

# Route 88 Town Landing Road Johnson Road Intersection Study



Background and History of the Intersection



MEDOT's Traffic Calming and Speed Limit Setting Process



Route 88  
Demonstration Project

Project Summary  
Data Collected  
Public Survey Results



Options Going Forward

# History of Intersection

Beginning in 2019, the Town Council met and discussed this intersection on 6 separate occasions. Additionally, two public forums were held. These meetings focused on the following:

- Identify safety concerns.
- Develop a comprehensive list of potential solutions to help make the area safer.
- Solicit feedback from the public.
- Prioritize most beneficial and cost-effective solutions.
- Allocate funding to implement selected safety improvements.
- Construct selected safety improvements.

# MaineDOT's Traffic Calming and Speed Limit Setting Process

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- “Old” Methodology – Conduct speed study, review 85% speed, visit site, assign appropriate speed limit.
- “New” Methodology – Based on research detailing how roadway influences driver behavior. According to MaineDOT...
  - ...The Department has a desire to gain voluntary speed compliance by posting speed limits that align with road user expectations.
  - ...Changing a speed limit sign alone does not significantly impact vehicle speeds.
  - ...In many cases, speed management measures need to be implemented in conjunction with lowering the speed limit.
  - ...MaineDOT is developing a toolbox of lower-cost options to help encourage drivers to reduce speed.




# Roadway Context Classification System


Established in 2024 by Maine DOT to identify the current context of a roadway based on many factors, including density and nature of the built environment around the road.

Five unique contexts typically found in Maine:



 **Mobility** Not expected to have many active transportation users. Efficient and reliable travel will get a higher priority.

 **Balanced** These roads are challenging for planners and engineers. The process will balance mobility with active transportation needs.

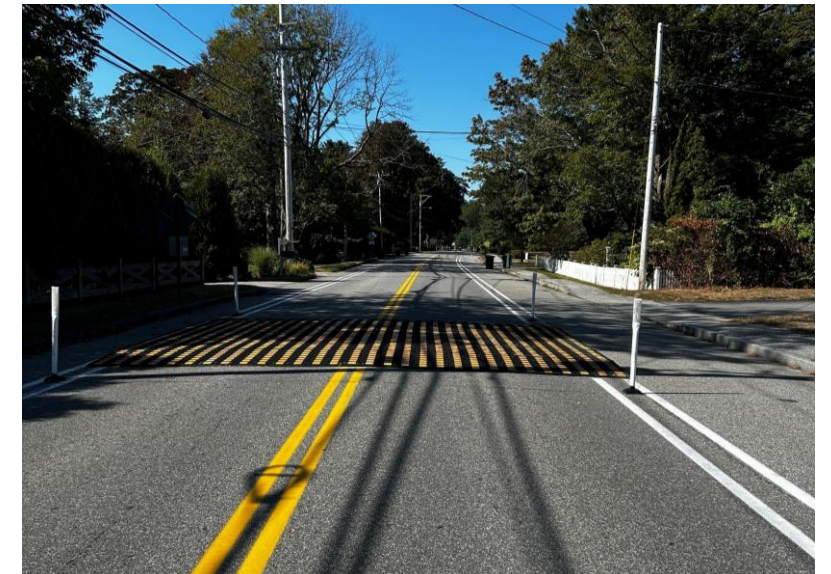
 **All Users** Greatly consider pedestrian and cyclist needs in these areas

MaineDOT Three Speed Limit Processes Explained





General example of traffic calming measures.









