Neighborhood Traffic Calming
2022 Program Recap

Traffic & Parking Commission Meeting
December 14, 2022

SALEM CONDITA A.D. 1626.
CIVITATIS REGIMINE DONATA A.D. 1836.

neighborwaysdesign

Outline

- Traffic Calming Program Overview
- 2022 Project Recap
- Data Analysis
- Lessons Learned and Next Steps

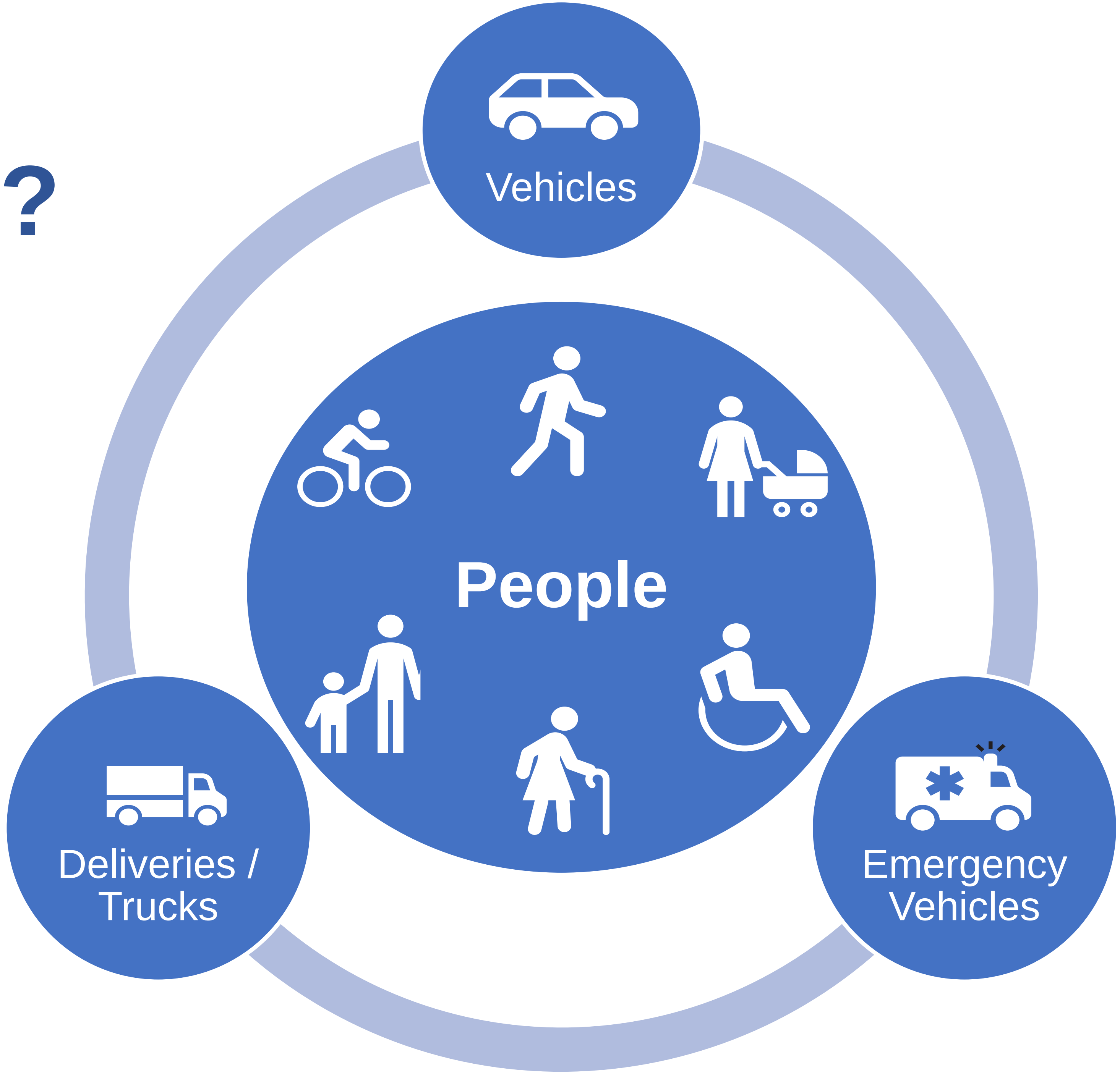
SAFETY ZONE
SPEED LIMIT 20
SLOW

Program Goals

- Slow and calm traffic
- Test ideas
- Collect and evaluate data and feedback
- Pilot to Permanent

DRIVE
LIKE YOUR
KIDS
LIVE HERE®

Who is this for?



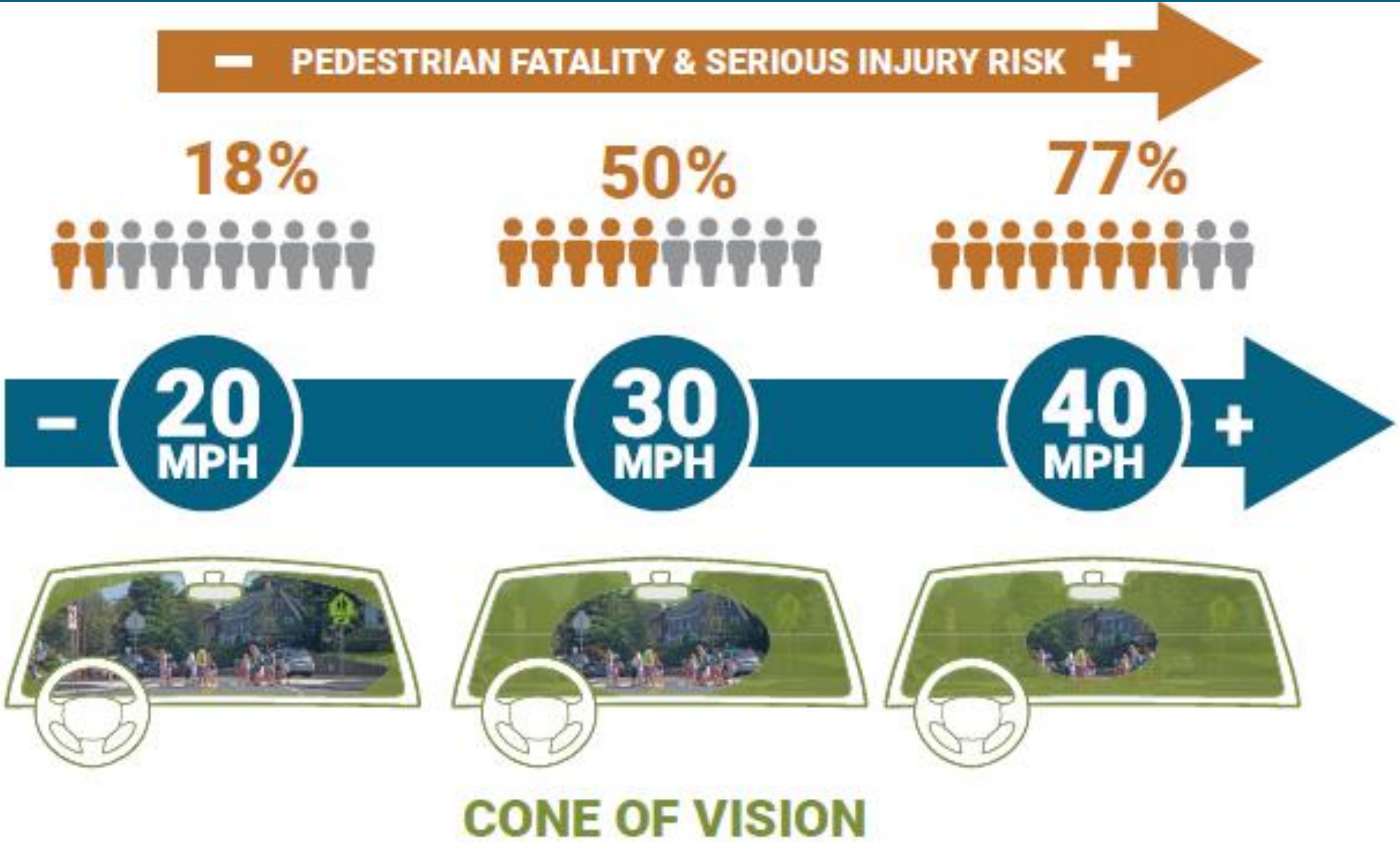
Vehicles

People

Deliveries / Trucks

Emergency Vehicles

Slower Speeds Save Lives


– PEDESTRIAN FATALITY & SERIOUS INJURY RISK +
18%
50%
77%
–
20 MPH
30 MPH
40 MPH
+
CONE OF VISION

Source: FHWA's Achieving Multimodal Networks Applying Design Flexibility & Reducing Conflicts, 2016

Program History

2011
Complete Streets Policy Adopted

2018
Traffic Calming Program Launch

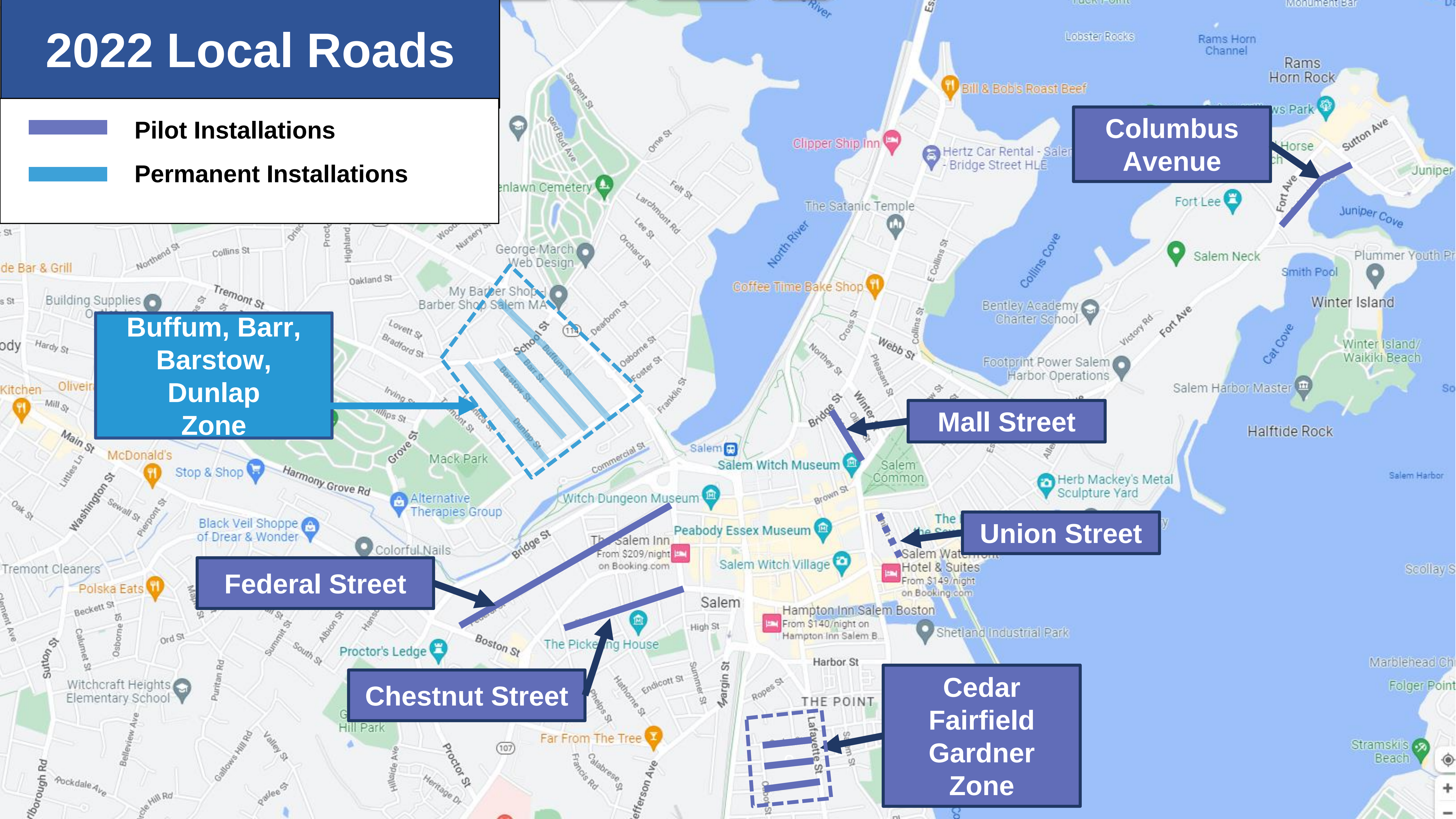
2020
Shared Streets Pilots

2021
Temporary Calming Pilots

2022
Temporary Pilots and Permanent Calming

2022 Local Roads

- ▬ Pilot Installations
- ▬ Permanent Installations



Columbus Avenue

Mall Street

Buffum, Barr, Barstow, Dunlap Zone

Union Street

Federal Street

Chestnut Street

Cedar Fairfield Gardner Zone

Lobster Rocks
Rams Horn Channel
Rams Horn Rock
Bill & Bob's Roast Beef
Clipper Ship Inn
Hertz Car Rental - Salem - Bridge Street HLE
Sutton Ave
Juniper
Fort Lee
Fort Ave
Juniper Cove
The Satanic Temple
North River
Collins Cove
Salem Neck
Smith Pool
Plummer Youth Pr
Winter Island
Coffee Time Bake Shop
Bentley Academy Charter School
Victory Rd
Cat Cove
Winter Island/ Waikiki Beach
Footprint Power Salem Harbor Operations
Salem Harbor Master
Halftide Rock
Webb St
E Collins St
Collins St
Cross St
Northey St
Pleasant St
Bridge St
Winter St
Salem Common
Herb Mackey's Metal Sculpture Yard
Salem Harbor
Salem Witch Museum
Salem
Brown St
Greenlawn Cemetery
Sargent St
Red Bud Ave
Orne St
Felt St
Larchmont Rd
Lee St
Orchard St
George March Web Design
My Barber Shop - Barber Shop Salem MA
Oakland St
Tremont St
Northend St
Collins St
Nursery St
Highland Ave
Dearborn St
Osborne St
Foster St
Franklin St
School St
Buffum St
Barr St
Barstow St
Dunlap St
Lovett St
Bradford St
Irving St
Phillips St
Grove St
Mack Park
Commercial St
Witch Dungeon Museum
Building Supplies
Hardy St
Kitchen
Oliveira
Mill St
Main St
McDonald's
Stop & Shop
Harmony Grove Rd
Alternative Therapies Group
Black Veil Shoppe of Drear & Wonder
Colorful Nails
Bridge St
Tremont Cleaners
Polska Eats
Washington St
Sewall St
Pierpont St
Oak St
Littles Ln
Peabody Essex Museum
The Salem Inn From $209/night on Booking.com
Salem Witch Village
Salem Waterfront Hotel & Suites From $149/night on Booking.com
Hampton Inn Salem Boston From $140/night on Hampton Inn Salem B...
Shetland Industrial Park
Salem
High St
Harbor St
The Pickering House
Boston St
Proctor's Ledge
Beckett St
Ord St
Summit St
South St
Albion St
Calumet St
Osborne St
Sutton St
Witchcraft Heights Elementary School
Gallows Hill Park
Puritan Rd
Endicott St
Summer St
Margin St
Hathorne St
Phelps St
Ropes St
THE POINT
Lafayette St
Far From The Tree
Calabrese St
Francis Rd
Jefferson Ave
Proctor St
Heritage Dr
Hillside Ave
Valley St
Gallows Hill Rd
Bellevue Ave
Rockdale Ave
Pardee St
Marblehead Ch
Folger Point
Stramski's Beach
Scollay S
Salem Harbor
107
114

