pilot Speed Humps = 38%
  - Aug '23 Pilot Speed Humps = 35%
- **Going to permanent speed humps.**



# More info visit:

<https://traffic-calming-1-salem.hub.arcgis.com/>

The screenshot shows the 'Traffic Calming' web application interface. At the top, there is a navigation bar with the following items: Traffic Calming (with a logo), Demographic Priority, Land Use Proximity, Crash Priority, Speed and Volume Priority, Dashboards, Process, and Resources. A Twitter icon is located in the top right corner. Below the navigation bar, a central text block reads: 'For more information on Salem's Neighborhood Traffic Calming Program, please visit the site below: [Neighborhood Traffic Calming](#)'. Below this, it says: 'Click on the link below to download a spreadsheet with a rank for every street in the City of Salem: [Traffic Calming Priority Spreadsheet](#)'. The main content area features three interactive dashboard cards, each with a preview image and an 'Explore' button. The first card is titled 'Crash Dashboard' and shows a map of Salem with crash data points and a large red number '3,461'. The second card is titled 'Speed and Volume Data' and displays various metrics such as 'Speed Limit 25', 'Average Speed 25', and 'Volume Comparison' with bar charts. The third card is titled 'Traffic Calming Final Ranking' and shows a map with streets color-coded by ranking. At the bottom of the interface, a dark blue banner contains the text 'TRAFFIC CALMING IN SALEM' in white capital letters.

# Next Steps

## Public Feedback Period

- [www.publicinput.com/salemtrafficalming](http://www.publicinput.com/salemtrafficalming)
- Comment Period open until Feb 15, 2024


## Winter / Early Spring


- Review Analysis and Feedback
- Planning and Design

## Spring / Summer

- Pilot and Permanent Installations

# 2024 DRAFT Neighborhood Traffic Calming Program

 Pilot Installations

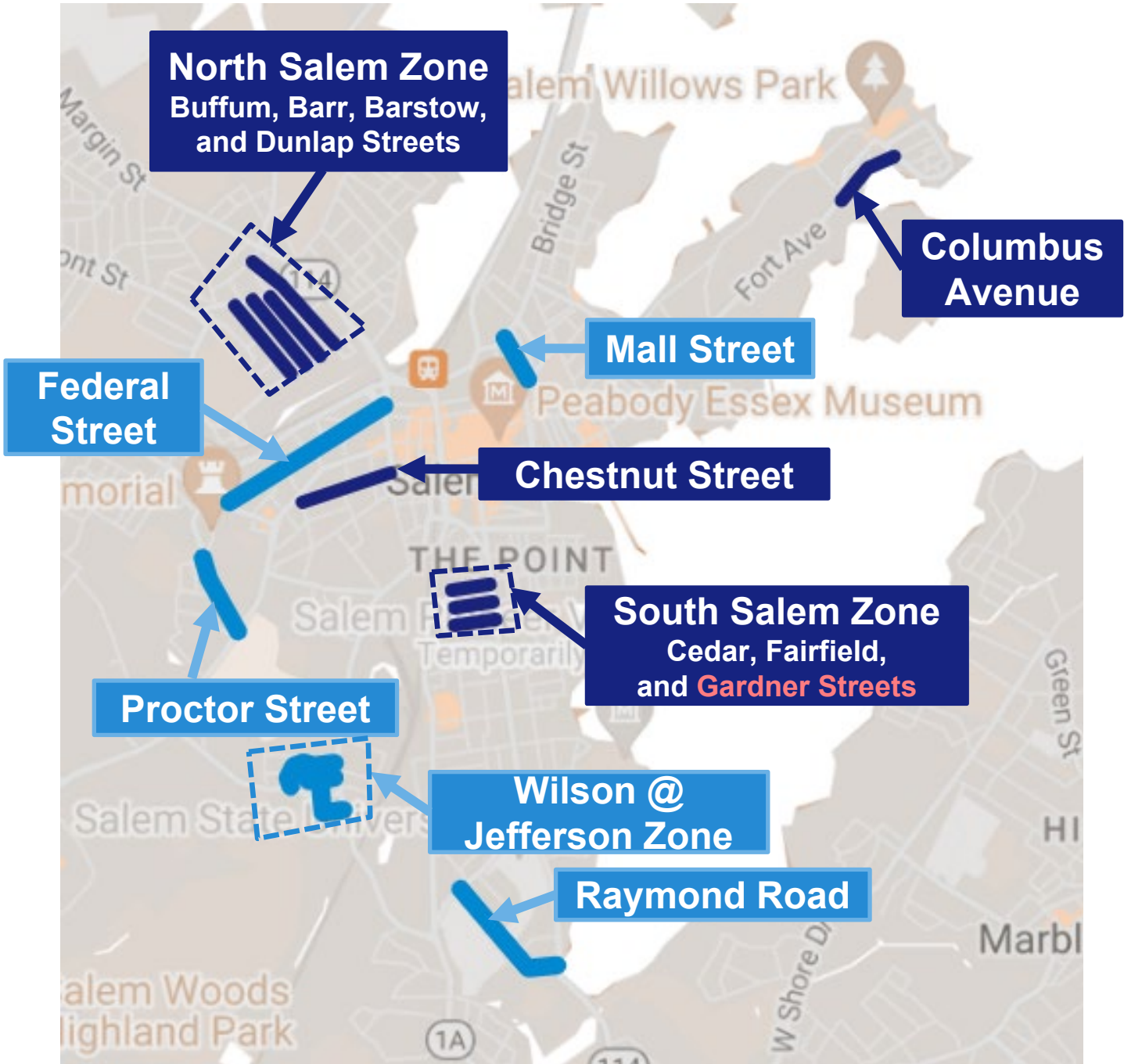
 Permanent Installations

## 2024 Pilots

- Proctor Street
- Federal Street
- Raymond Road
- Mall Street
- Wilson @ Jefferson Zone

## 2024 Permanent Installations

- Gardner Street\* pending utility work
- Chestnut Street
- Columbus Avenue



# Questions / Discussion



Translate

**Public Comment Period Open!**  
Give your feedback until Feb 15, 2024 at  
[www.publicinput.com/salemtrafficalming](http://www.publicinput.com/salemtrafficalming)

## **Project Contact**

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City of Salem  
[chodge@salem.com](mailto:chodge@salem.com)