SPEED LIMIT 35 R2-1  
 YOUR SPEED XX W13-20aP

Retain Existing Speed Limit Sign and Speed Feedback Sign

ROUTE 88

CASCO TERRACE

Taper Back to Existing Width Over 100 Feet

Tubular Markers

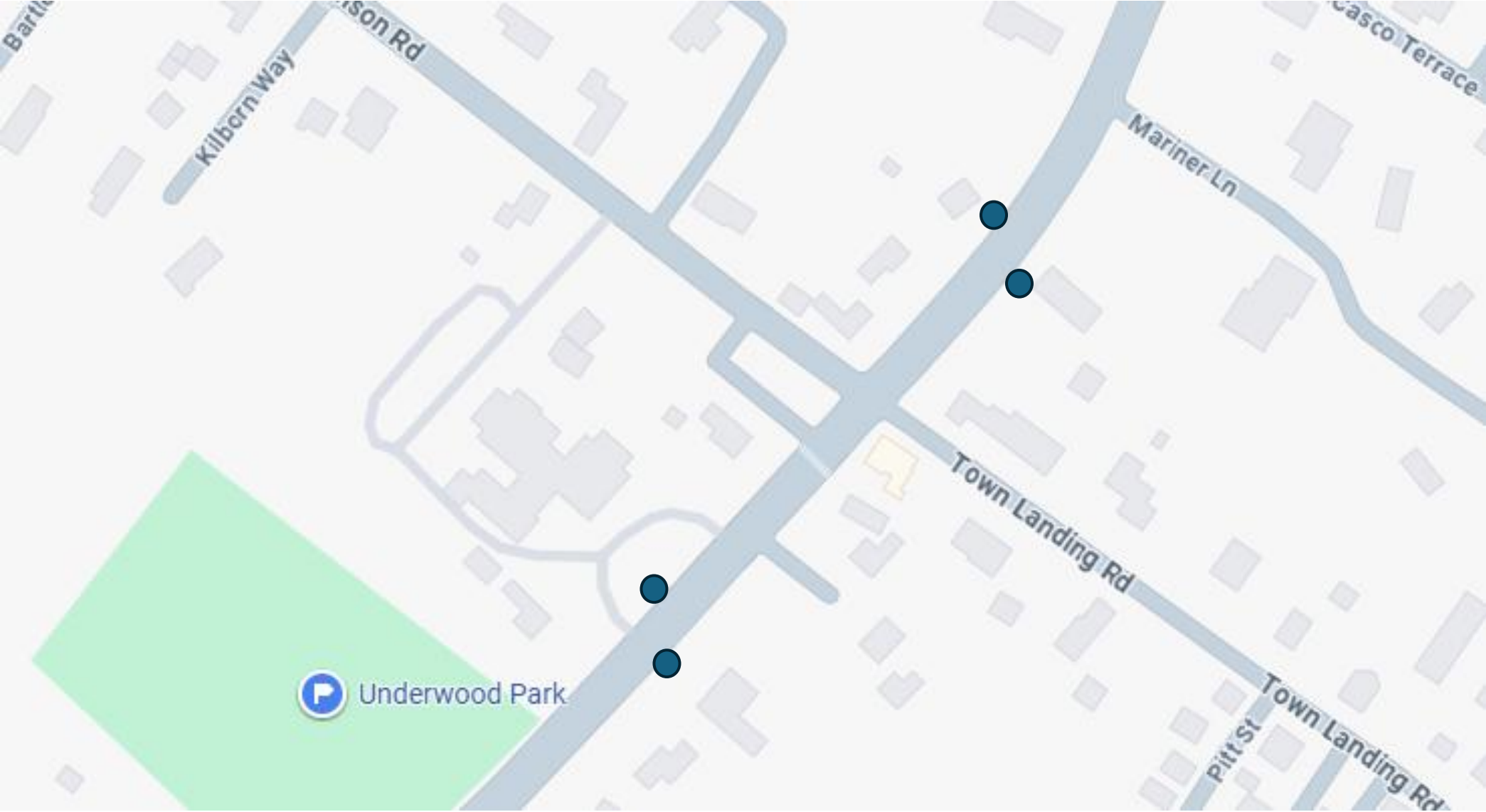
TOWN OF FALMOUTH

DATE	BY
DESIGNED BY	CHECKED BY
PROJECT NUMBER	DATE

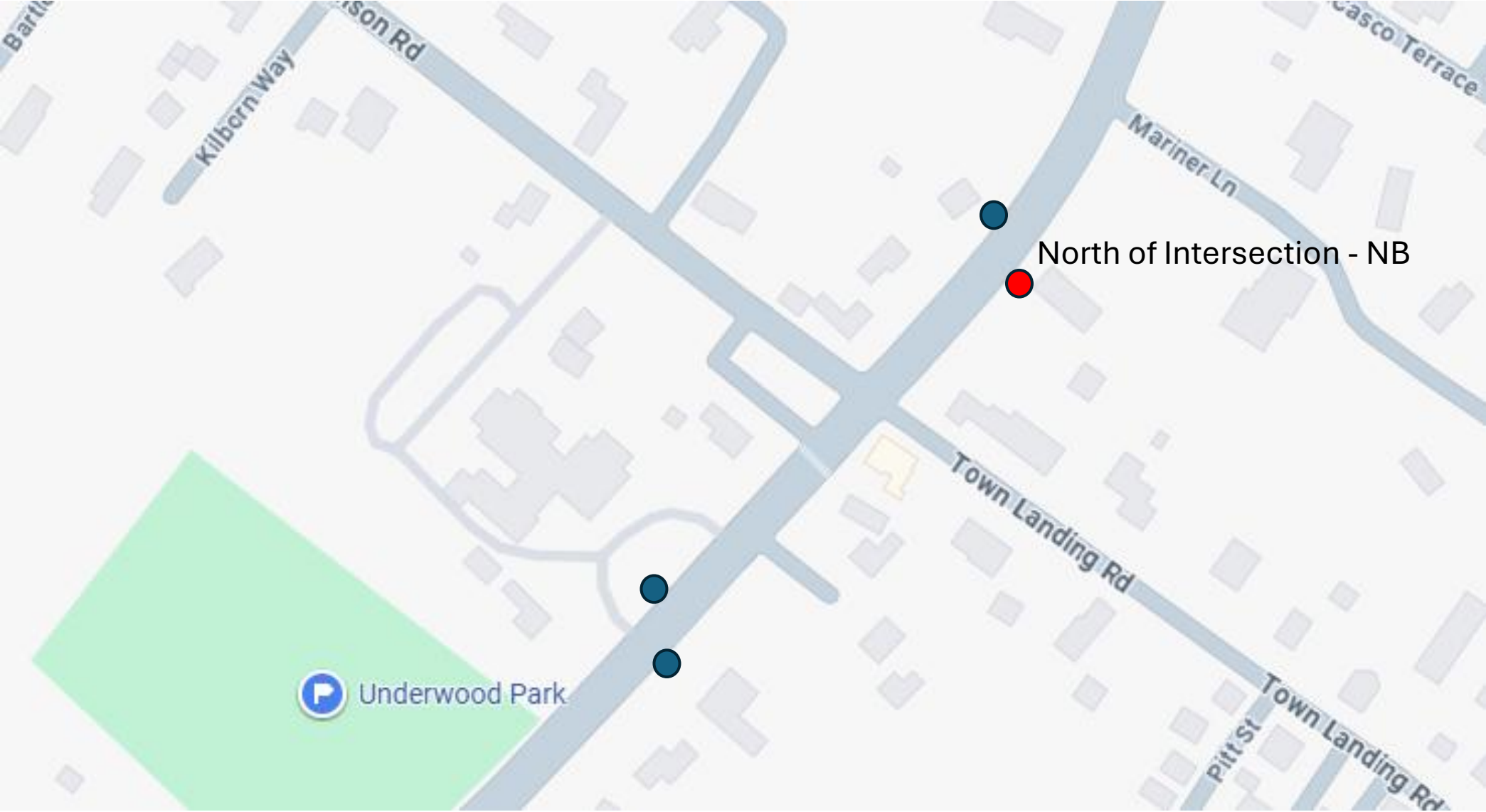
FALMOUTH ROUTE 88 DEMONSTRATION PROJECT PLAN

SHEET NUMBER 3 OF 3

# Speed Collection Locations



# Speed Collection Locations



# PRE Traffic Calming Installation



## Extended Speed Summary Foreside Road @ Town Landing (North of Johnson Rd), NB

Start: 2025-07-01  
End: 2025-07-09  
Times: 0:00:00-23:59:59

Violation Threshold: Speed Limit + 10  
Speed Range: 1 to 150

### Overall Summary

Total Days of Data: 9	Minimum Speed: 10
Speed Limit: 35	Maximum Speed: 53
Average Speed: 26.78	Display Mode: Daily Schedule
50th Percentile Speed: 28.11	Average Volume per Day: 4460.7
85th Percentile Speed: 32.67	Total Volume: 40146
Pace Speed Range: 24-34	



Average Speed 26.78MPH / 85% Speed 32.67MPH

# POST Traffic Calming Installation



## Extended Speed Summary Foreside Road @ Town Landing (North of Johnson Rd), NB

Start: 2025-08-20  
End: 2025-09-01  
Times: 0:00:00-23:59:59

Violation Threshold: Speed Limit + 10  
Speed Range: 1 to 150

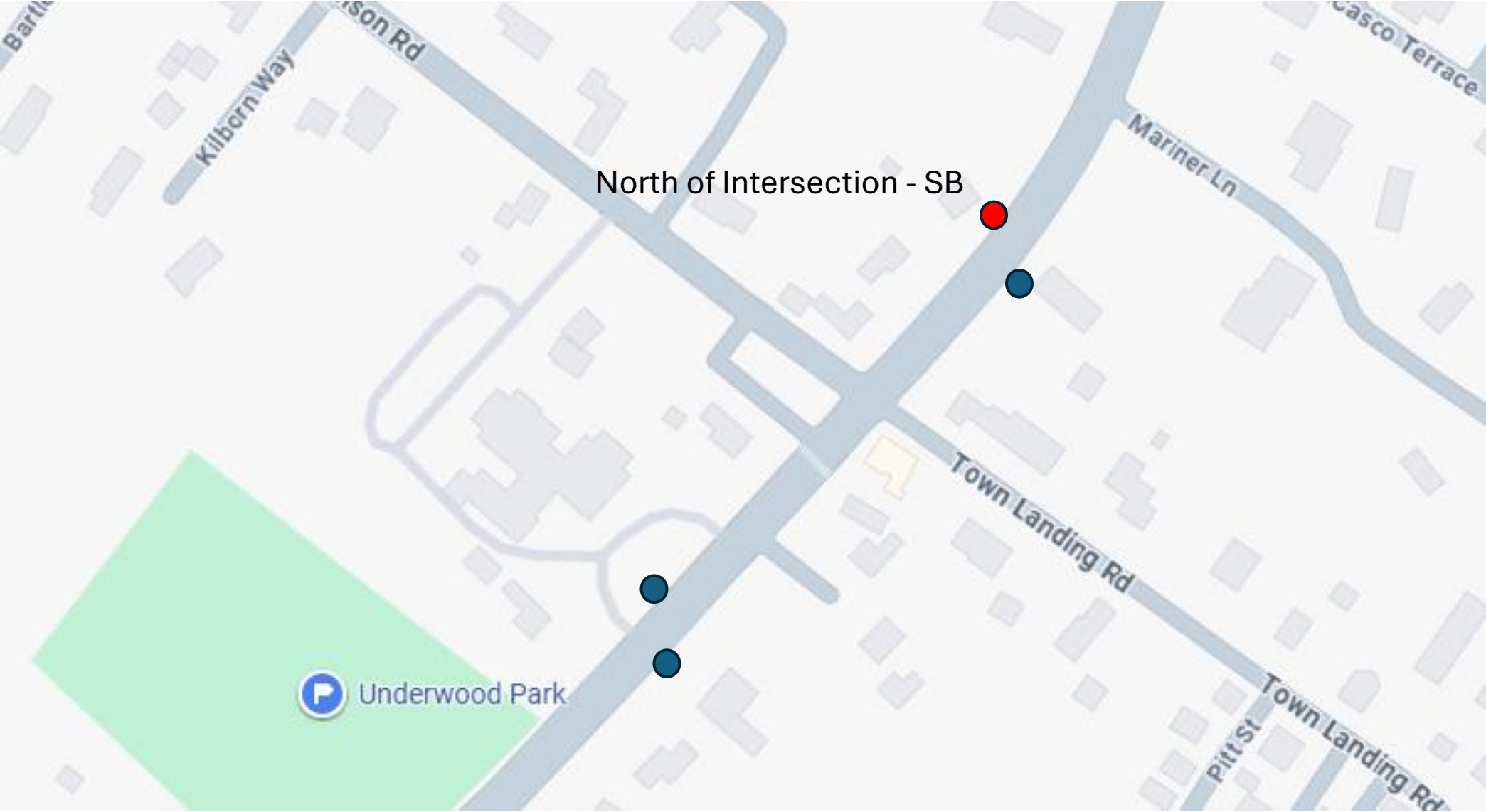
### Overall Summary

Total Days of Data: 13	Minimum Speed: 10
Speed Limit: 35	Maximum Speed: 42
Average Speed: 19.53	Display Mode: Daily Schedule, Display Off
50th Percentile Speed: 19.87	Average Volume per Day: 5198.6
85th Percentile Speed: 24.67	Total Volume: 67582
Pace Speed Range: 15-25	