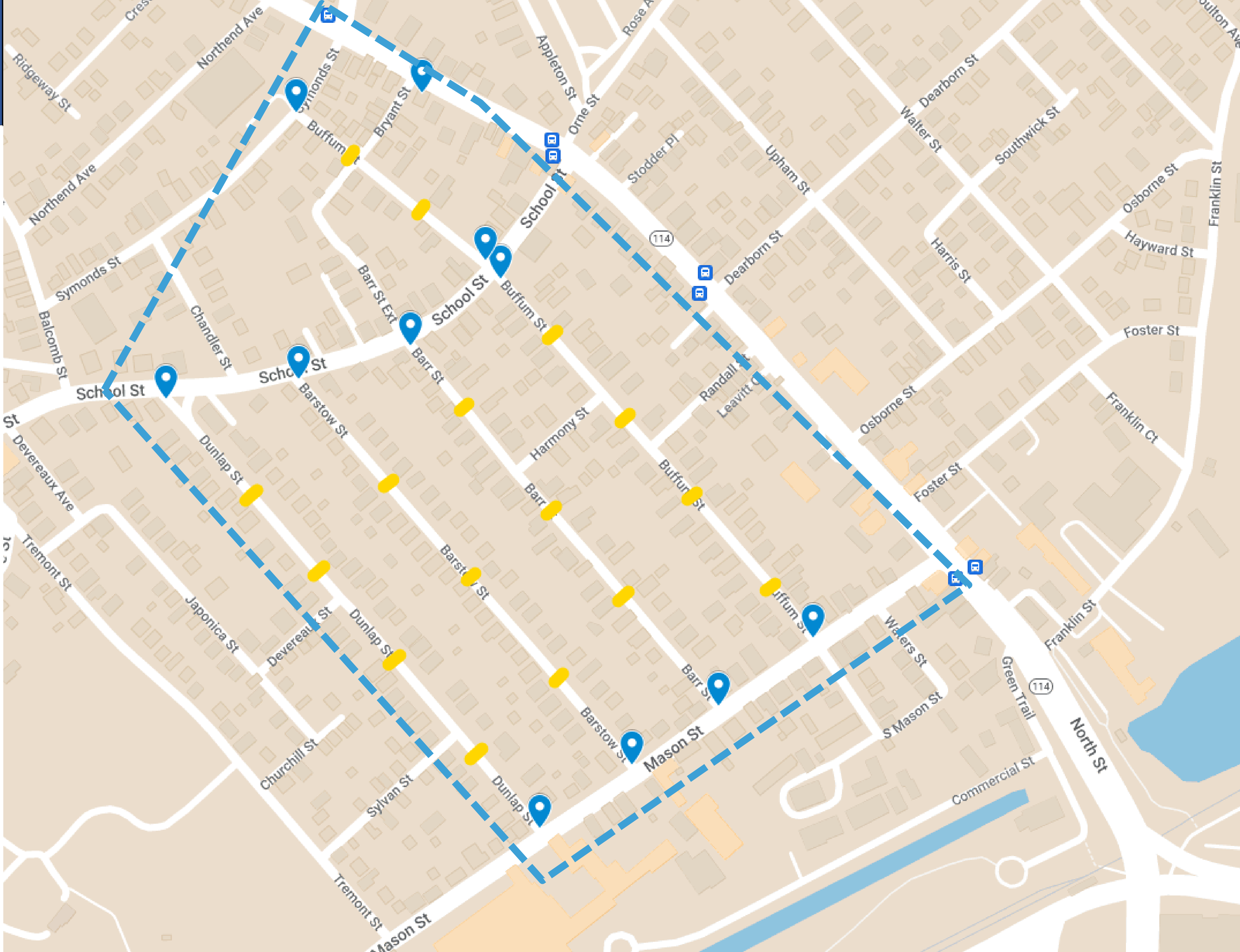
North Salem Zone

Legend

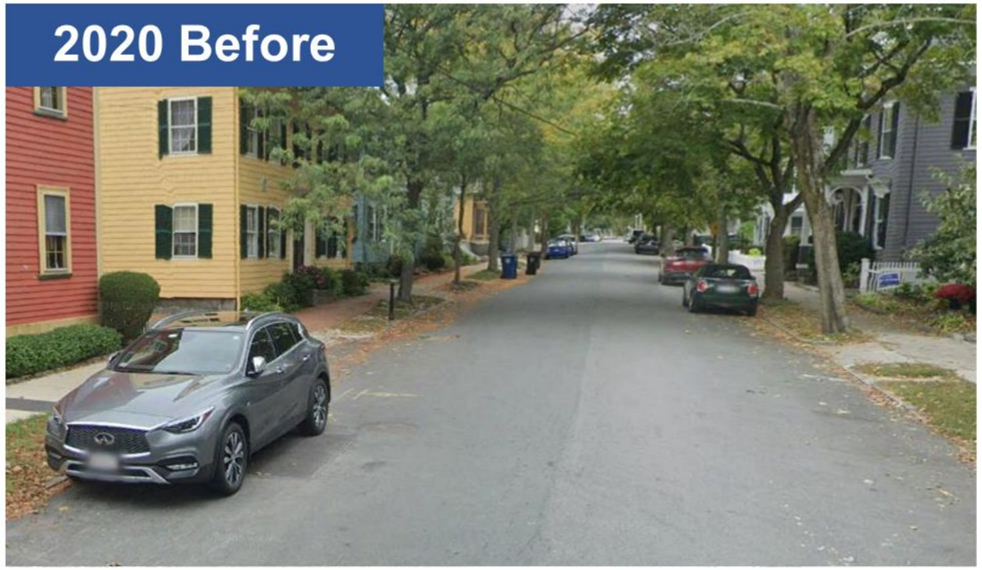
⬚ Project Limits

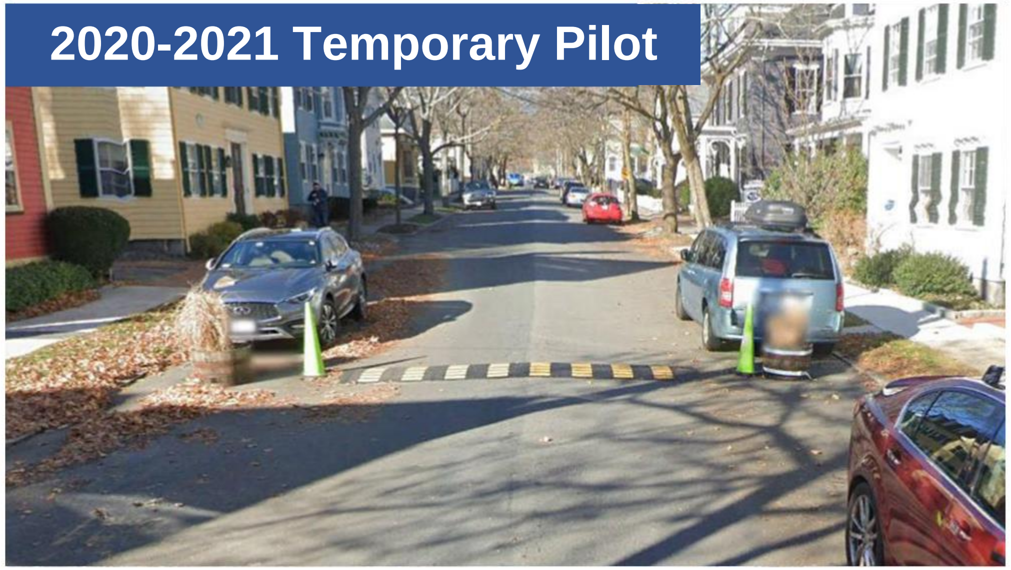
📍 Gateway

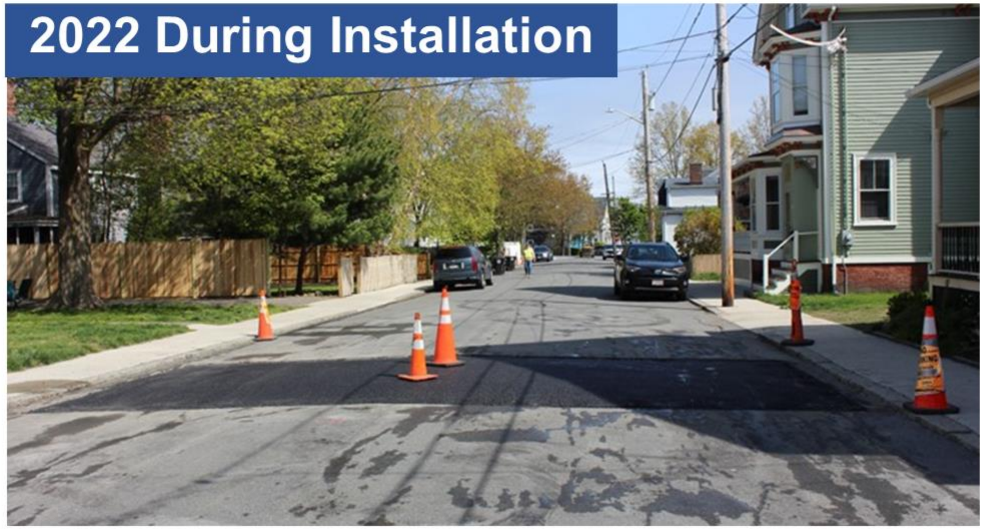
▬ Speed Hump

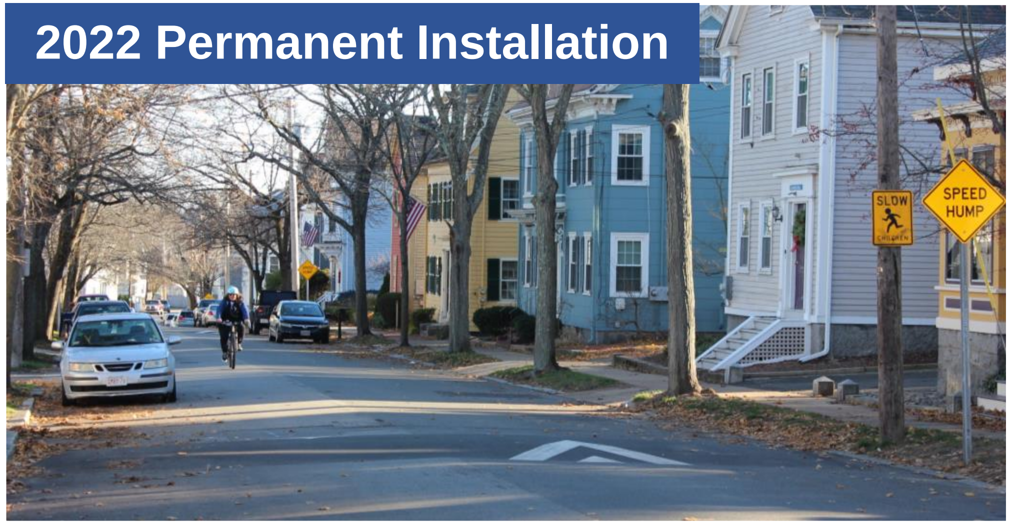

Ridgeway St
Northend Ave
Northend Ave
Symonds St
Symonds St
Buffum St
Bryant St
Appleton St
Orne St
Rose A
Stodder Pl
Upham St
Dearborn St
Walter St
Southwick St
Osborne St
Hayward St
Franklin St
Harris St
Dearborn St
114
School St
School St
School St
School St
Barr St Ext
Buffum St
Balcomb St
Chandler St
Barr St
Barstow St
Harmony St
Randall St
Leavitt Ct
Osborne St
Foster St
Foster St
Franklin Ct
Devereaux Ave
Dunlap St
Barr St
Buffum St
Tremont St
Japonica St
Devereaux St
Dunlap St
Barstow St
Buffum St
Waters St
Franklin St
Green Trail
114
North St
Barr St
S Mason St
Churchill St
Barstow St
Mason St
Commercial St
Sylvan St
Dunlap St
Tremont St
Mason St

North Salem Pilot to Permanent


2020 Before

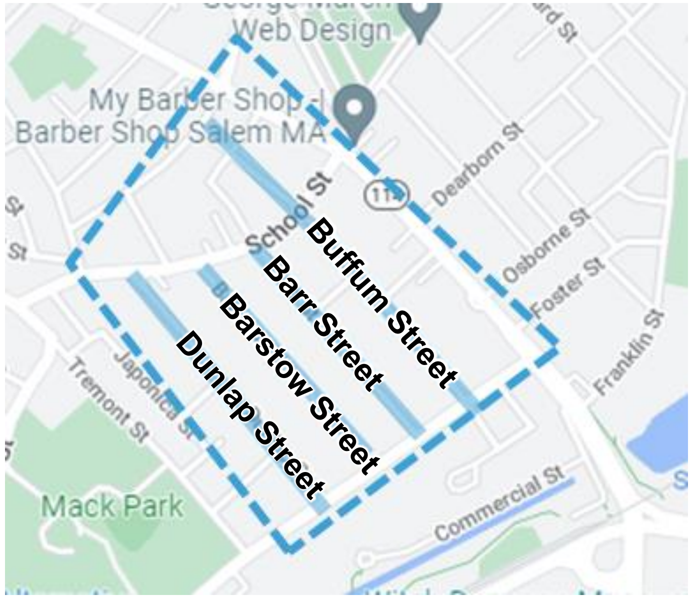

2020-2021 Temporary Pilot


2022 During Installation

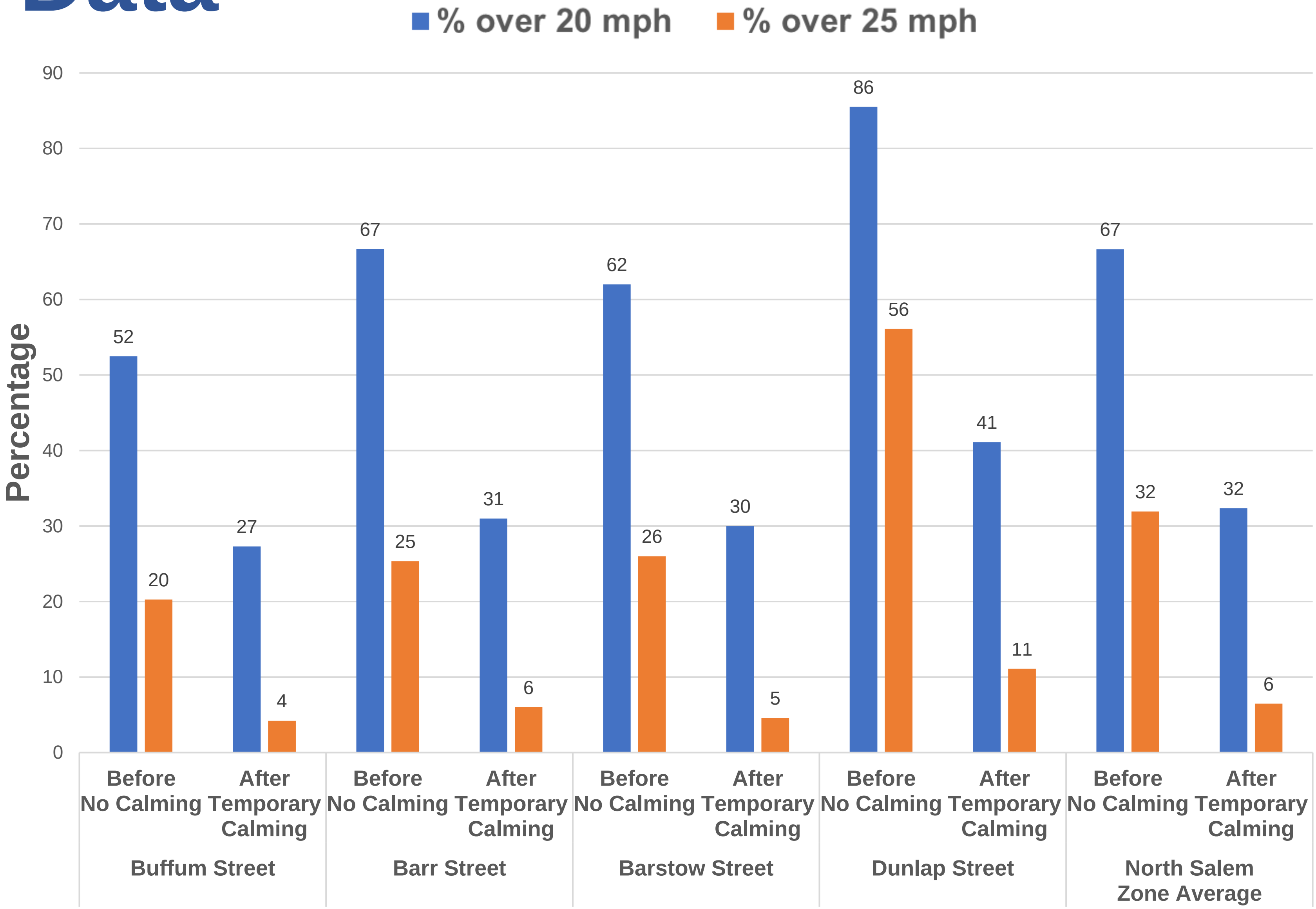

2022 Permanent Installation

SLOW
SPEED HUMP

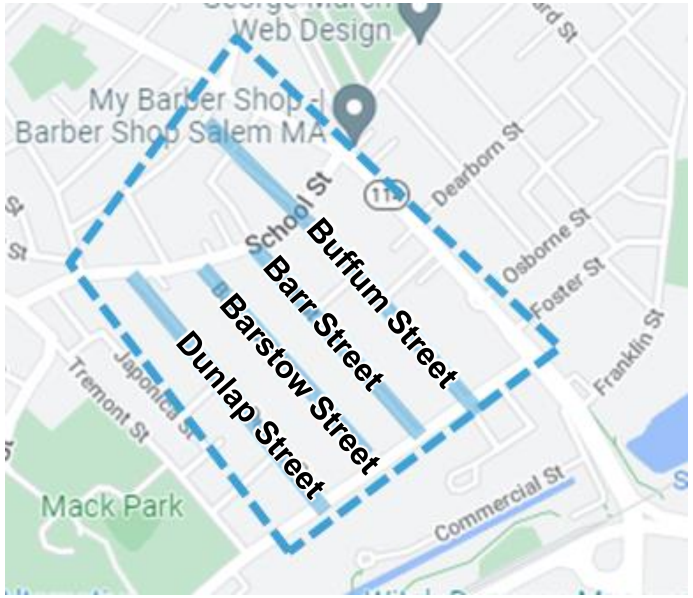
North Salem Data


Web Design
My Barber Shop - Barber Shop Salem MA
School St
Dearborn St
Osborne St
Foster St
Franklin St
Buffum Street
Barr Street
Barstow Street
Dunlap Street
Tremont St
Japonica St
Mack Park
Commercial St