Average Speed 19.53MPH / 85% Speed 24.67MPH

# Speed Collection Locations



# PRE Traffic Calming Installation



## Extended Speed Summary

Foreside Road @ Town Landing (North of Johnson Road), SB



Start: 2025-06-12

End: 2025-06-24

Times: 0:00:00-23:59:59

Violation Threshold: Speed Limit + 10

Speed Range: 1 to 150

### Overall Summary

Total Days of Data: 13

Speed Limit: 35

Average Speed: 28.36

50th Percentile Speed: 28.91

85th Percentile Speed: 32.98

Pace Speed Range: 24-34

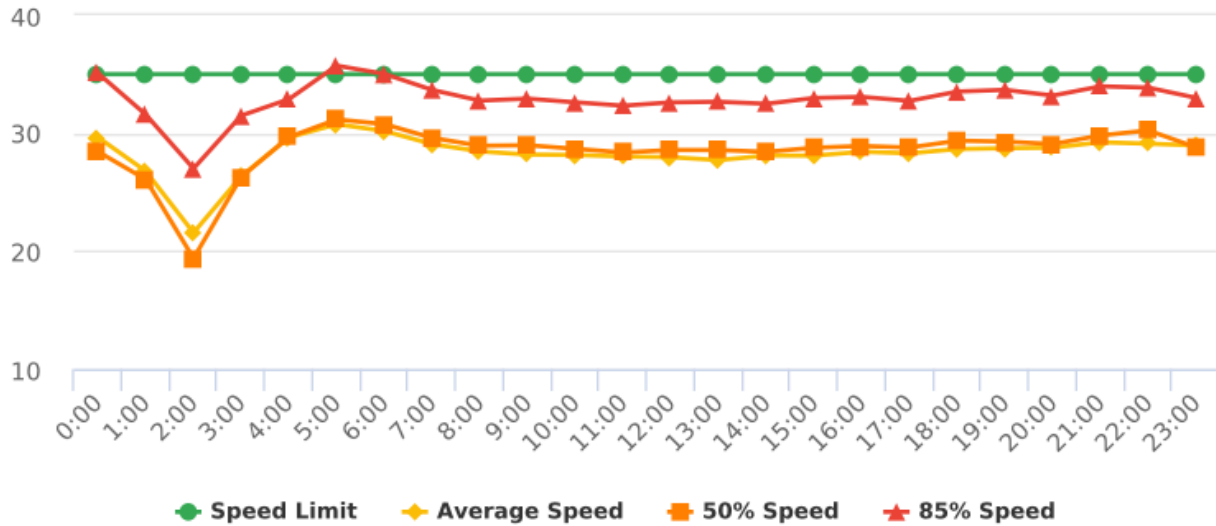
Minimum Speed: 10

Maximum Speed: 58

Display Mode: Daily Schedule

Average Volume per Day: 2316.8

Total Volume: 30119



Average Speed 28.36MPH / 85% Speed 32.98MPH

# POST Traffic Calming Installation



## Extended Speed Summary

Foreside Road @ Town Landing (North of Johnson Road), SB



Start: 2025-09-02

End: 2025-09-15

Times: 0:00:00-23:59:59

Violation Threshold: Speed Limit + 10

Speed Range: 1 to 150

### Overall Summary

Total Days of Data: 14

Speed Limit: 35

Average Speed: 25.86

50th Percentile Speed: 26.15

85th Percentile Speed: 30.52

Pace Speed Range: 22-32

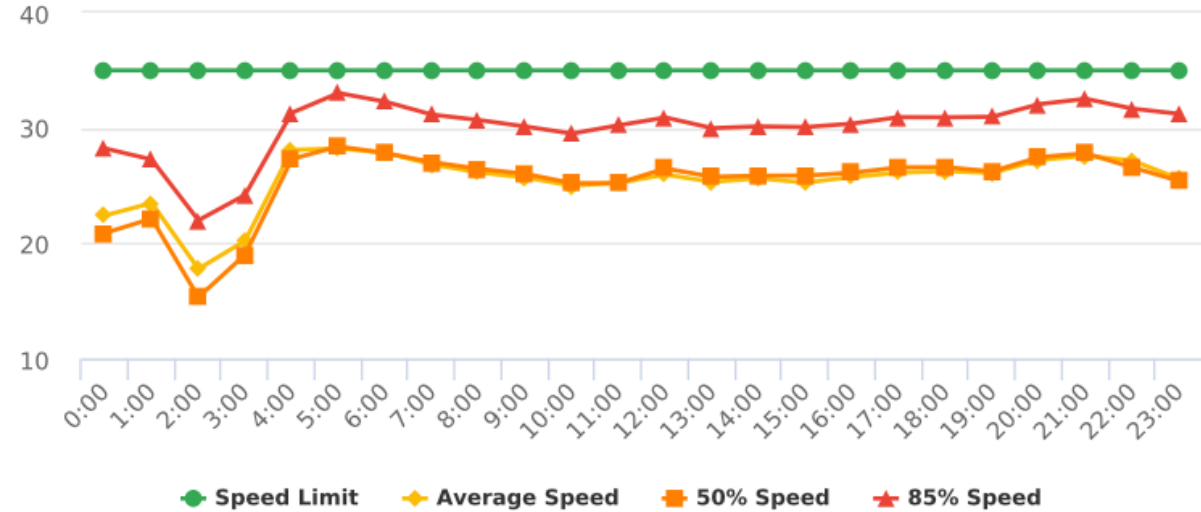
Minimum Speed: 10

Maximum Speed: 47

Display Mode: Display Off

Average Volume per Day: 2254.3

Total Volume: 31560



Average Speed 25.86MPH / 85% Speed 30.52MPH

# Speed Collection Locations



# PRE Traffic Calming Installation



## Extended Speed Summary

Foreside Road @ Town Landing (South of Johnson Road), NB



Start: 2025-07-09  
End: 2025-07-21  
Times: 0:00:00-23:59:59

Violation Threshold: Speed Limit + 10  
Speed Range: 1 to 150

### Overall Summary

Total Days of Data: 13	Minimum Speed: 10
Speed Limit: 35	Maximum Speed: 57
Average Speed: 30.49	Display Mode: Daily Schedule
50th Percentile Speed: 31.21	Average Volume per Day: 3791.1
85th Percentile Speed: 35.26	Total Volume: 49284
Pace Speed Range: 27-37	



Average Speed 30.49MPH / 85% Speed 35.26MPH

# POST Traffic Calming Installation



## Extended Speed Summary

Foreside Road @ Town Landing (South of Johnson Road), NB

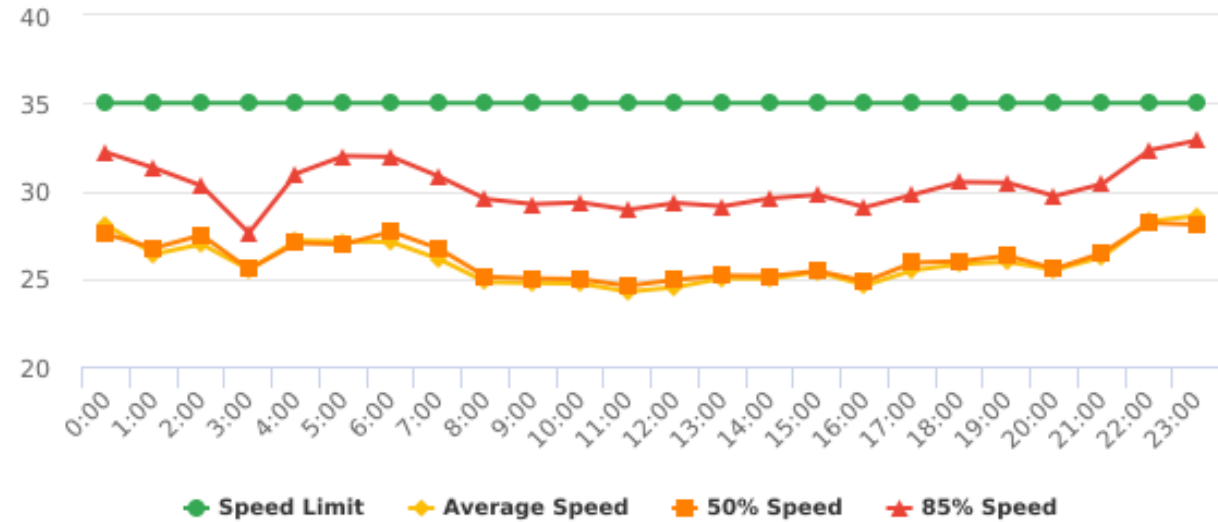


Start: 2025-08-07  
End: 2025-08-19  
Times: 0:00:00-23:59:59

Violation Threshold: Speed Limit + 10  
Speed Range: 1 to 150

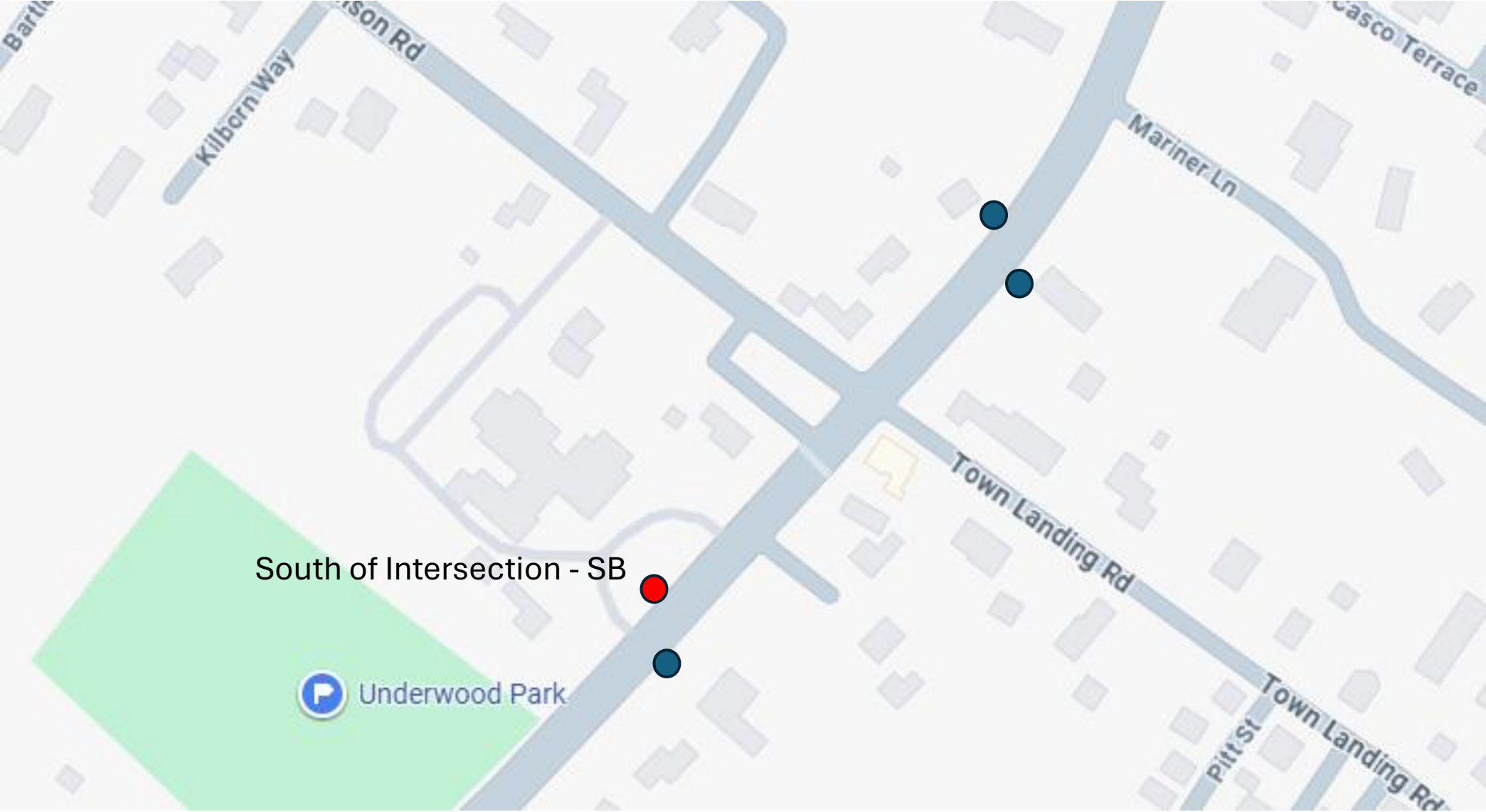
### Overall Summary

Total Days of Data: 13	Minimum Speed: 10
Speed Limit: 35	Maximum Speed: 50
Average Speed: 25.25	Display Mode: Daily Schedule
50th Percentile Speed: 25.49	Average Volume per Day: 4152.5
85th Percentile Speed: 29.73	Total Volume: 53982
Pace Speed Range: 21-31	



Average Speed 25.25MPH / 85% Speed 29.73MPH

# Speed Collection Locations



# PRE Traffic Calming Installation



## Extended Speed Summary

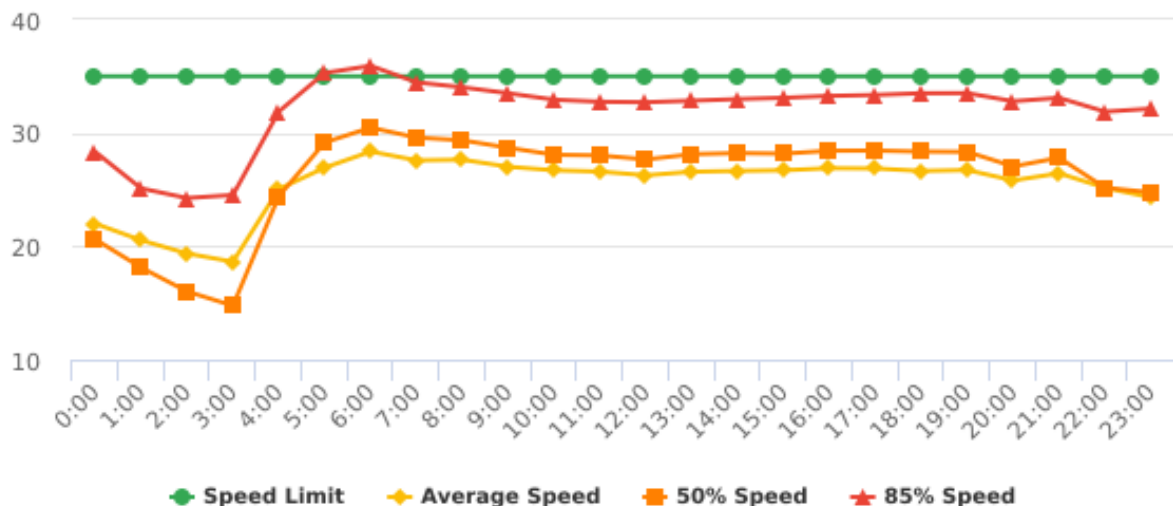
Foreside Road @ Town Landing (South of Johnson Rd), SB

Start: 2025-05-01  
End: 2025-06-05  
Times: 0:00:00-23:59:59

Violation Threshold: Speed Limit + 10  
Speed Range: 1 to 150

### Overall Summary

Total Days of Data: 36	Minimum Speed: 10
Speed Limit: 35	Maximum Speed: 61
Average Speed: 26.78	Display Mode: Single Message, Daily
50th Percentile Speed: 28.31	Average Volume per Day: 2674.4
85th Percentile Speed: 33.27	Total Volume: 96280
Pace Speed Range: 25-35	