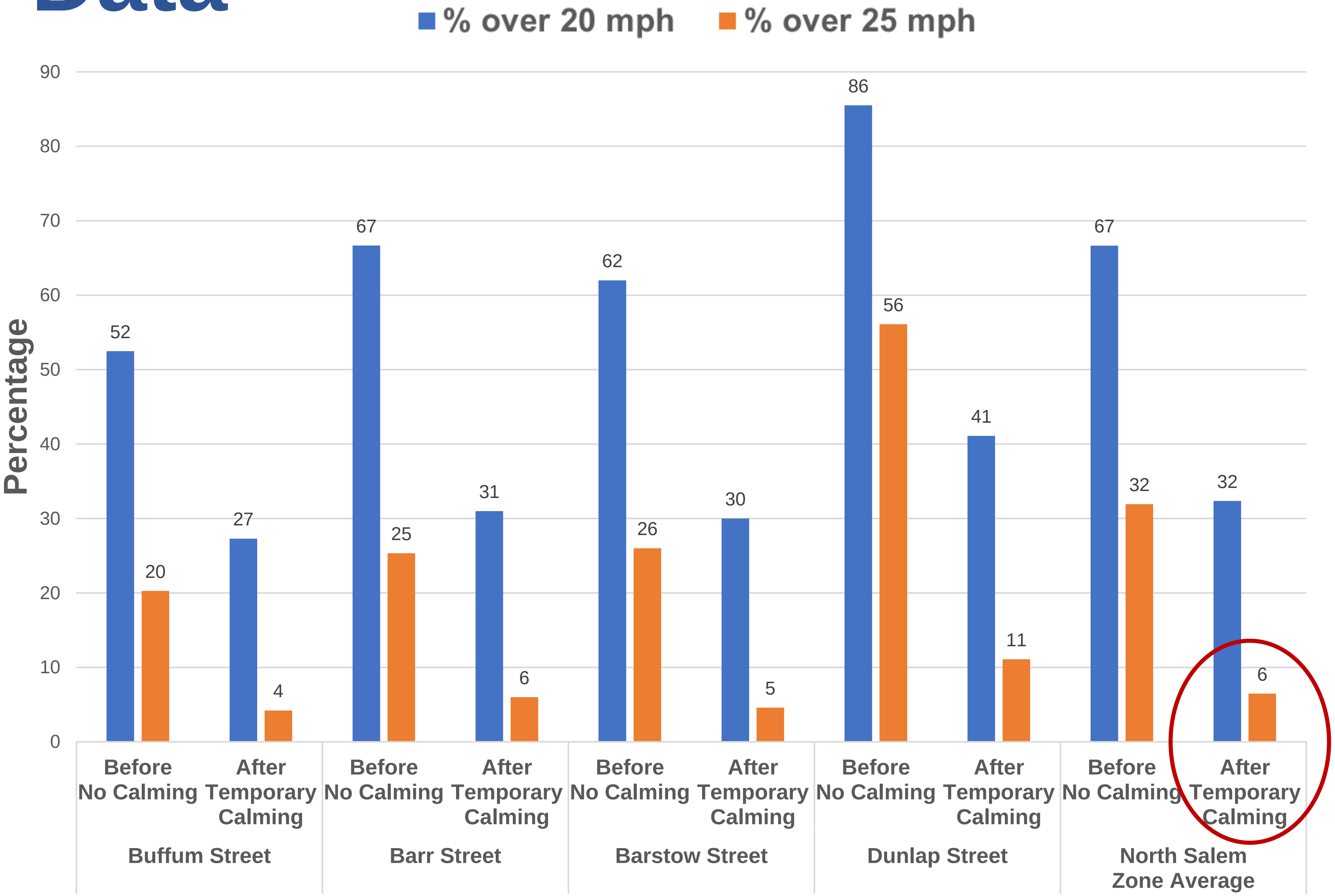
DUNLAP
SAFETY ZONE
SPEED LIMIT 20



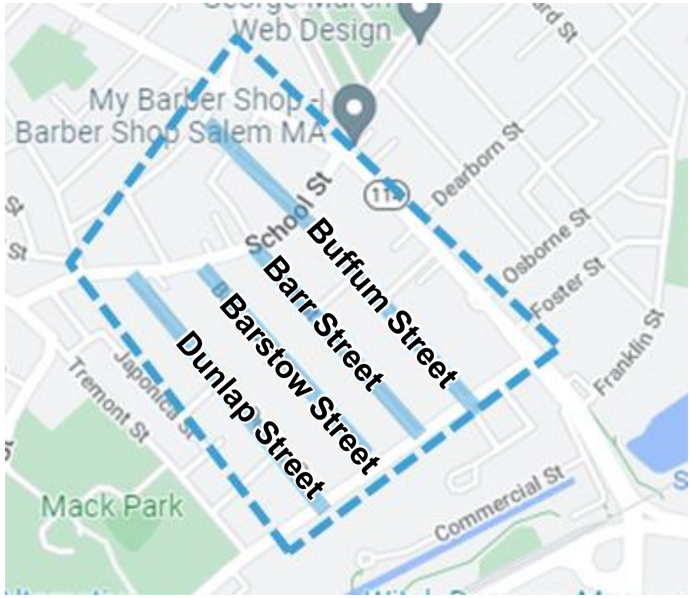
North Salem Data


Web Design
My Barber Shop - Barber Shop Salem MA
114
Dearborn St
Osborne St
Foster St
Franklin St
School St
Buffum Street
Barr Street
Barstow Street
Dunlap Street
Tremont St
Japonica St
Mack Park
Commercial St

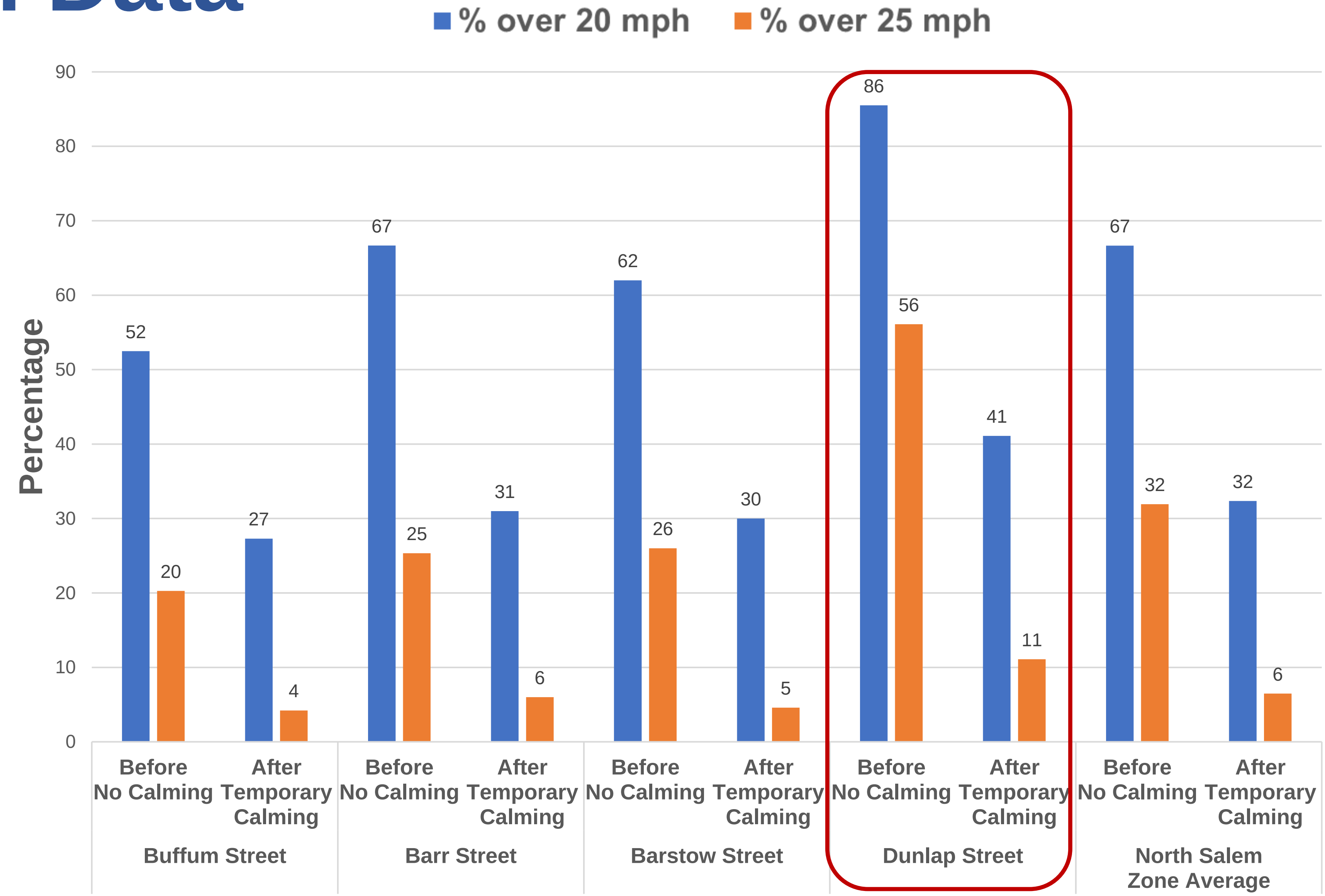
SAFETY ZONE
SPEED LIMIT 20



North Salem Data


Web Design
My Barber Shop - Barber Shop Salem MA
School St
Buffum Street
Barr Street
Barstow Street
Dunlap Street
Dearborn St
Osborne St
Foster St
Franklin St
Tremont St
Japonica St
Mack Park
Commercial St

DUNLAP
SAFETY ZONE
SPEED LIMIT
20



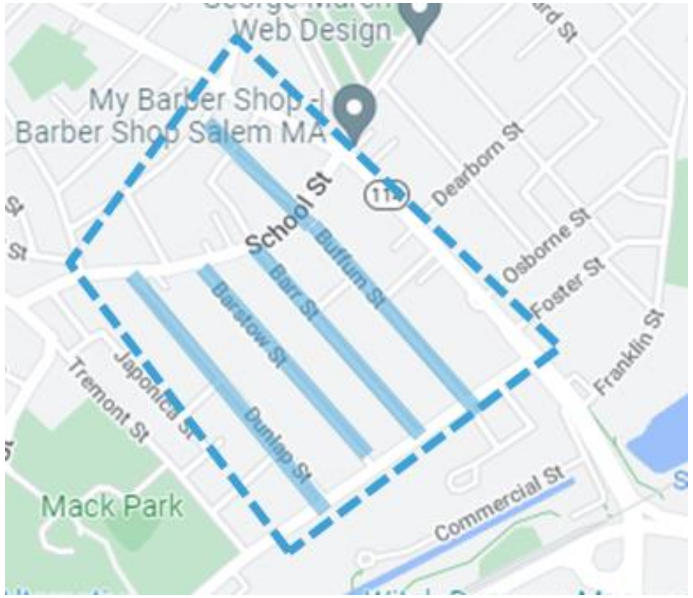
Widest Street

North Salem Zone Data

After traffic calming treatments:

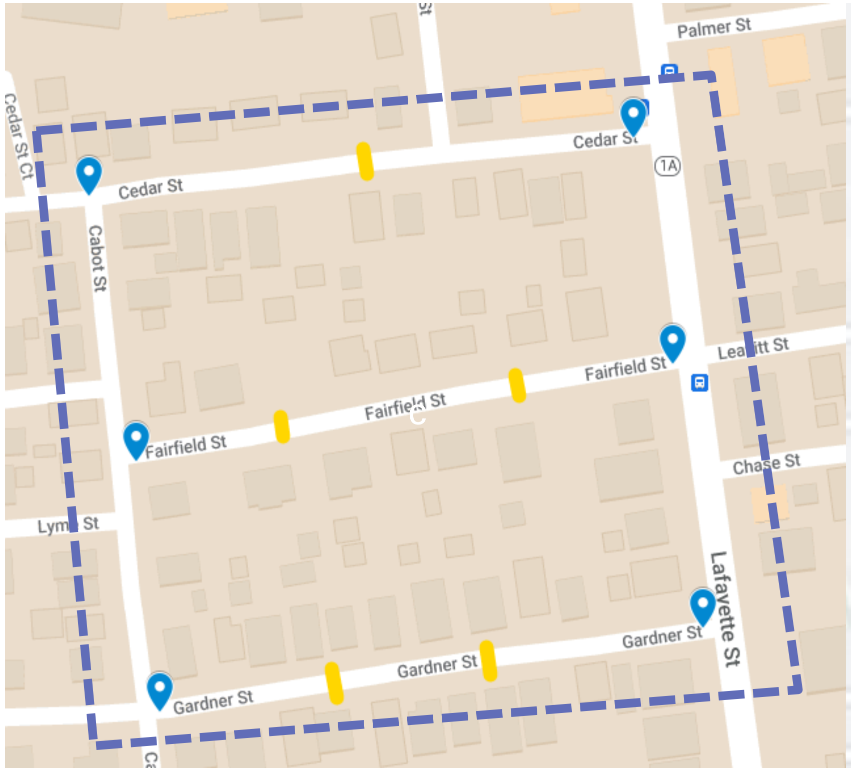
- Average speeds = **19mph (- 17%)**
- Driving over 40mph = **<1%** (- **81%)**
- Average daily traffic (ADT) =

  546 vehicles per day (- 3%)

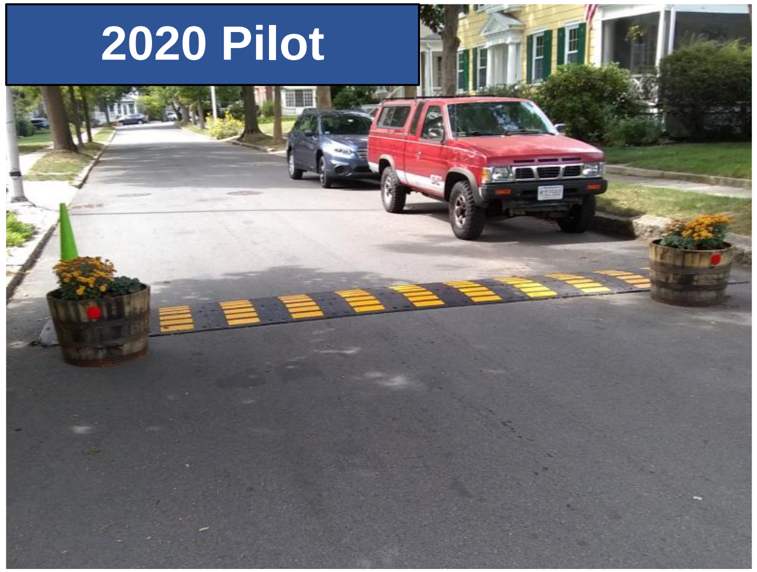

Web Design
My Barber Shop - Barber Shop Salem MA
School St
114
Dearborn St
Osborne St
Foster St
Franklin St
Buffum St
Barr St
Barstow St
Dunlap St
Japonica St
Tremont St
Mack Park
Commercial St

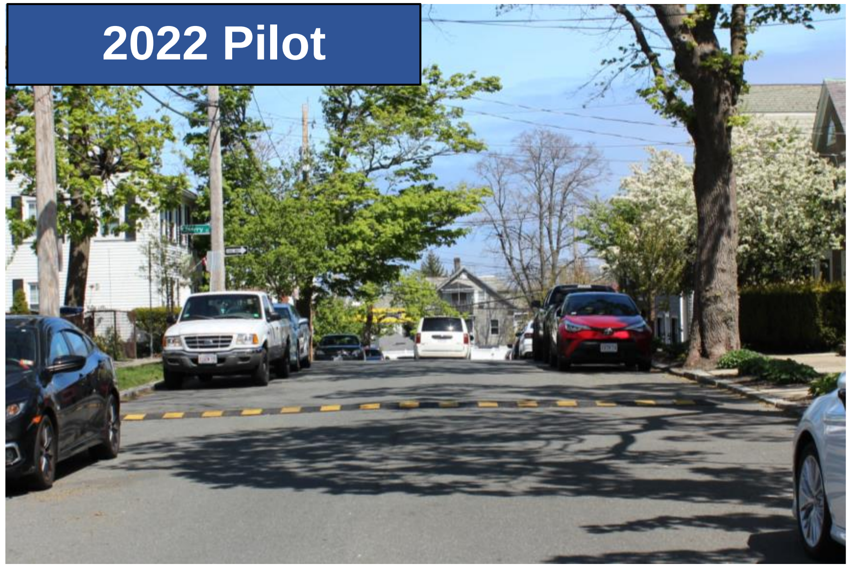
SLOW CHILDREN
SPEED HUMP

South Salem Zone
Cedar Fairfield Gardner

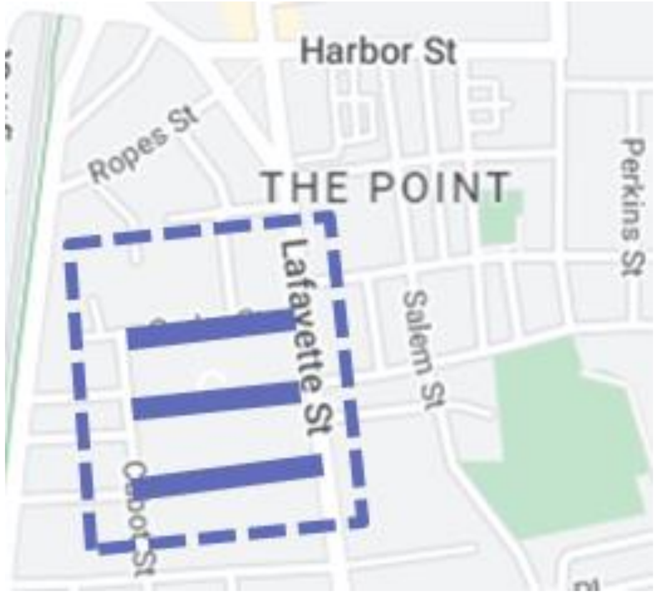

Palmer St
Cedar St Ct
Cedar St
Cedar St
1A
Cabot St
Fairfield St
Fairfield St
Fairfield St
Leavitt St
Chase St
Lym St
Gardner St
Gardner St
Gardner St
Lafayette St

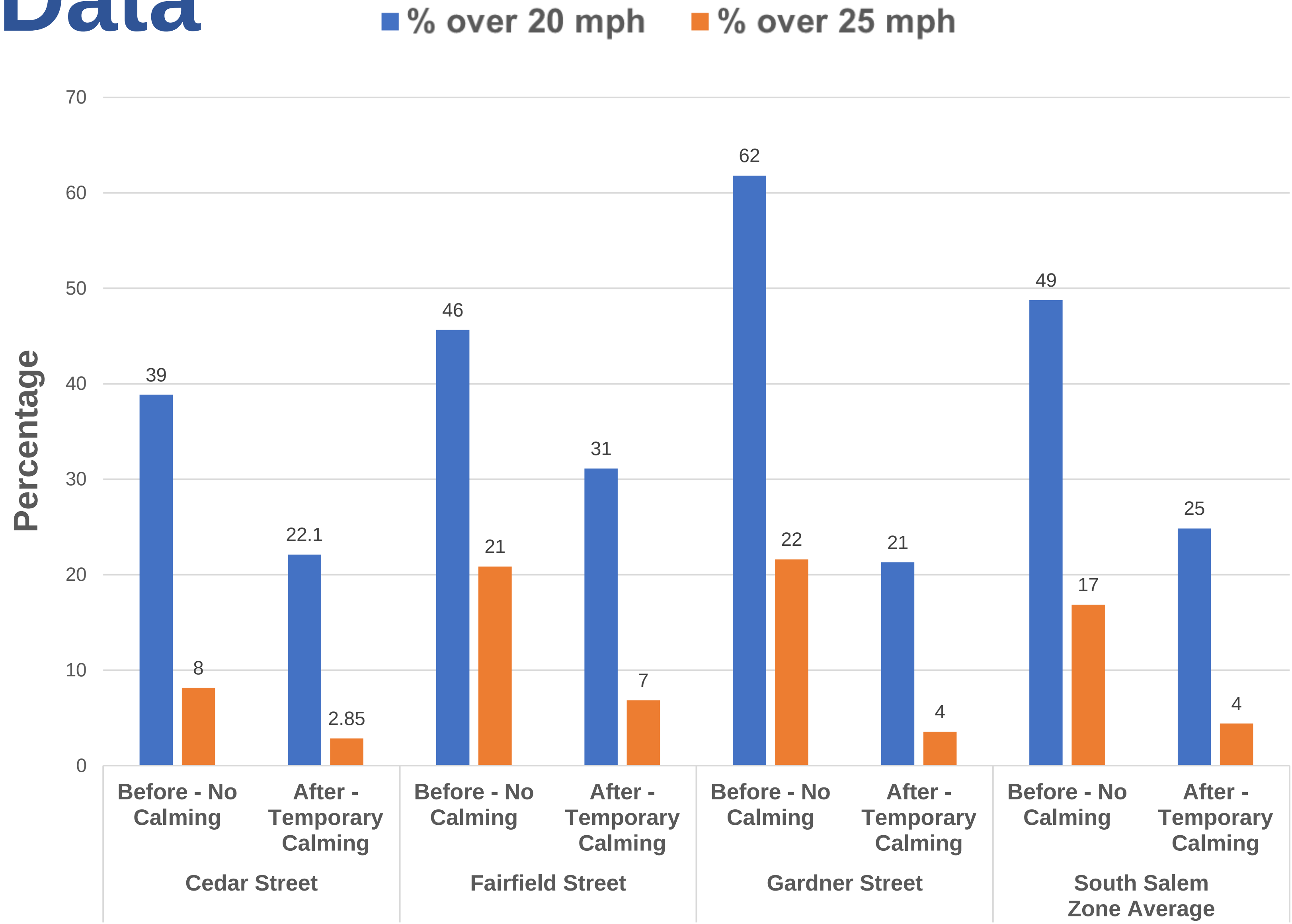
2020 Before


2020 Pilot

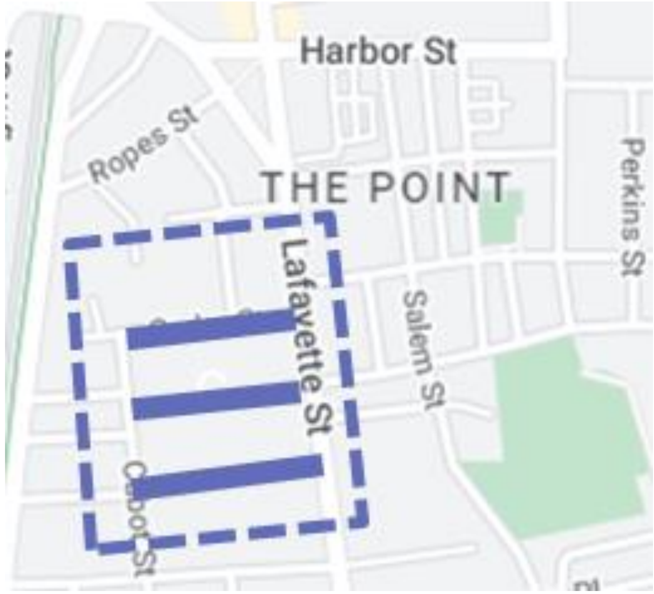

2022 Pilot

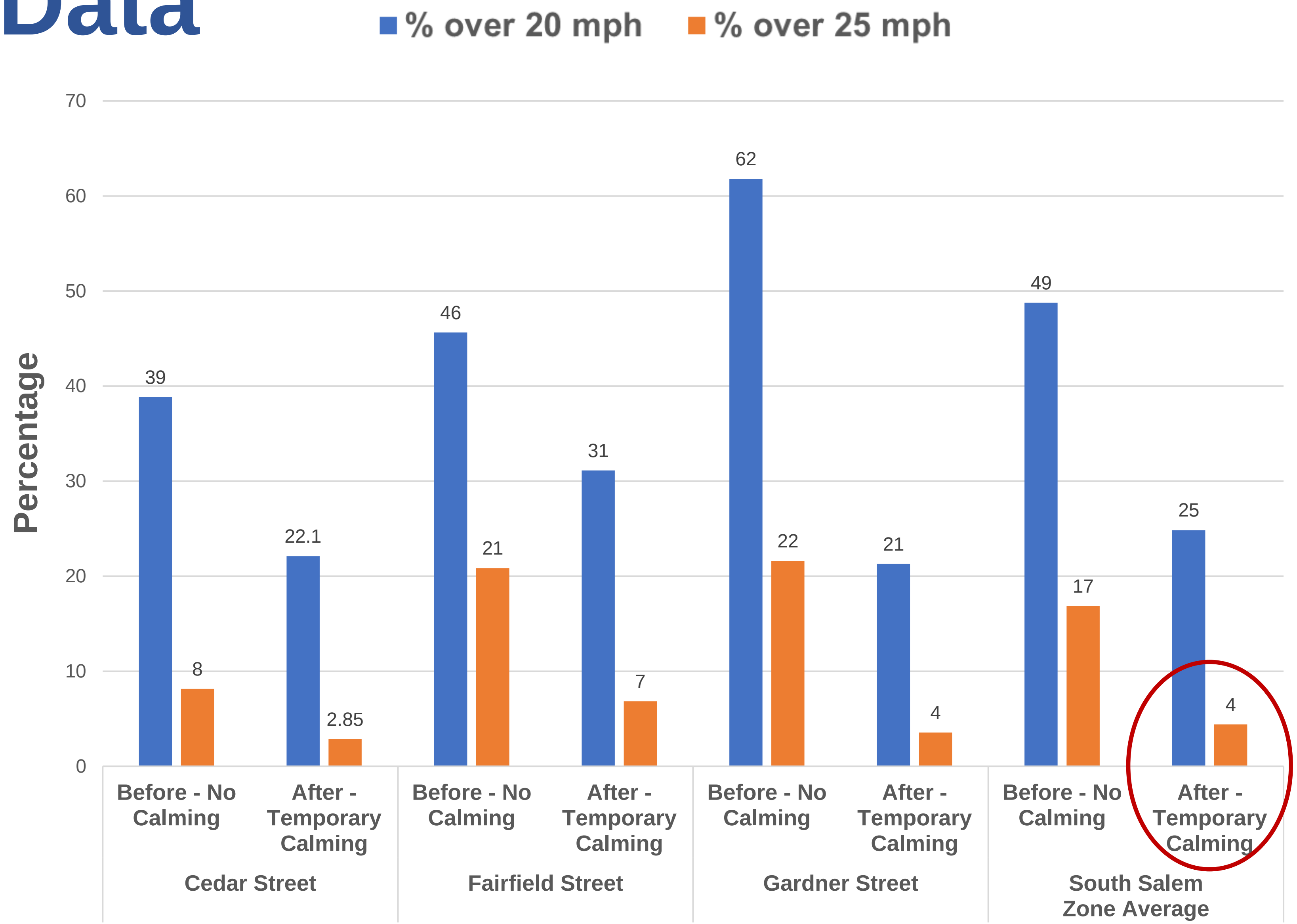
South Salem Data


Harbor St
Ropes St
THE POINT
Lafayette St
Salem St
Perkins St
Cabot St



South Salem Data

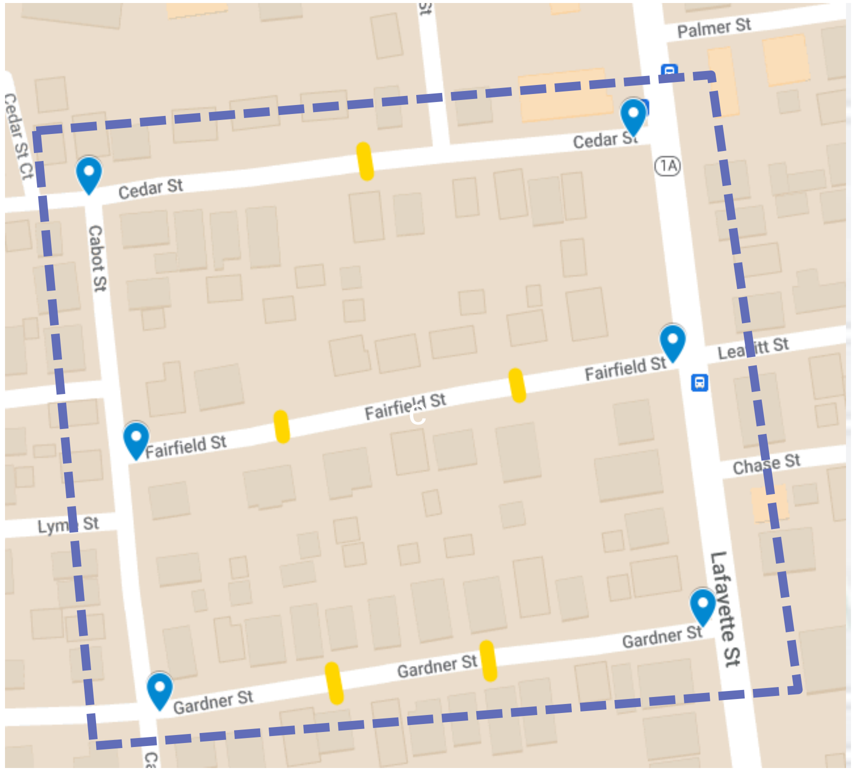

Harbor St
Ropes St
THE POINT
Perkins St
Lafayette St
Salem St
Cabot St



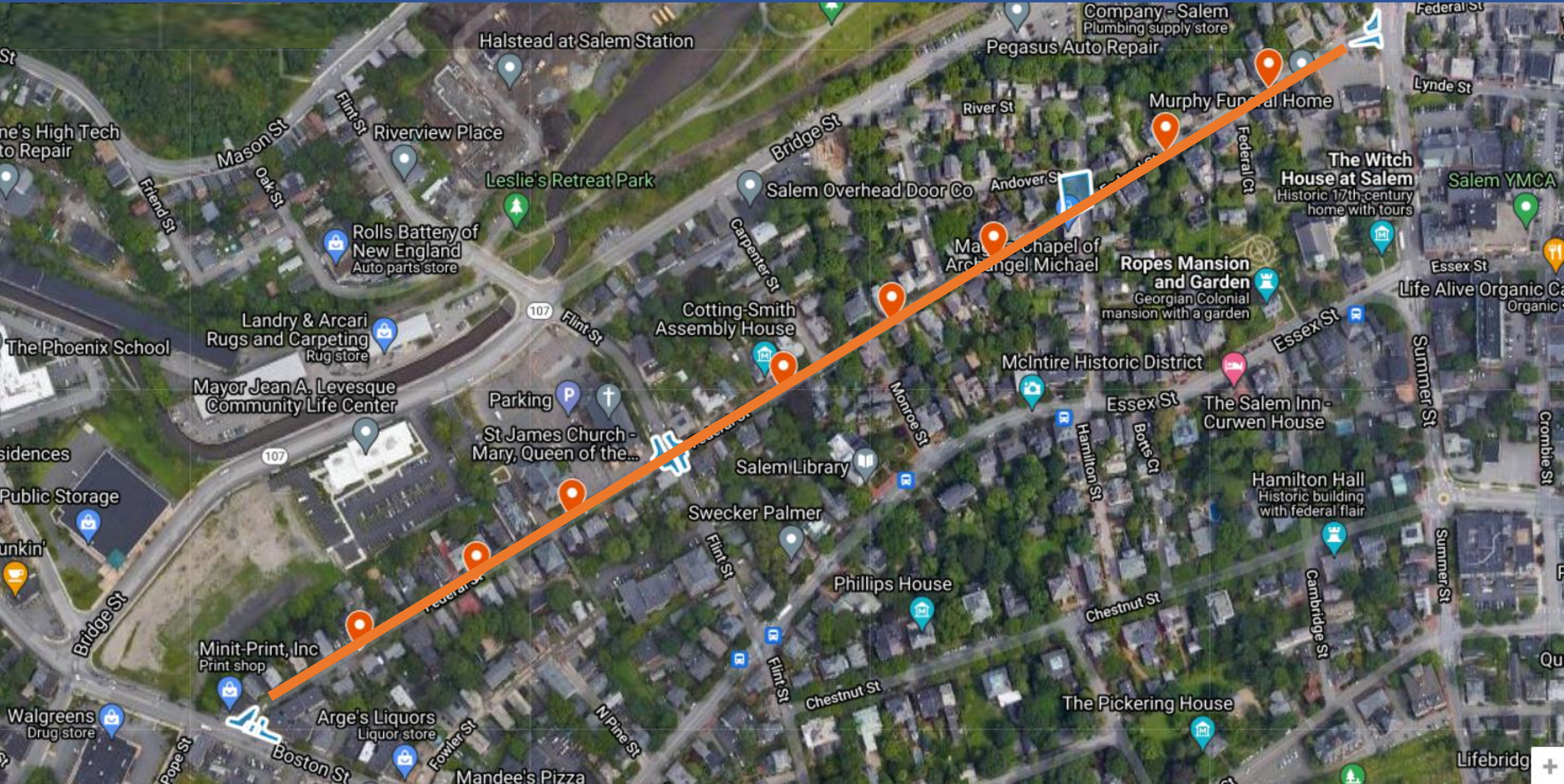
South Salem Zone Data

After traffic calming treatments:

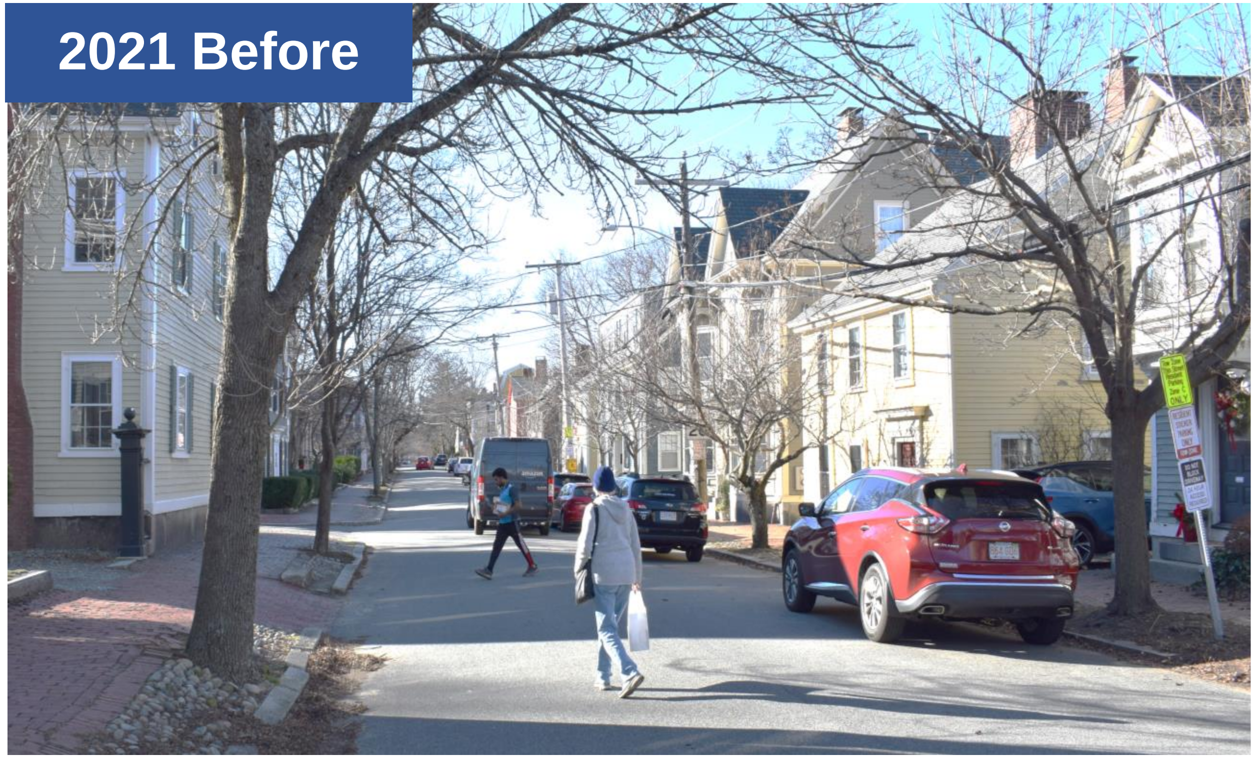
- Average speeds = **19mph (-13%)**
- Driving over 40mph **= 0.03% (- 85%)**
- ADT = **318 vehicles per day (-13%)**


Palmer St
Cedar St Ct
Cedar St
Cedar St
1A
Cabot St
Fairfield St
Fairfield St
Fairfield St
Leavitt St
Chase St
Lyme St
Lafayette St
Gardner St
Gardner St
Gardner St

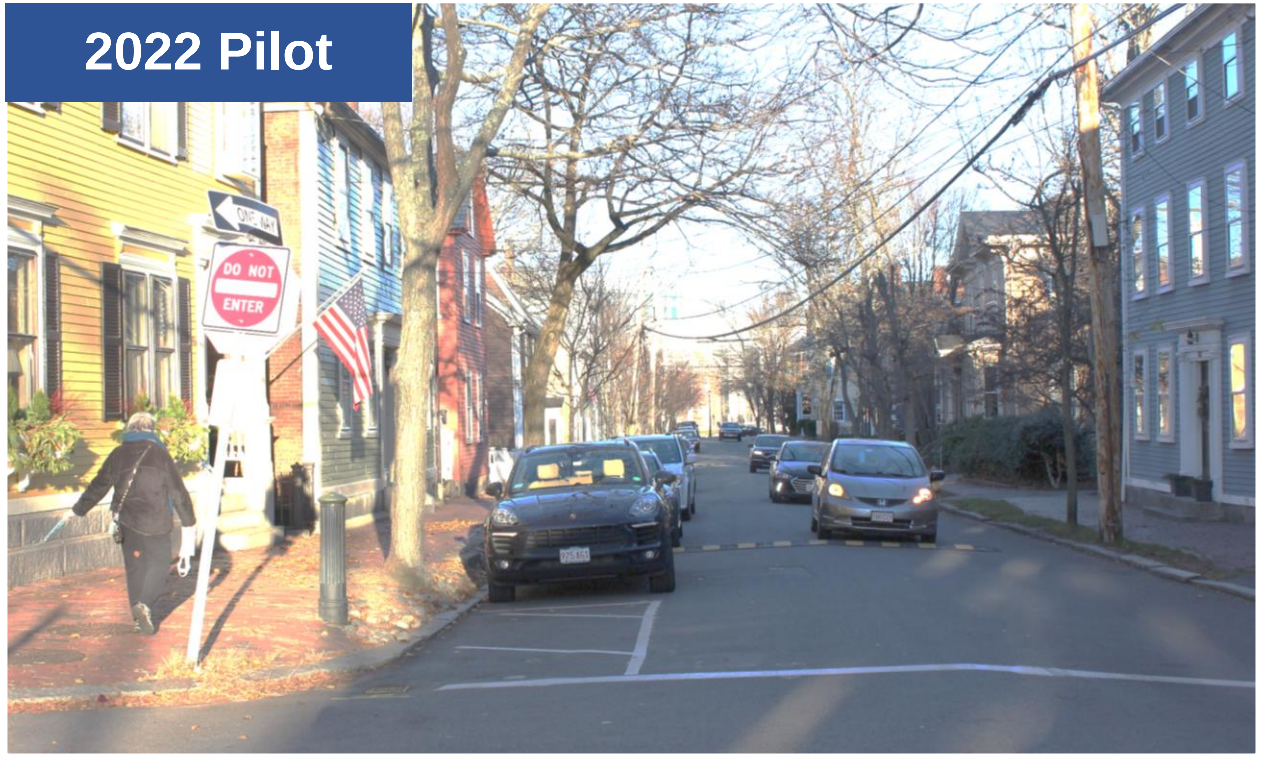
Federal St from North St to Boston St (0.55 mi)


Halstead at Salem Station
Company - Salem
Plumbing supply store
Pegasus Auto Repair
Federal St
Lynde St
Murphy Funeral Home
River St
Riverview Place
Mason St
Flint St
Oak St
Friend St
Leslie's Retreat Park
Bridge St
Salem Overhead Door Co
Andover St
Federal Ct
The Witch House at Salem
Historic 17th-century home with tours
Salem YMCA
Rolls Battery of New England
Auto parts store
Carpenter St
Chapel of Archangel Michael
Ropes Mansion and Garden
Georgian Colonial mansion with a garden
Essex St
Life Alive Organic Ca
Landry & Arcari Rugs and Carpeting
Rug store
The Phoenix School
107
Cotting-Smith Assembly House
McIntire Historic District
Mayor Jean A. Levesque Community Life Center
Parking
St James Church - Mary, Queen of the...
Monroe St
Hamilton St
Botts Ct
The Salem Inn - Curwen House
Summer St
Crombie St
Salem Library
Public Storage
Swecker Palmer
Hamilton Hall
Historic building with federal flair
Phillips House
Chestnut St
Cambridge St
Bridge St
Minit-Print, Inc
Print shop
Walgreens
Drug store
Arge's Liquors
Liquor store
Fowler St
N Pine St
Boston St
Pope St
Mandee's Pizza
The Pickering House
Lifebridg

Federal Street Pilot



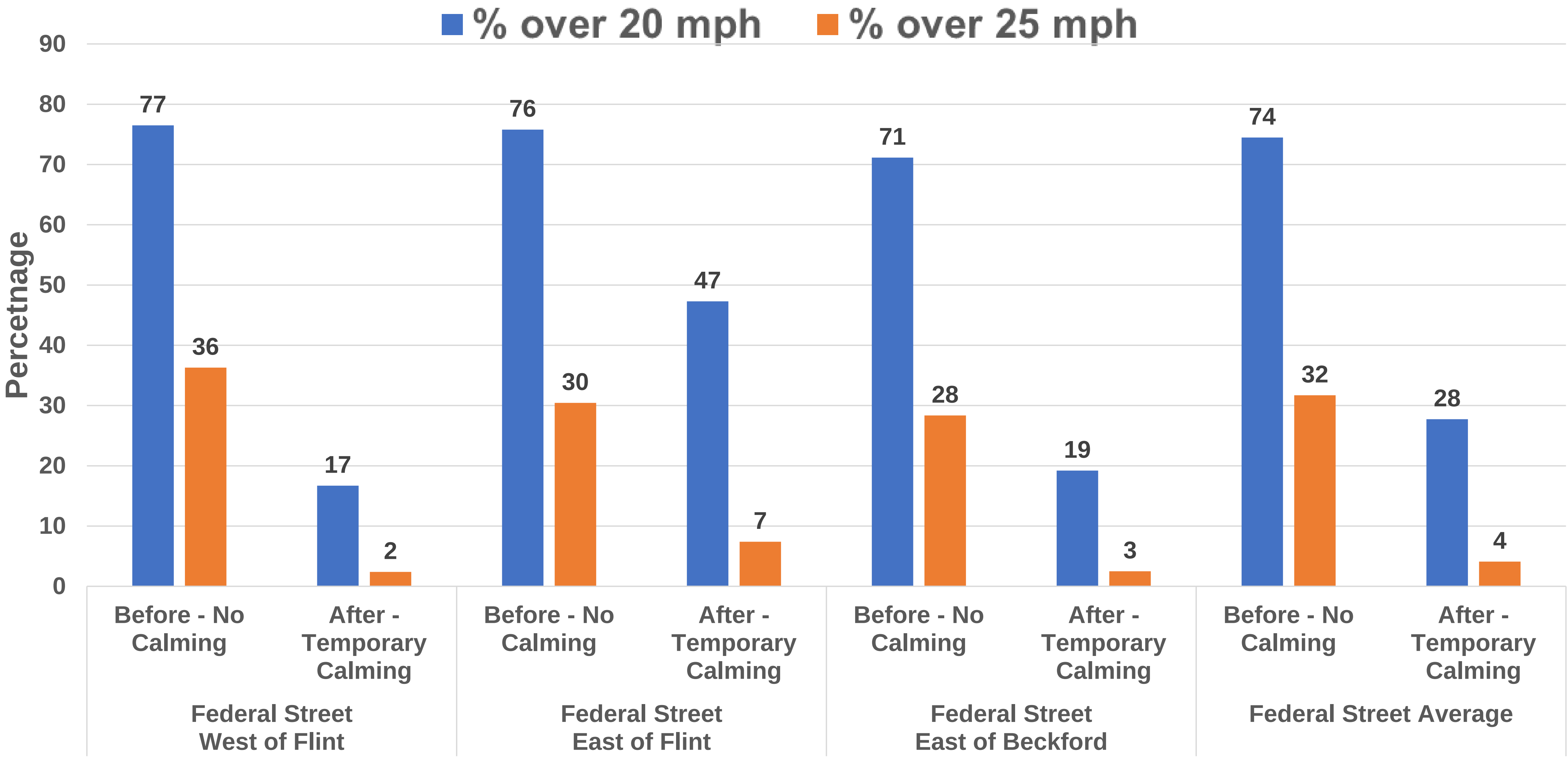
2021 Before



2022 Pilot

ONE WAY
DO NOT ENTER

Federal Street Data



Federal Street Data Average

After traffic calming treatments:

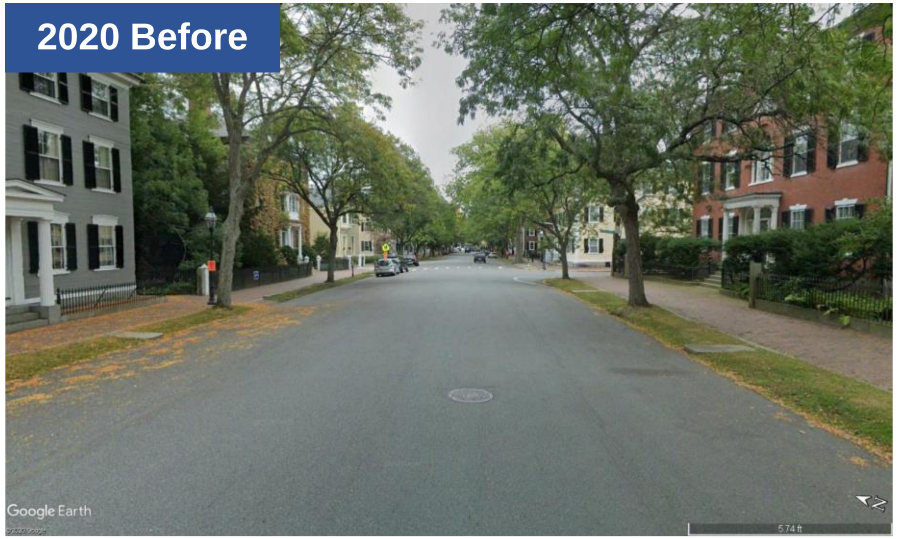
- Average speeds = **19mph (- 21%)**
- Driving over 40mph **= 0.02% (- 93%)**
- ADT = 1,347 vehicles per day **(+35%)**