Average Speed 26.78MPH / 85% Speed 33.27MPH

# POST Traffic Calming Installation



## Extended Speed Summary

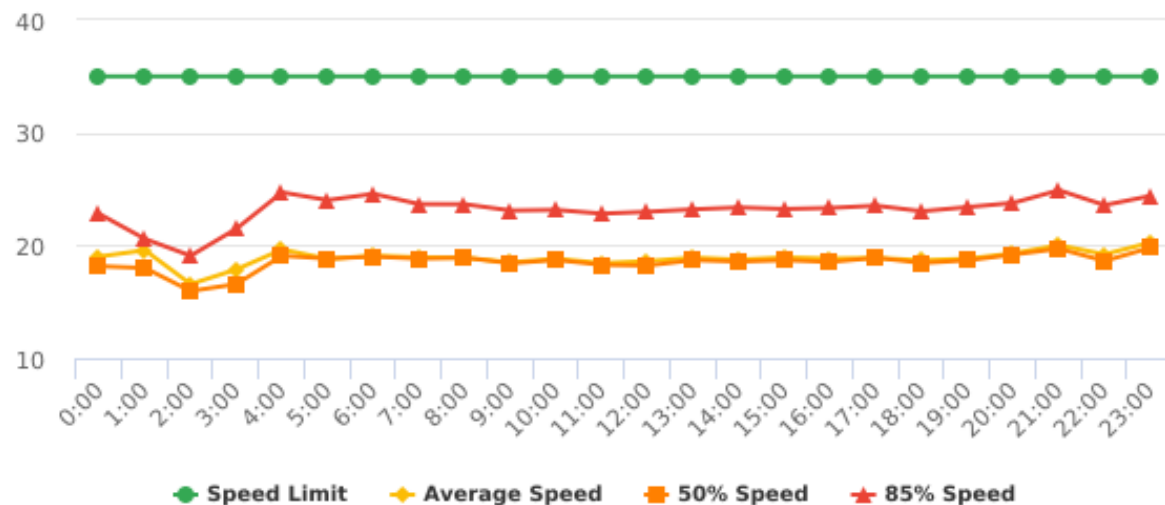
Foreside Road @ Town Landing (South of Johnson Rd), SB

Start: 2025-09-16  
End: 2025-09-28  
Times: 0:00:00-23:59:59

Violation Threshold: Speed Limit + 10  
Speed Range: 1 to 150

### Overall Summary

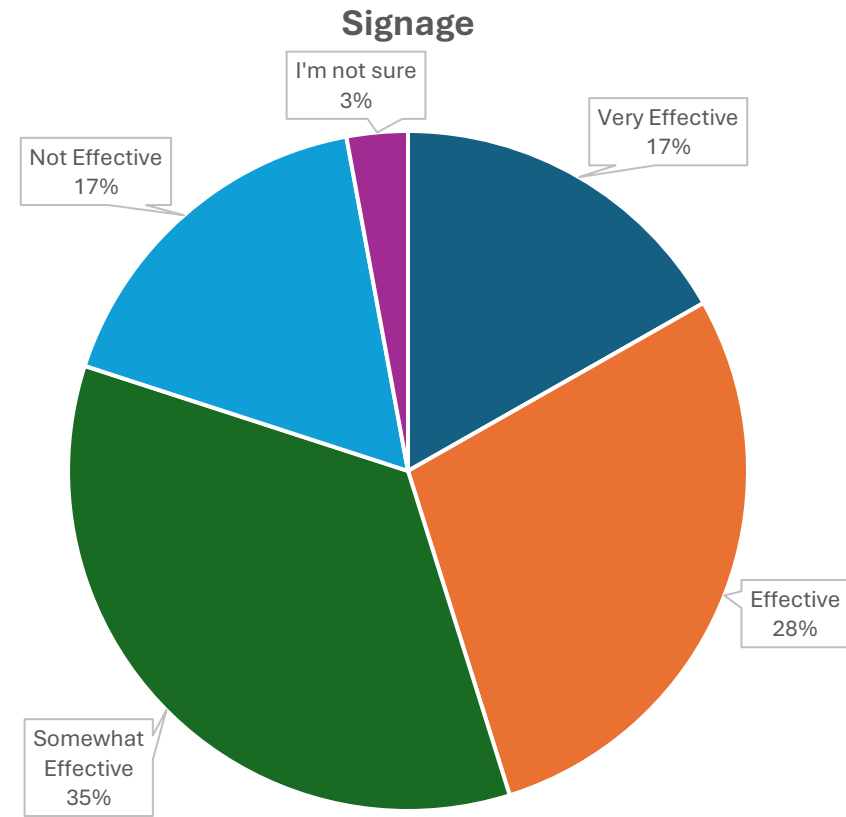
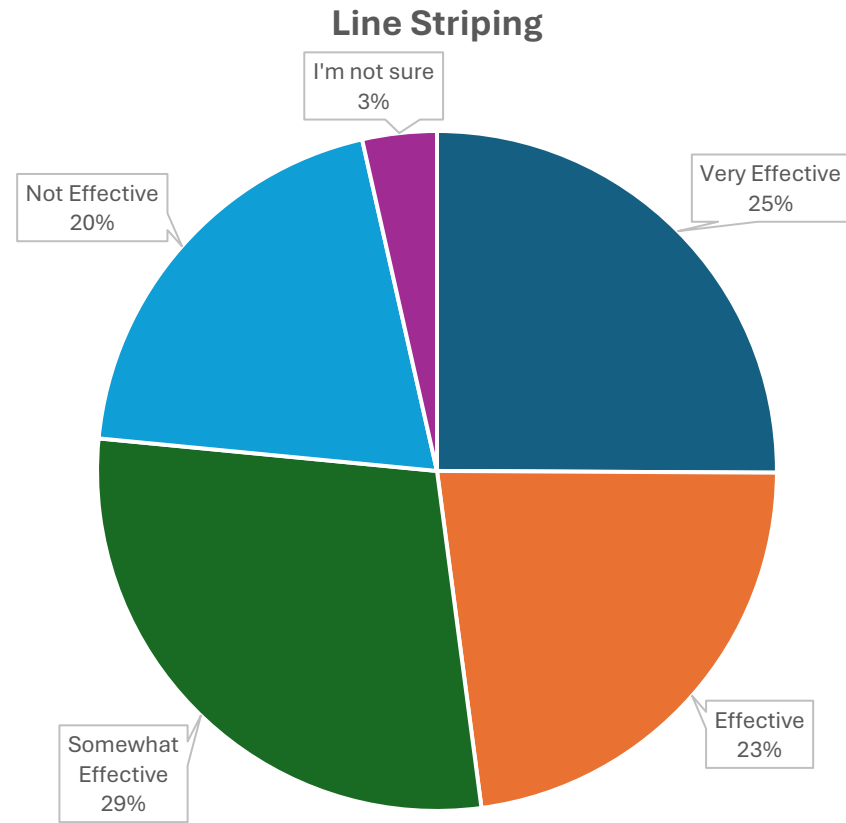
Total Days of Data: 13	Minimum Speed: 10
Speed Limit: 35	Maximum Speed: 43
Average Speed: 18.81	Display Mode: Display Off
50th Percentile Speed: 18.64	Average Volume per Day: 4029.7
85th Percentile Speed: 23.34	Total Volume: 52386
Pace Speed Range: 13-23	