***after data collected in October**

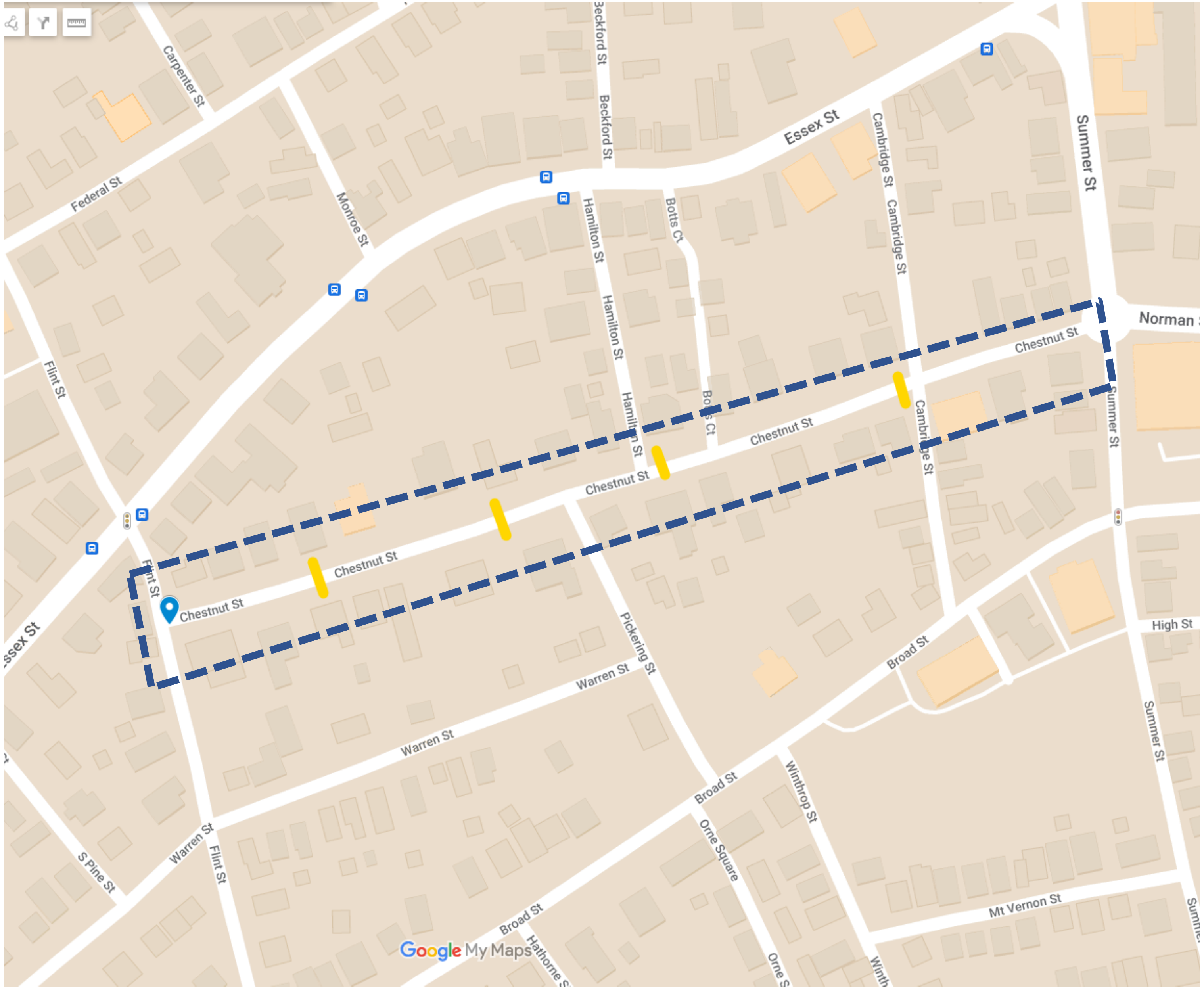
Posted Speed Limit
20mph

Chestnut Street

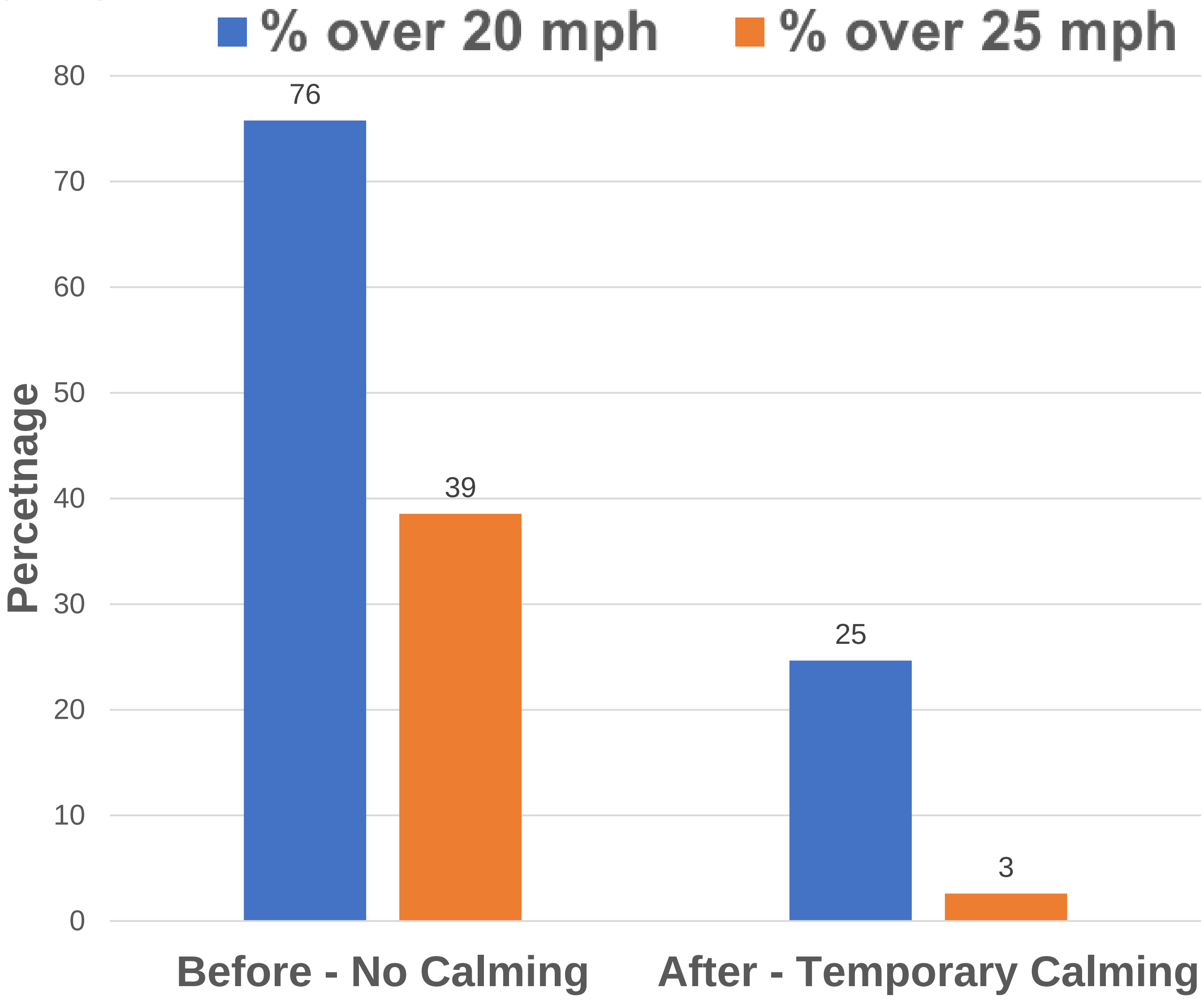
2020 Before


Google Earth

2020 Pilot


Carpenter St
Federal St
Monroe St
Beckford St
Essex St
Hamilton St
Botts Ct
Cambridge St
Summer St
Norman St
Chestnut St
Flint St
Pickering St
Warren St
Broad St
High St
Winthrop St
Orne Square
Mt Vernon St
S Pine St
Hathorne St
Google My Maps

Chestnut Street Data

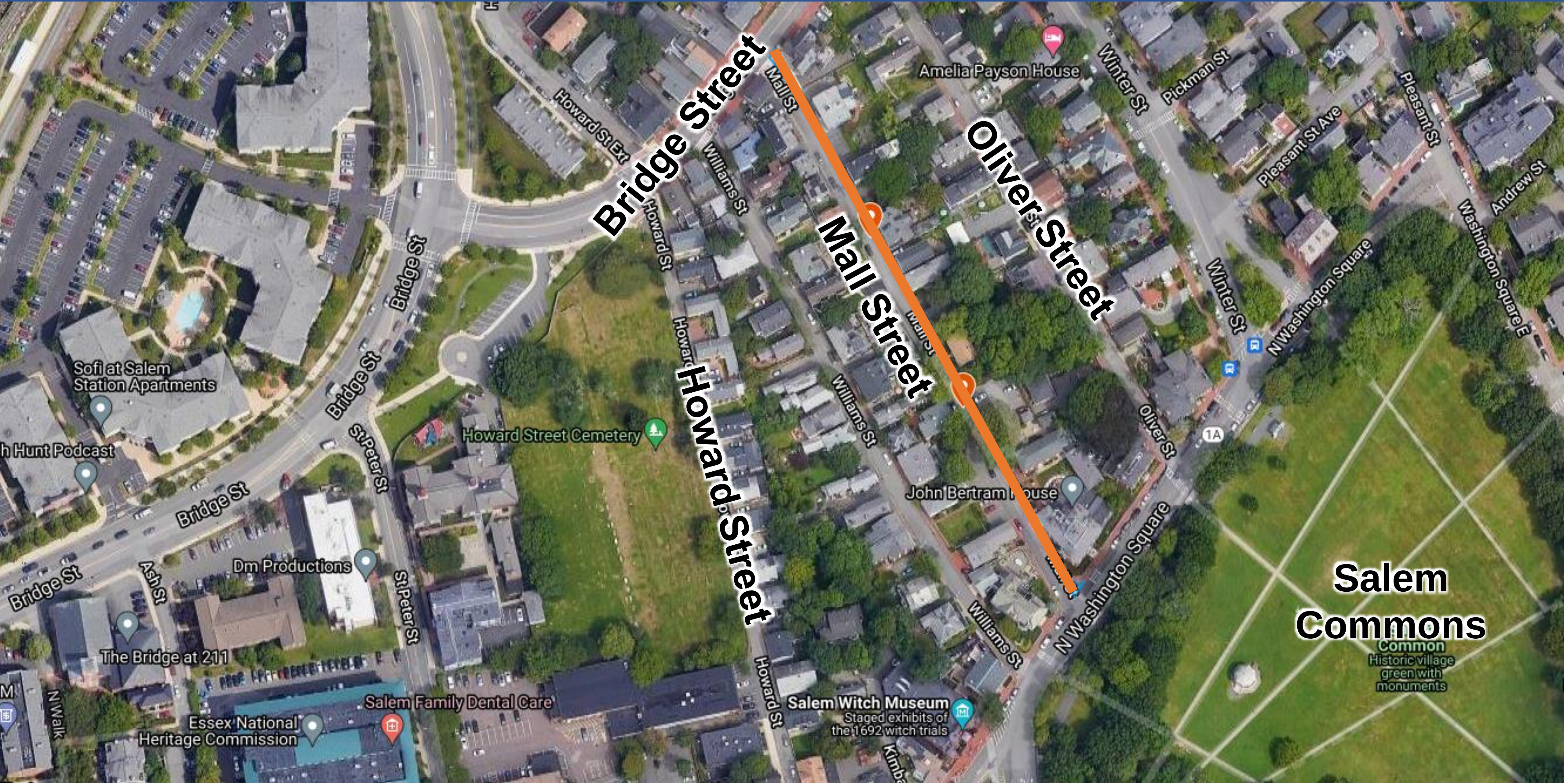


Chestnut Street Data

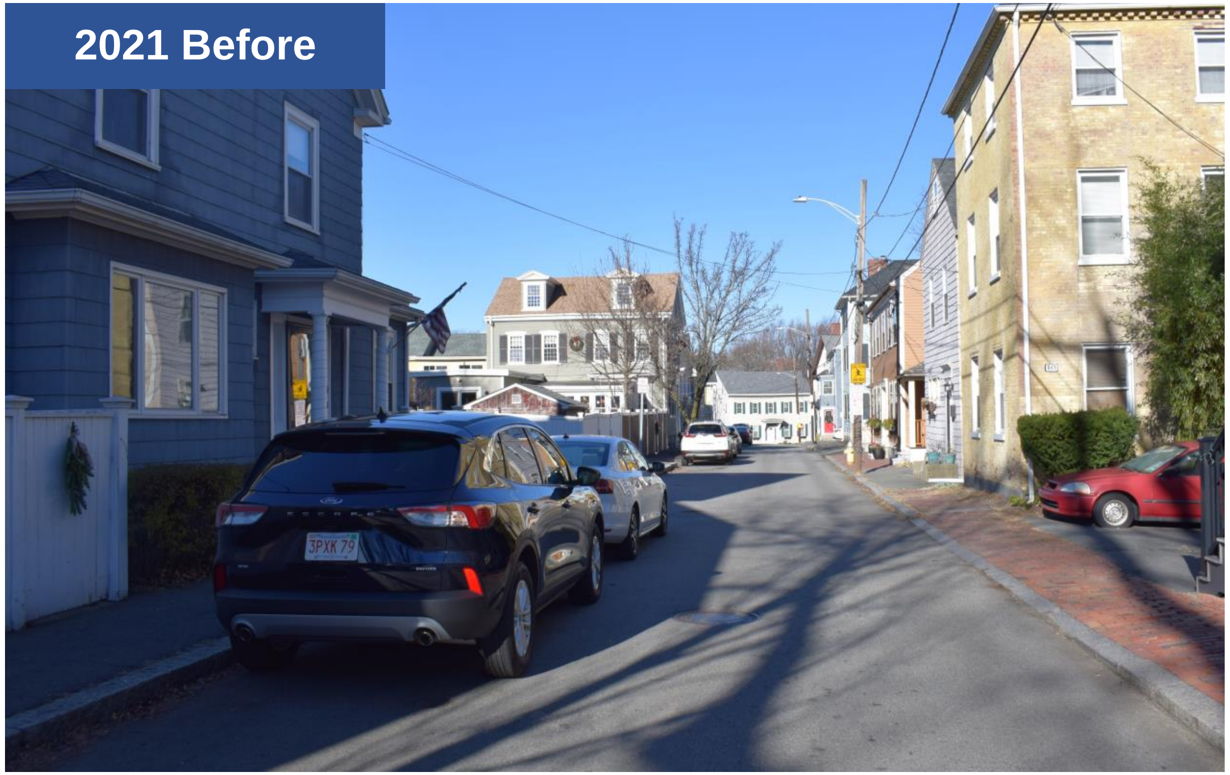
After traffic calming treatments:

- Average speeds = **18 mph (- 27%)**
- Driving over 40mph **= 0% (-100%)**
- ADT = 1,172 vehicles per day **(-23%)**

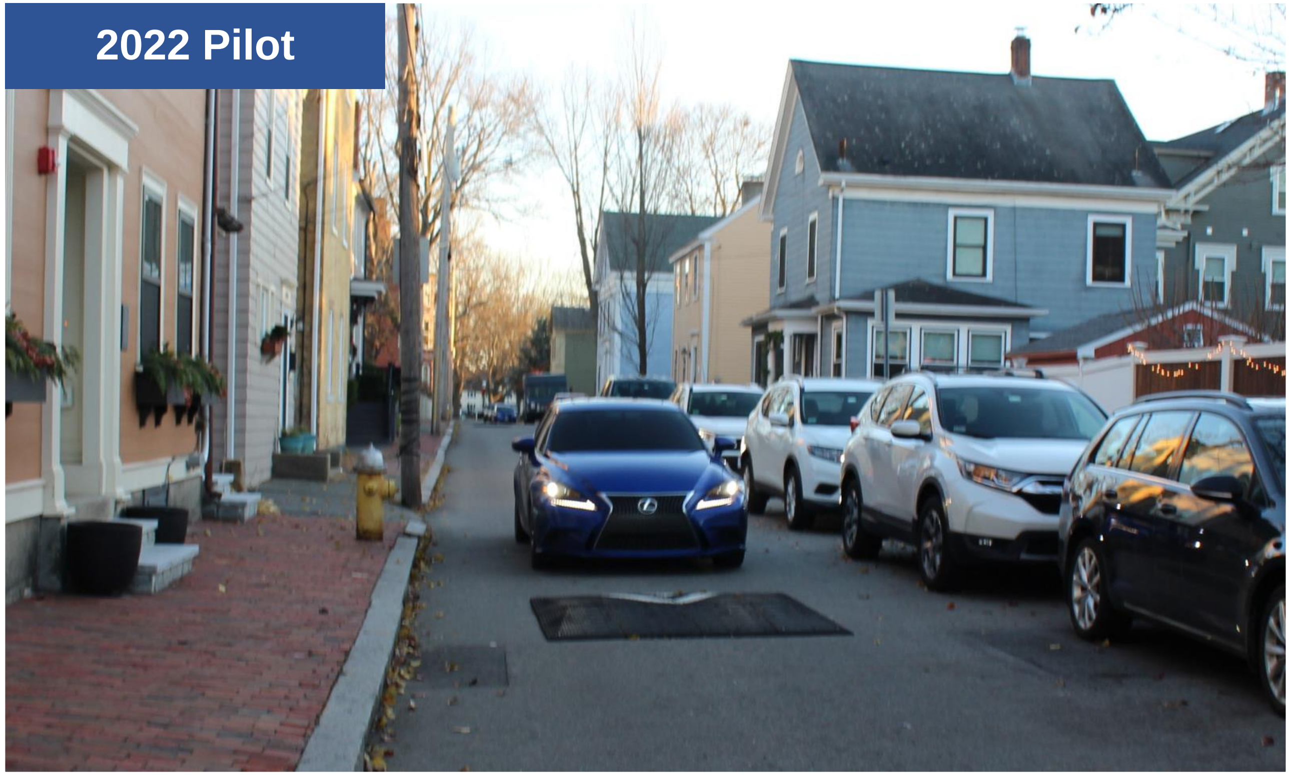
Mall Street: N Wash Sq to Bridge St (0.14mi)


Bridge Street
Mall Street
Oliver Street
Howard Street
Salem Commons
Mall St
Howard St Ext
Williams St
Howard St
Amelia Payson House
Winter St
Pickman St
Pleasant St
Pleasant St Ave
Andrew St
Washington Square E
N Washington Square
Oliver St
1A
John Bertram House
Howard Street Cemetery
Bridge St
St Peter St
Sofi at Salem Station Apartments
h Hunt Podcast
Dm Productions
Ash St
The Bridge at 211
Salem Family Dental Care
Essex National Heritage Commission
N Walk
Salem Witch Museum
Staged exhibits of the 1692 witch trials
Kimb
Common
Historic village green with monuments