Average Speed 18.81MPH / 85% Speed 23.34MPH

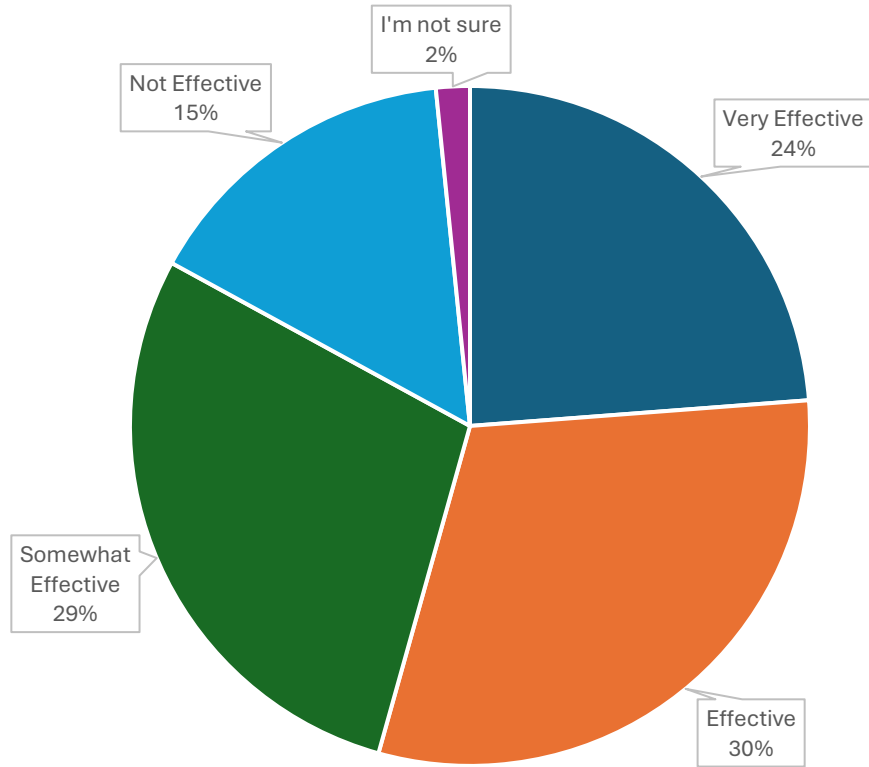
<b>North of Intersection - NB</b>	<b>Pre-Installation</b>	<b>Post-Installation</b>	<b>% Reduction</b>
Average Speed	26.78 mph	19.53 mph	27%
85% Speed	32.67 mph	24.67 mph	24%
<b>North of Intersection - SB</b>	<b>Pre-Installation</b>	<b>Post-Installation</b>	<b>% Reduction</b>
Average Speed	28.36 mph	25.86 mph	9%
85% Speed	32.98 mph	30.52 mph	7%
<b>South of Intersection - NB</b>	<b>Pre-Installation</b>	<b>Post-Installation</b>	<b>% Reduction</b>
Average Speed	30.49 mph	25.25 mph	17%
85% Speed	35.26 mph	29.73 mph	16%
<b>South of Intersection - SB</b>	<b>Pre-Installation</b>	<b>Post-Installation</b>	<b>% Reduction</b>
Average Speed	26.78 mph	18.81 mph	30%
85% Speed	33.27 mph	23.34 mph	30%

# Public Survey Results

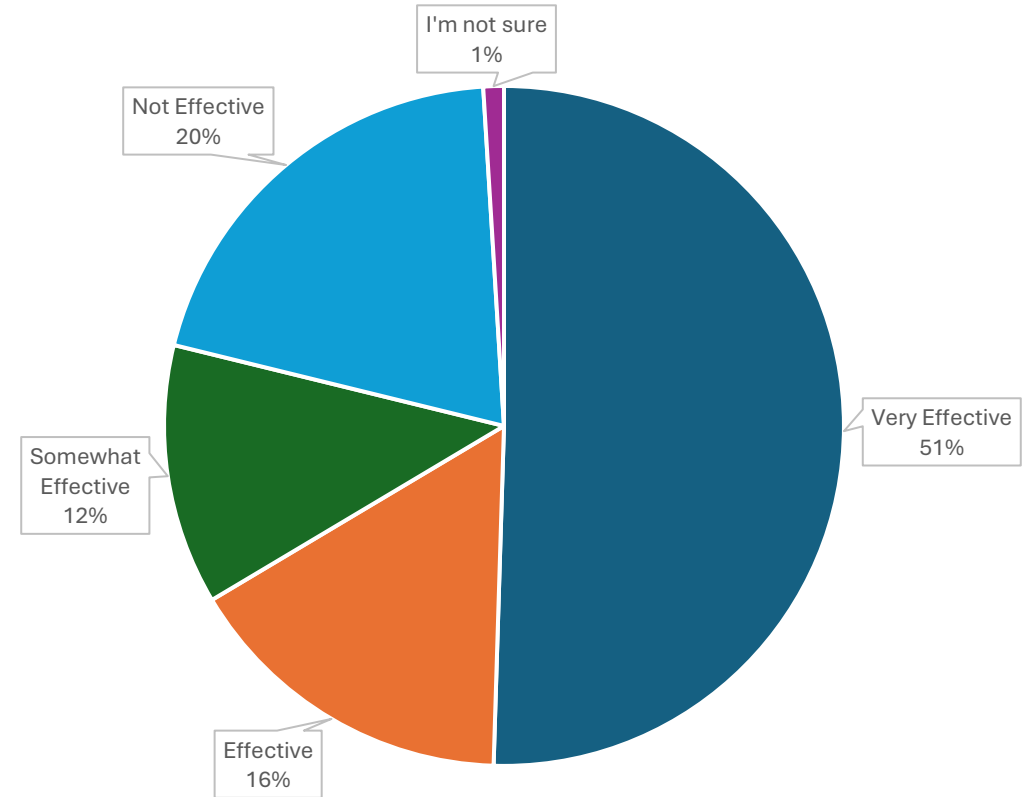


# Public Survey Results

## Speed Feedback Sign

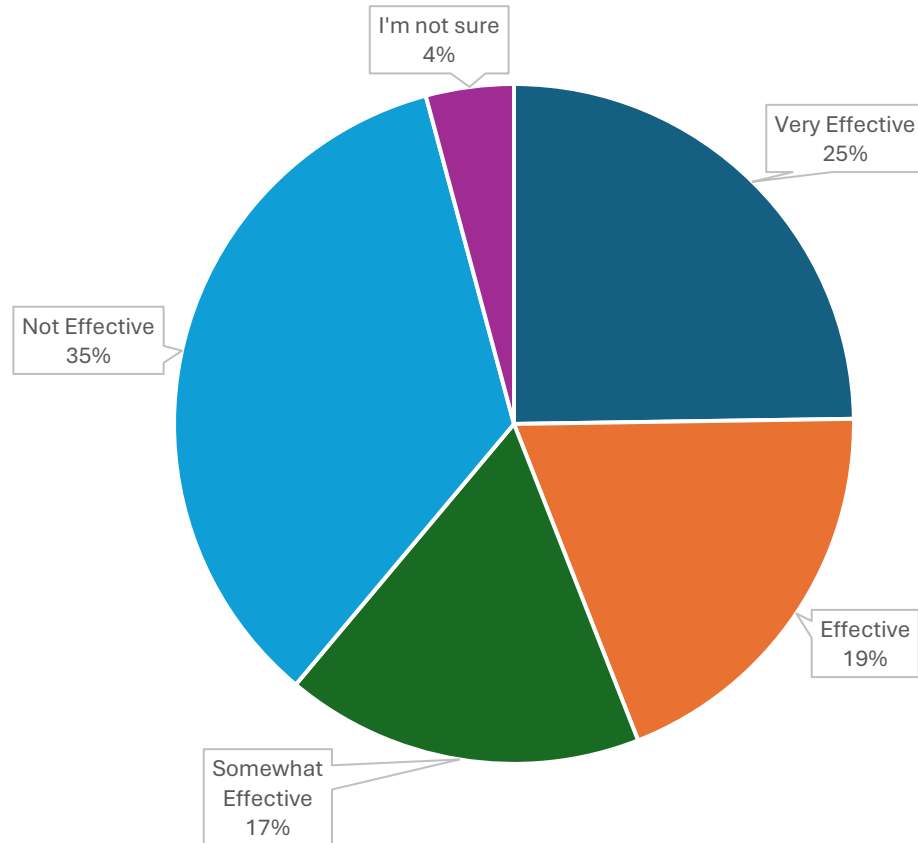


## Speed Table

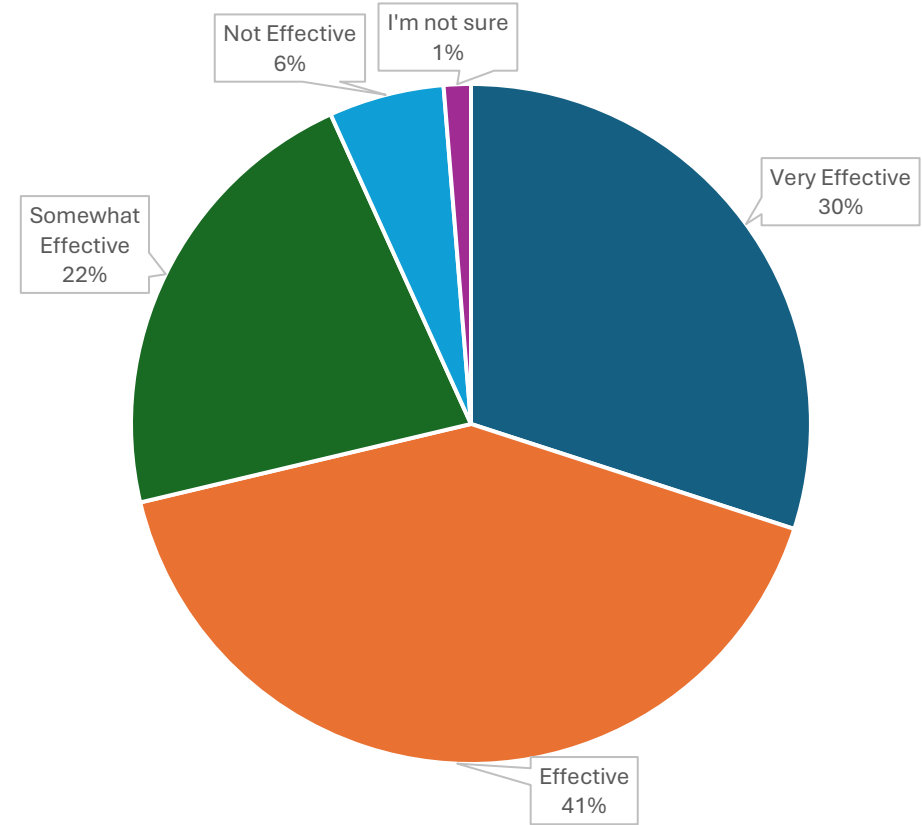


# Public Survey Results

## White Bollards

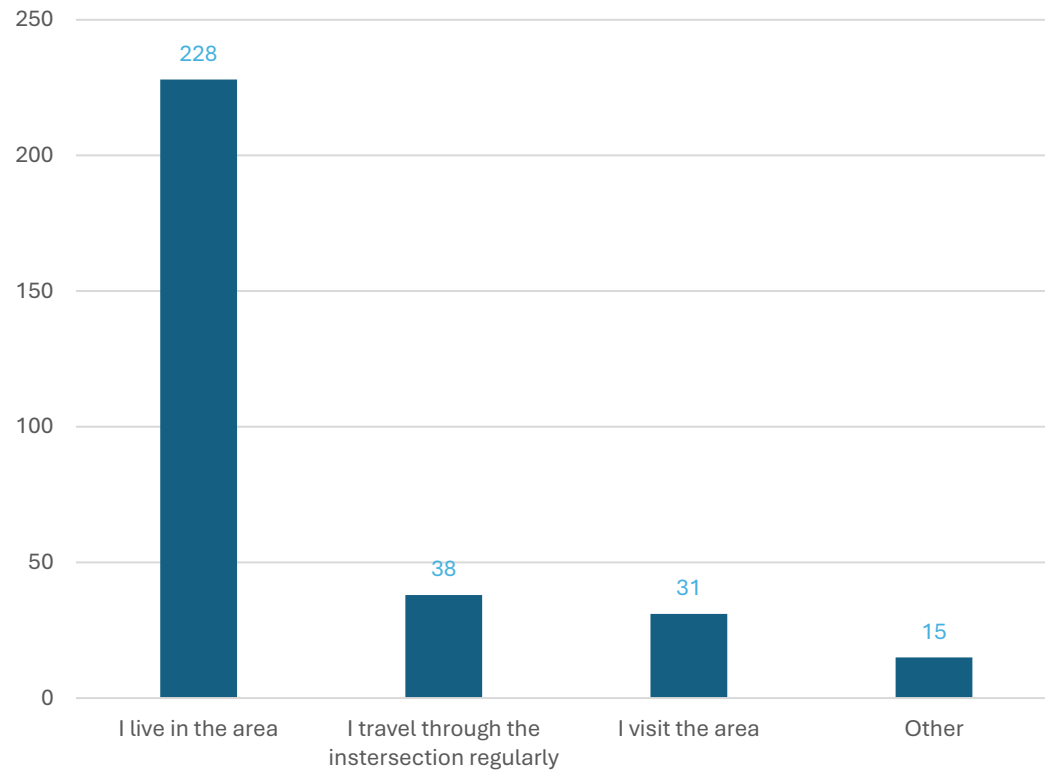


## Crosswalk

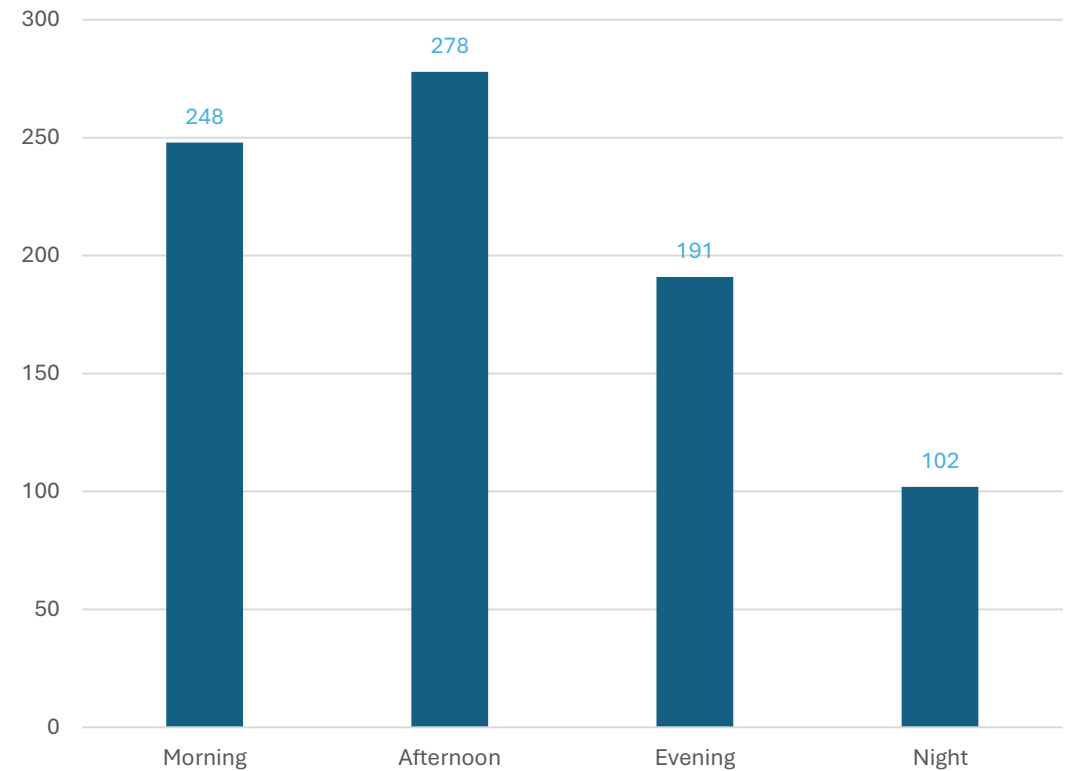


# Public Survey Results

What's your relationship to Route 88, Johnson Road and Town Landing Road