Mall Street Pilot

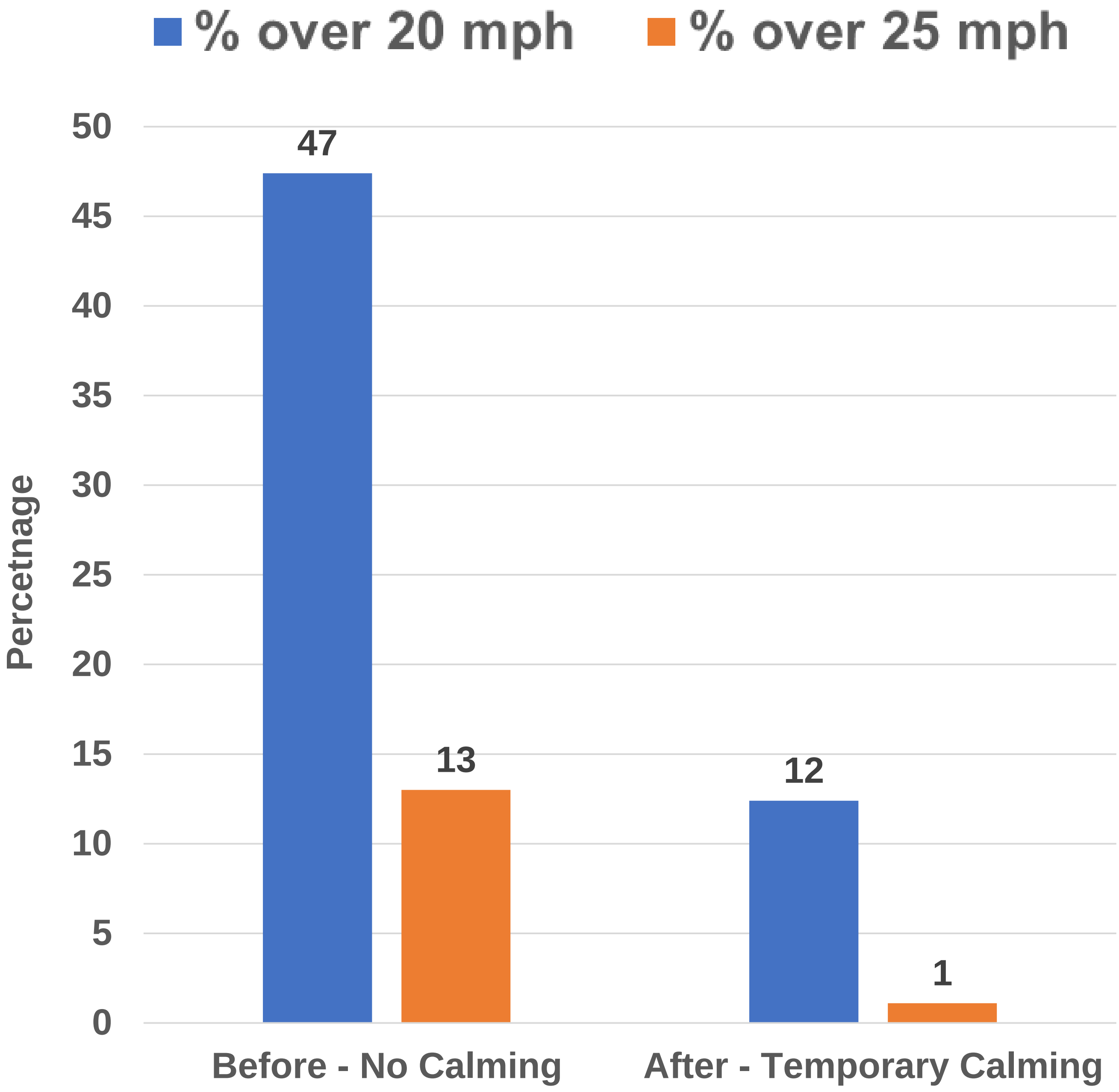


2021 Before



2022 Pilot

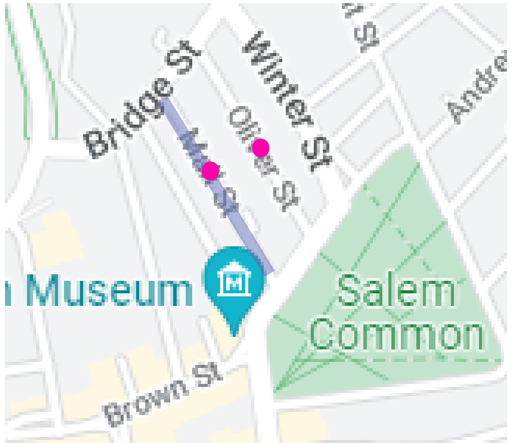
Mall Street Data



Mall Street Data

After traffic calming treatments:

- Average speeds = **17 mph (- 15%)**
- Driving over 40mph **= 0%**
- Mall St ADT = 420 vehicles per day (+68%)
- Oliver St ADT = 140 vehicles per day (+37%)

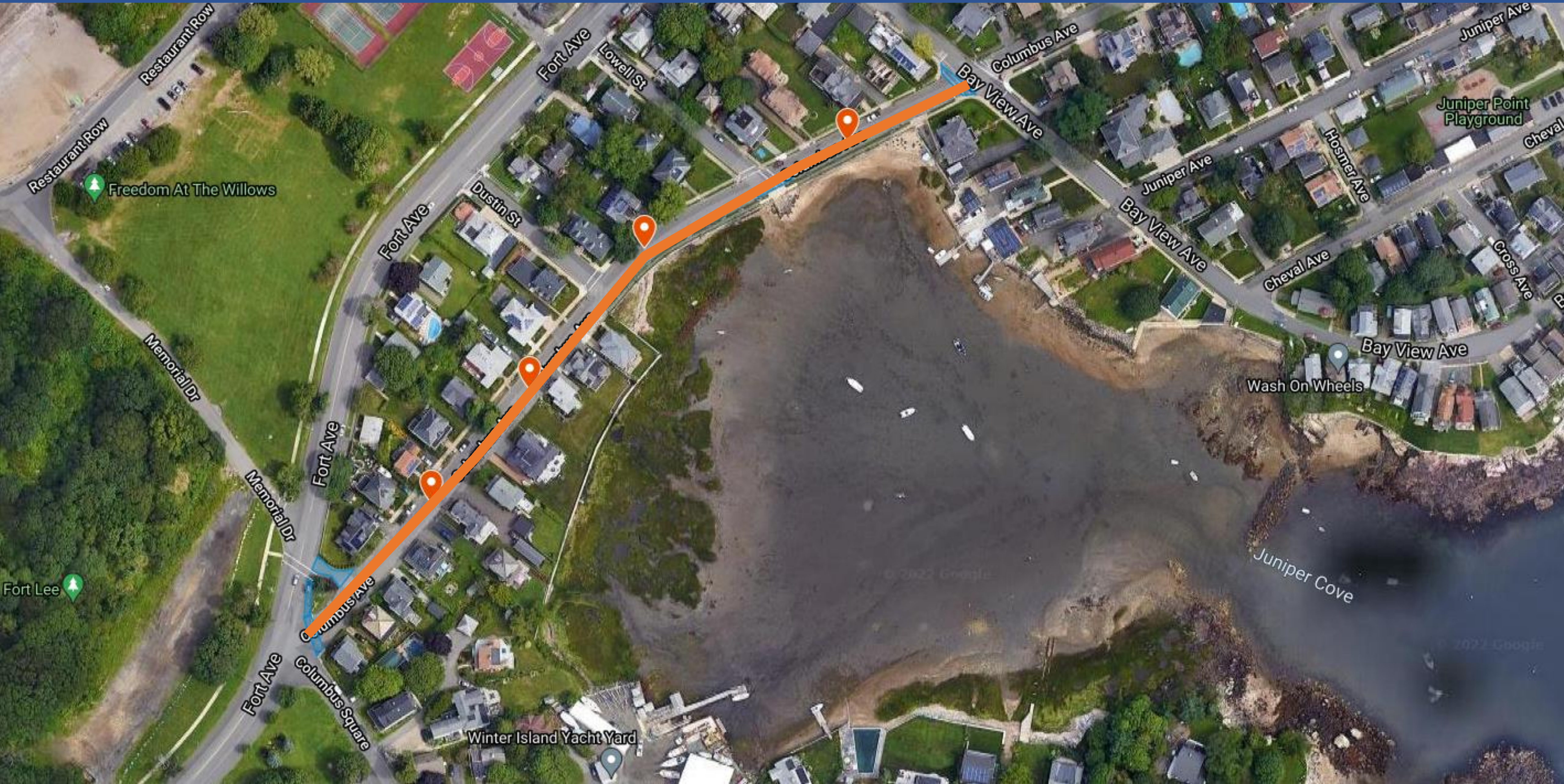

Bridge St
Winter St
Oliver St
Mall St
Museum
Salem Common
Brown St

***Data collected**

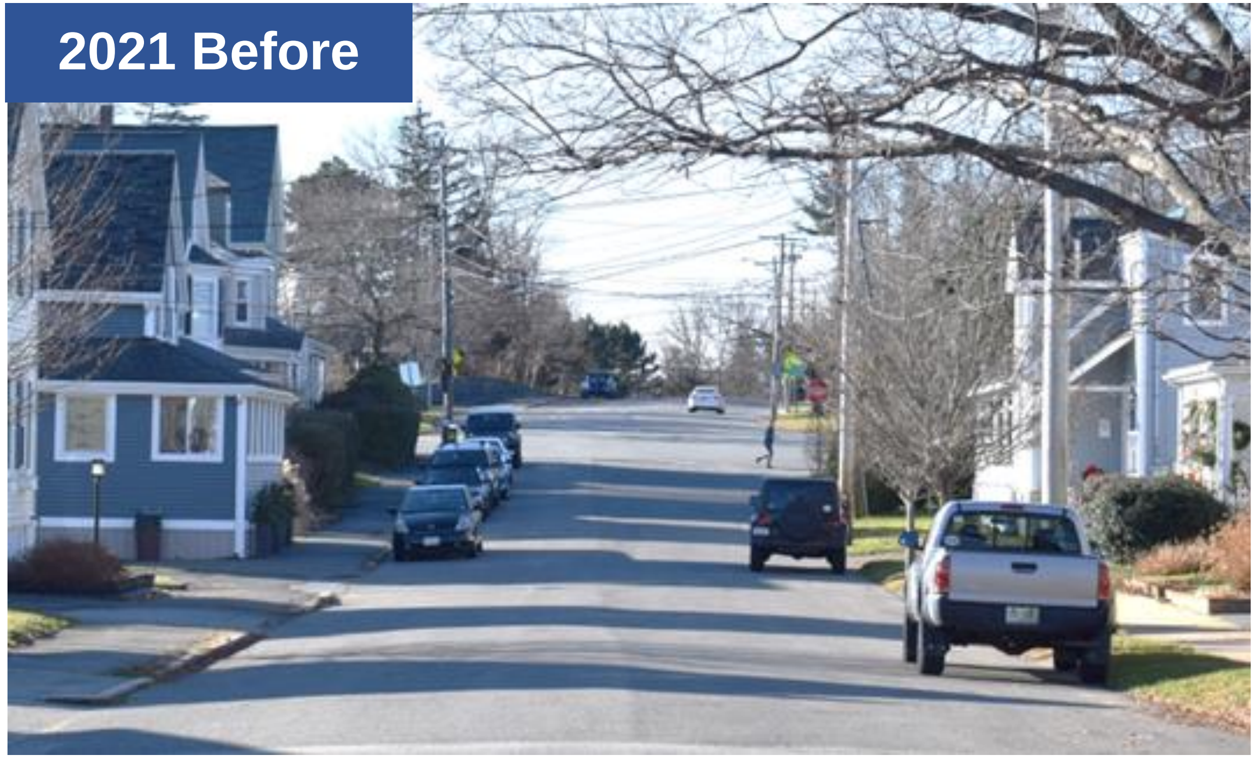
Before = March / April

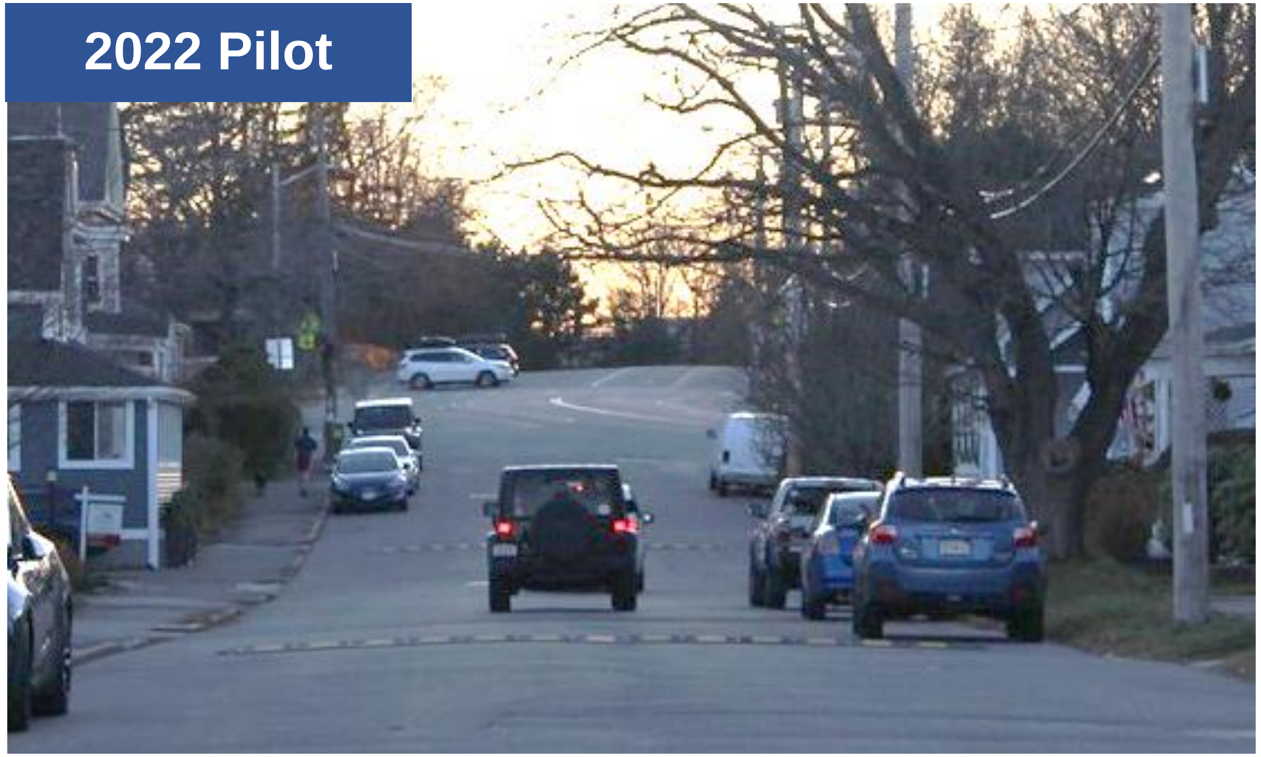
After = July

Columbus Ave: Fort Ave to Bayview Ave (0.22mi)

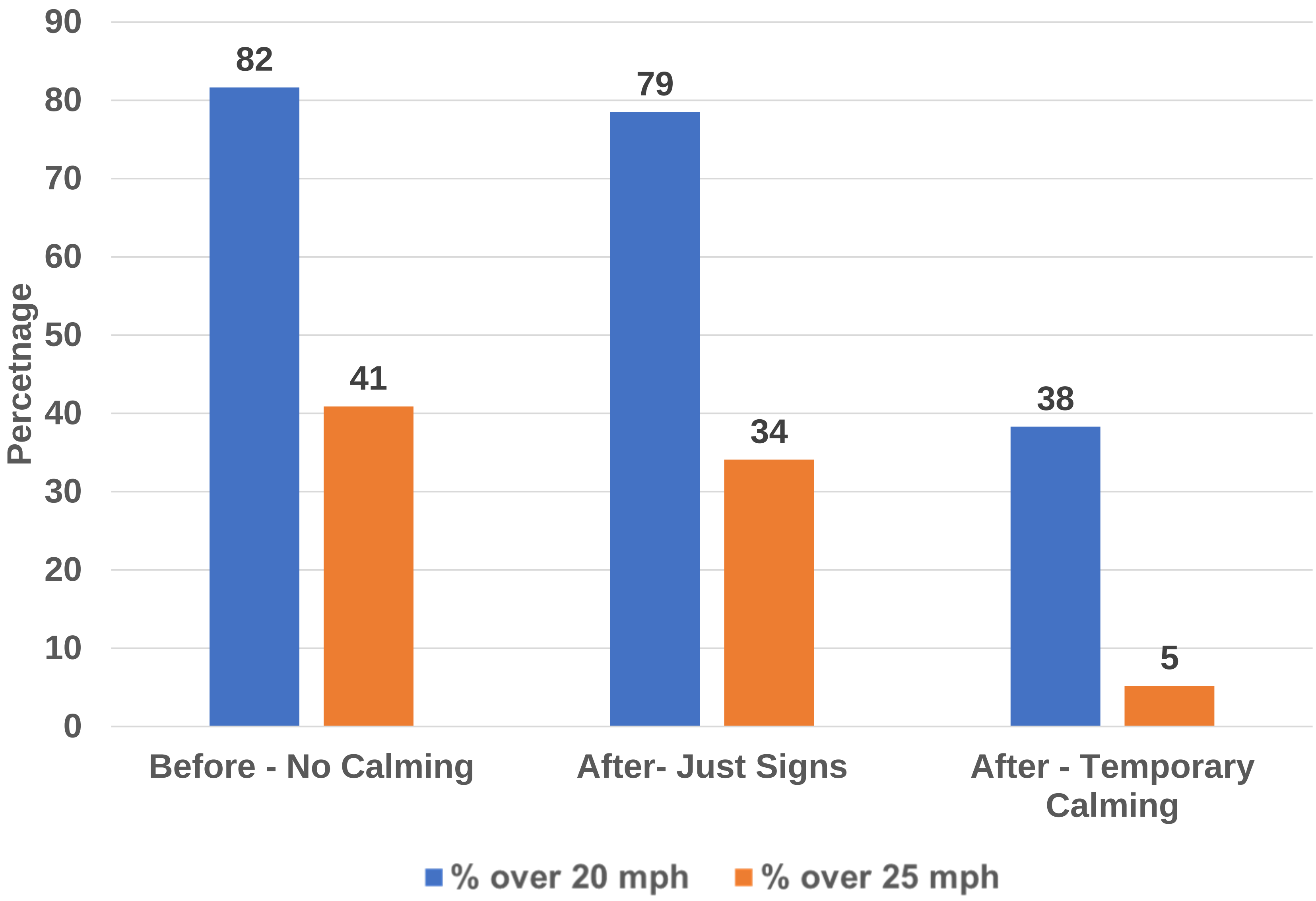

Restaurant Row
Restaurant Row
Freedom At The Willows
Fort Ave
Lowell St
Columbus Ave
Bay View Ave
Juniper Ave
Juniper Point Playground
Cheval
Hosmer Ave
Dustin St
Fort Ave
Bay View Ave
Cheval Ave
Cross Ave
Memorial Dr
Memorial Dr
Fort Ave
Bay View Ave
Wash On Wheels
Fort Lee
Columbus Ave
Fort Ave
Columbus Square
Juniper Cove
Winter Island Yacht Yard

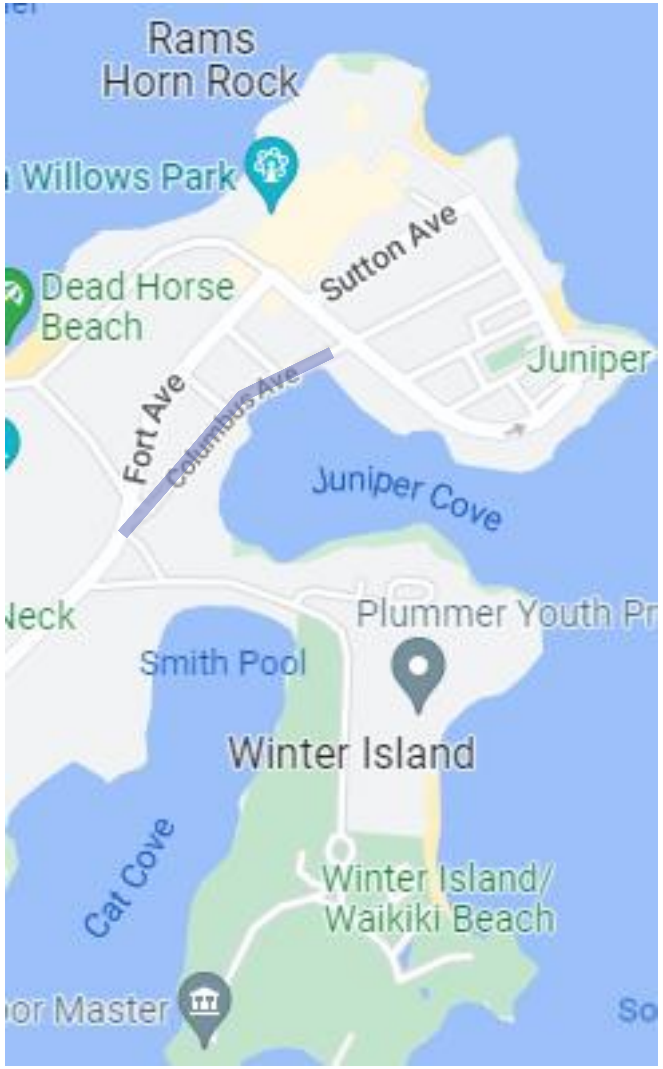
Columbus Avenue Pilot


2021 Before


2022 Pilot

Columbus Avenue Data



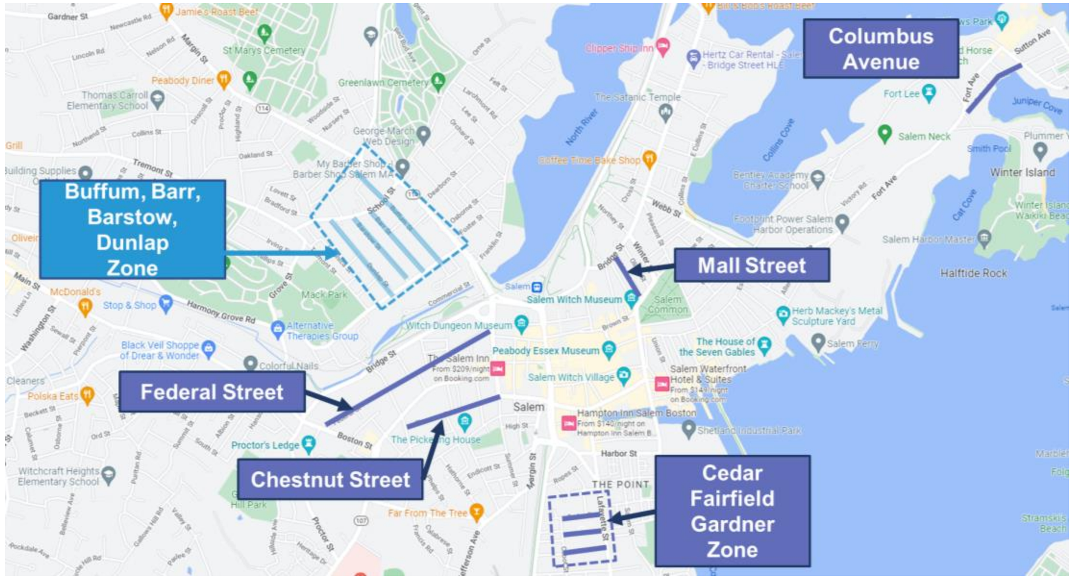

Rams Horn Rock
Willows Park
Dead Horse Beach
Sutton Ave
Juniper
Fort Ave
Columbus Ave
Juniper Cove
Plummer Youth Pr
Smith Pool
Winter Island
Cat Cove
Winter Island/ Waikiki Beach
or Master

Columbus Avenue Data

After traffic calming treatments:

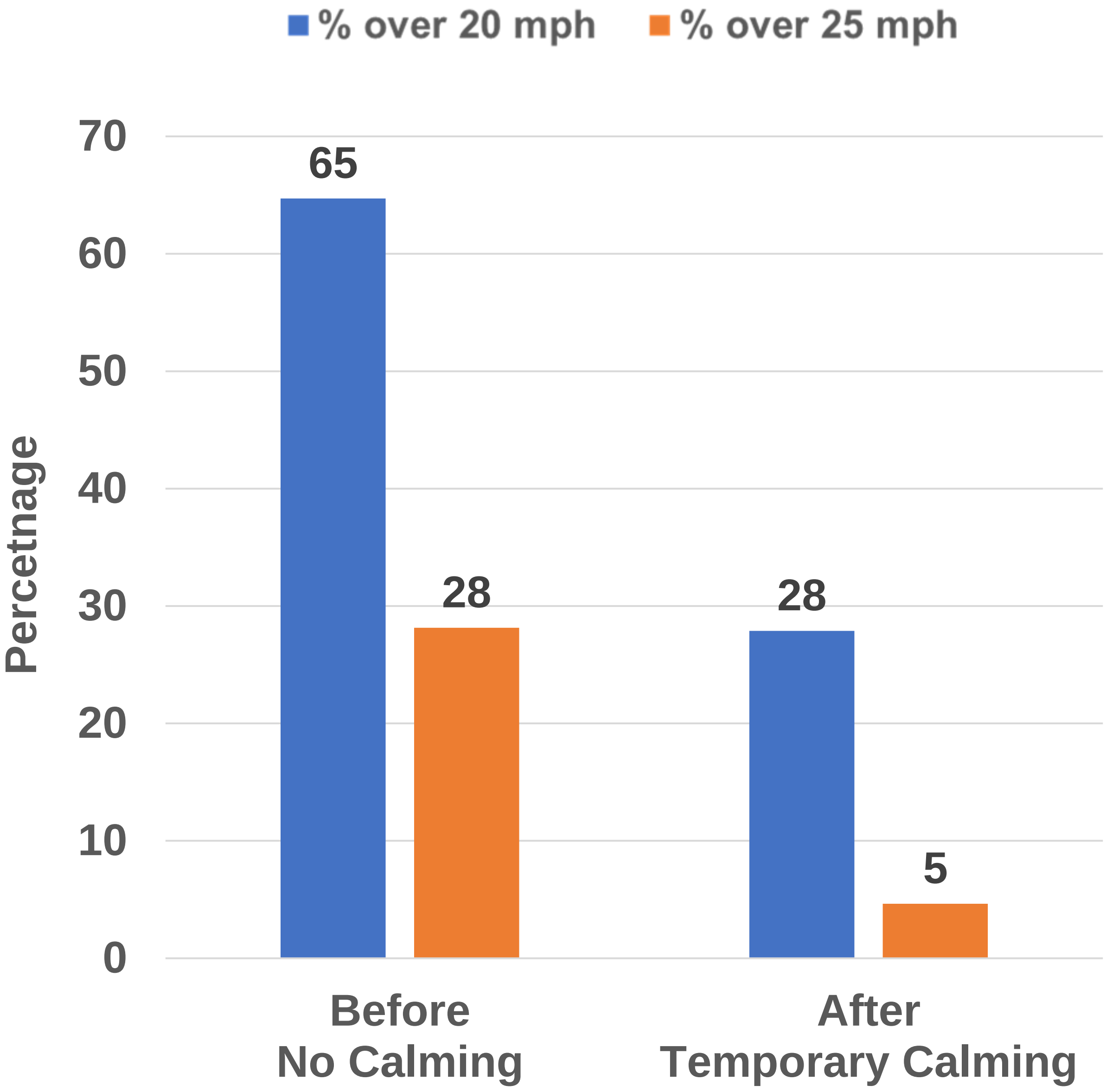
- Average speeds = **20mph (-18%)**
- Driving over 40mph **= 0.03% (- 92%)**
- ADT = **598 vehicles per day (-33%)**

2022 Local Road Data

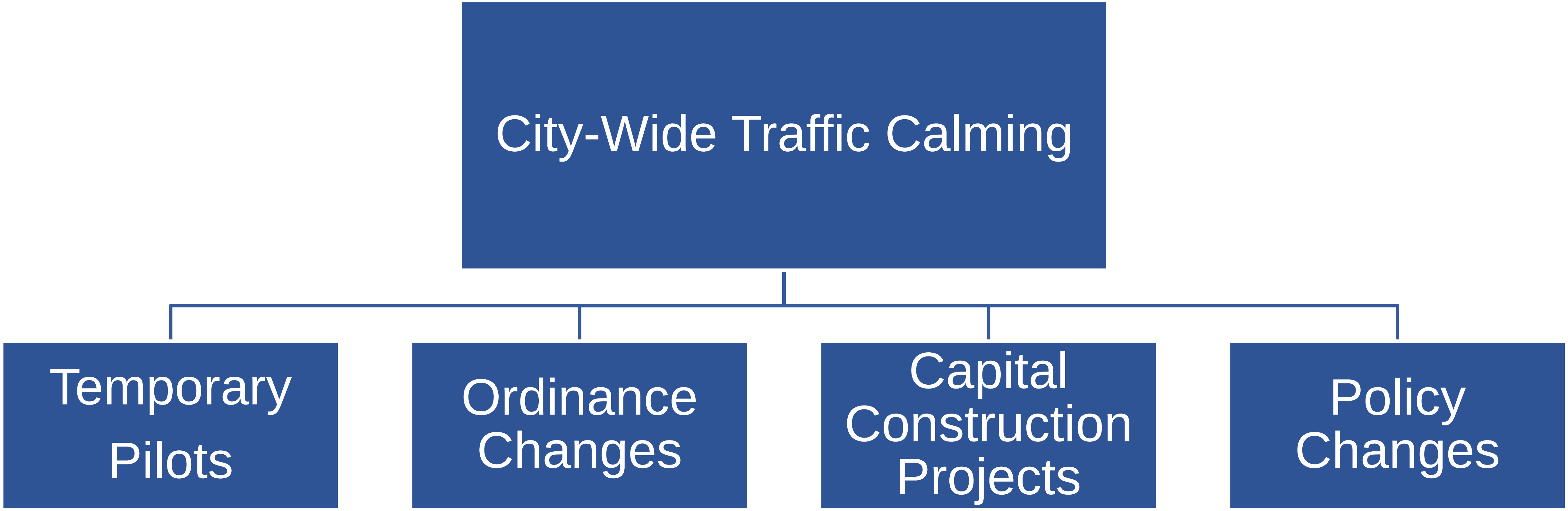

Columbus Avenue
Buffum, Barr, Barstow, Dunlap Zone
Mall Street
Federal Street
Chestnut Street
Cedar Fairfield Gardner Zone

After traffic calming treatments:

- Average speeds = **19 mph (-18%)**
- Driving over 40mph **= 0.04% (- 87%)**
- ADT = **721 vehicles per day (+4%)**



Program Vision



- City-Wide Traffic Calming
  - Temporary Pilots
  - Ordinance Changes
  - Capital Construction Projects
  - Policy Changes

Lessons Learned

- Installation and procurement challenges
- Expand capacity
  - DPS support
  - On-call contractors
- Continue engagement
- Equity prioritization

SAFETY ZONE
SPEED LIMIT
20
SLOW

Next Steps

Winter 2022

- Finish removal of temporary and update inventory
- Program and data evaluation – pilot to permanent
- Feedback survey open through Feb 15th
- 2023 prioritization plan - design and planning

Spring - Fall 2023

- Install temporary pilots
- Install permanent - Cedar, Fairfield, Gardner zone
- Collect and monitor data and feedback

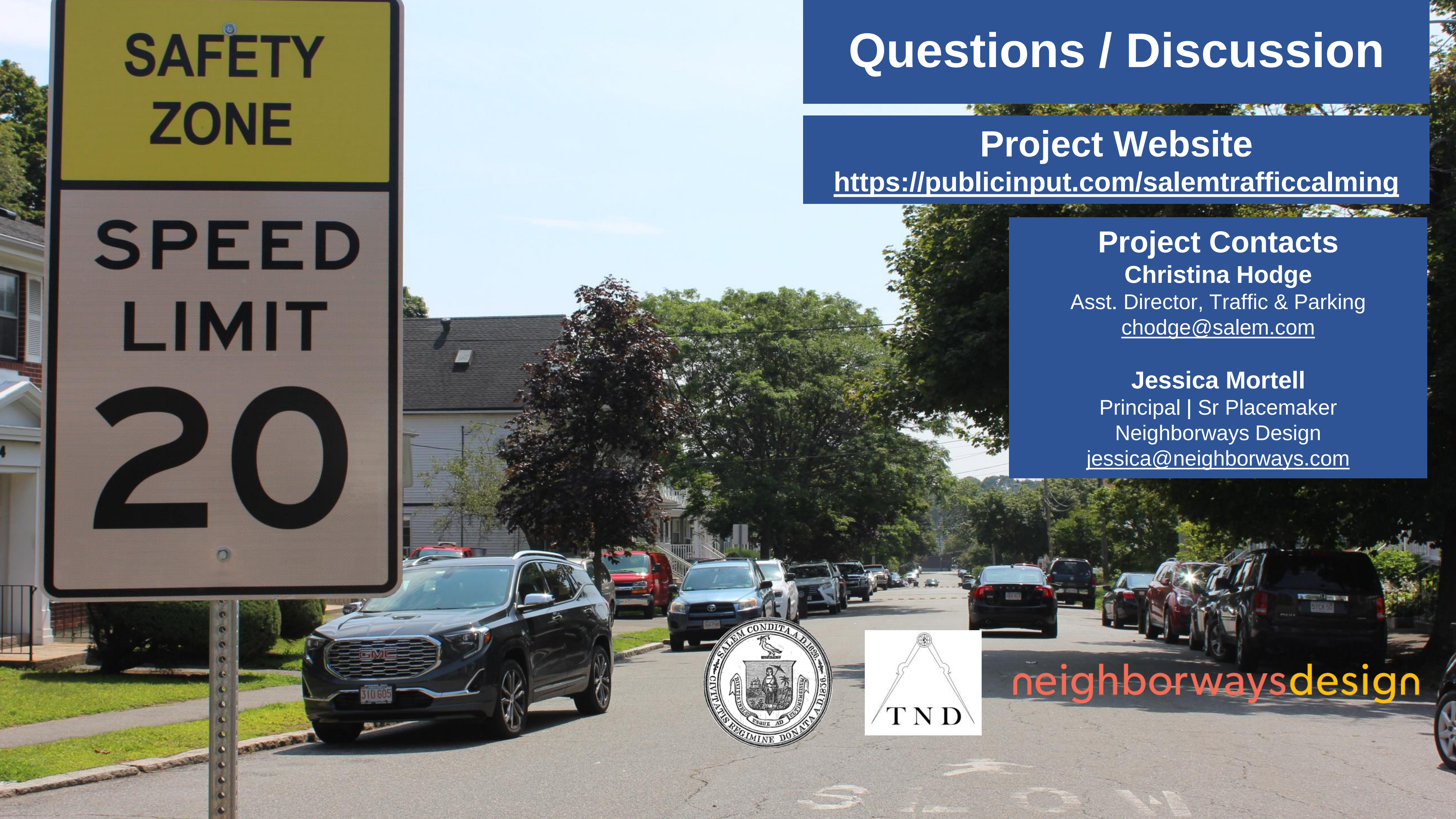
Winter 2023

- Remove temporary and update inventory
- Program and data re-evaluation

Program Feedback Survey

- Program Survey Live!
- www.publicinput.com/salemtrafficcalming#1
- Open until Feb 15th 2023

Questions / Discussion



Project Website

https://publicinput.com/salemtrafficcalming

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