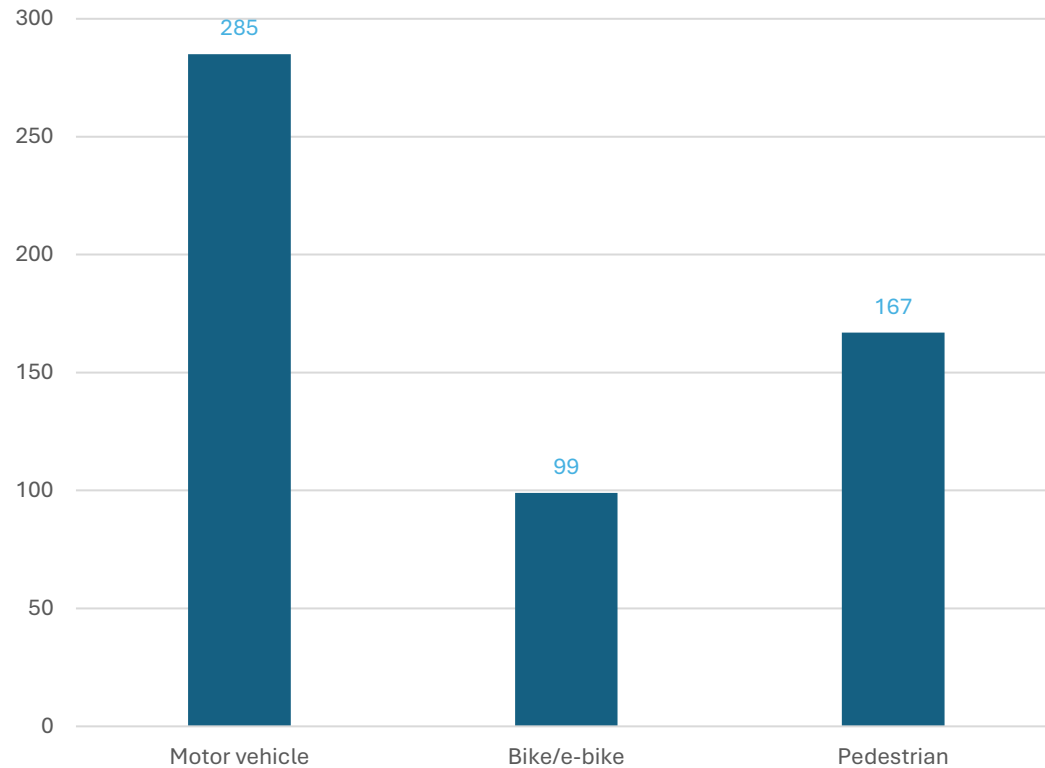


What time of day do you usually travel through or near the intersection?

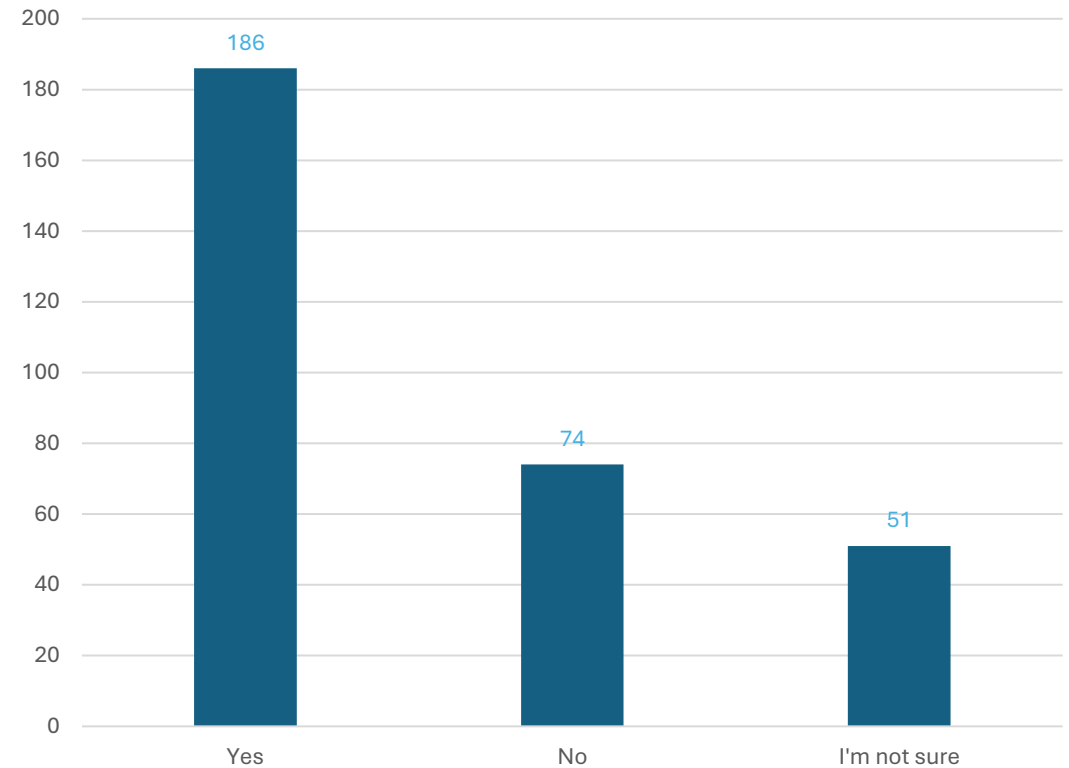


# Public Survey Results

What mode of transportation do you usually use when traveling through or near the intersection?



Would you support a 4-way stop at the intersection of Route 88 and Town Landing Road/Johnson Road?



# Issues/Concerns



SPEED



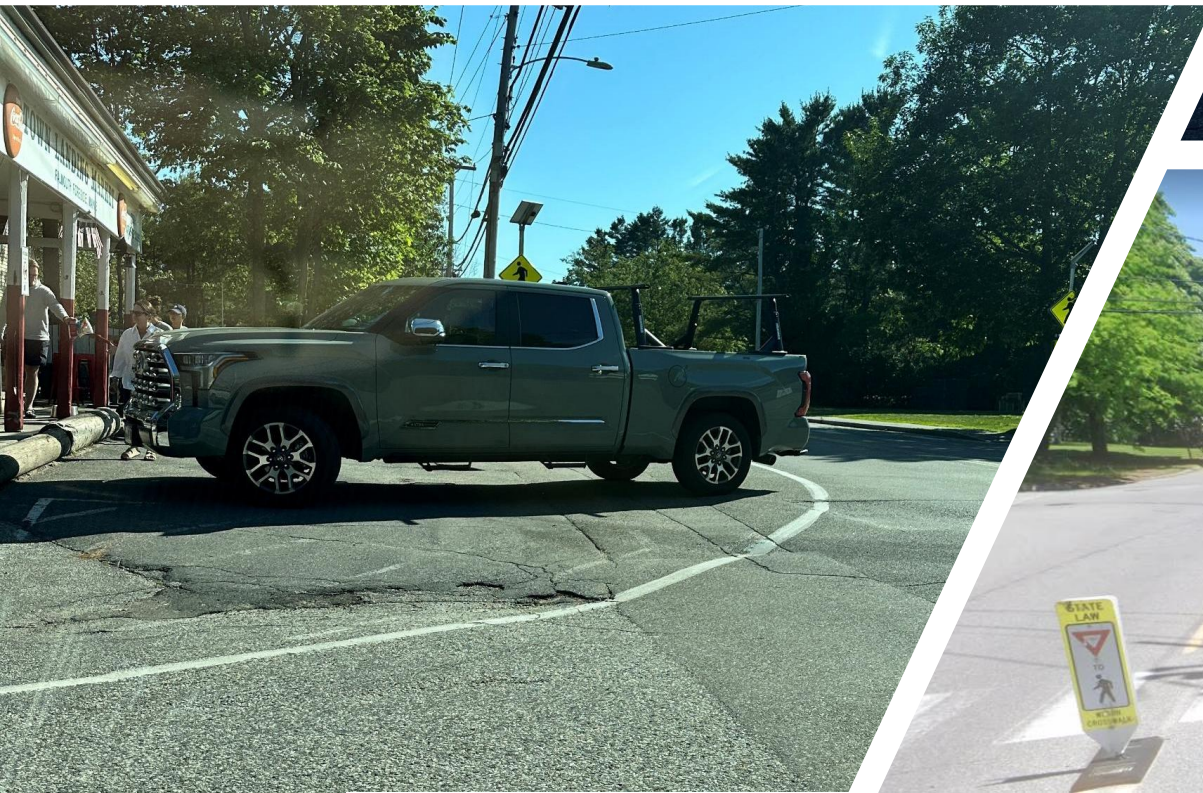
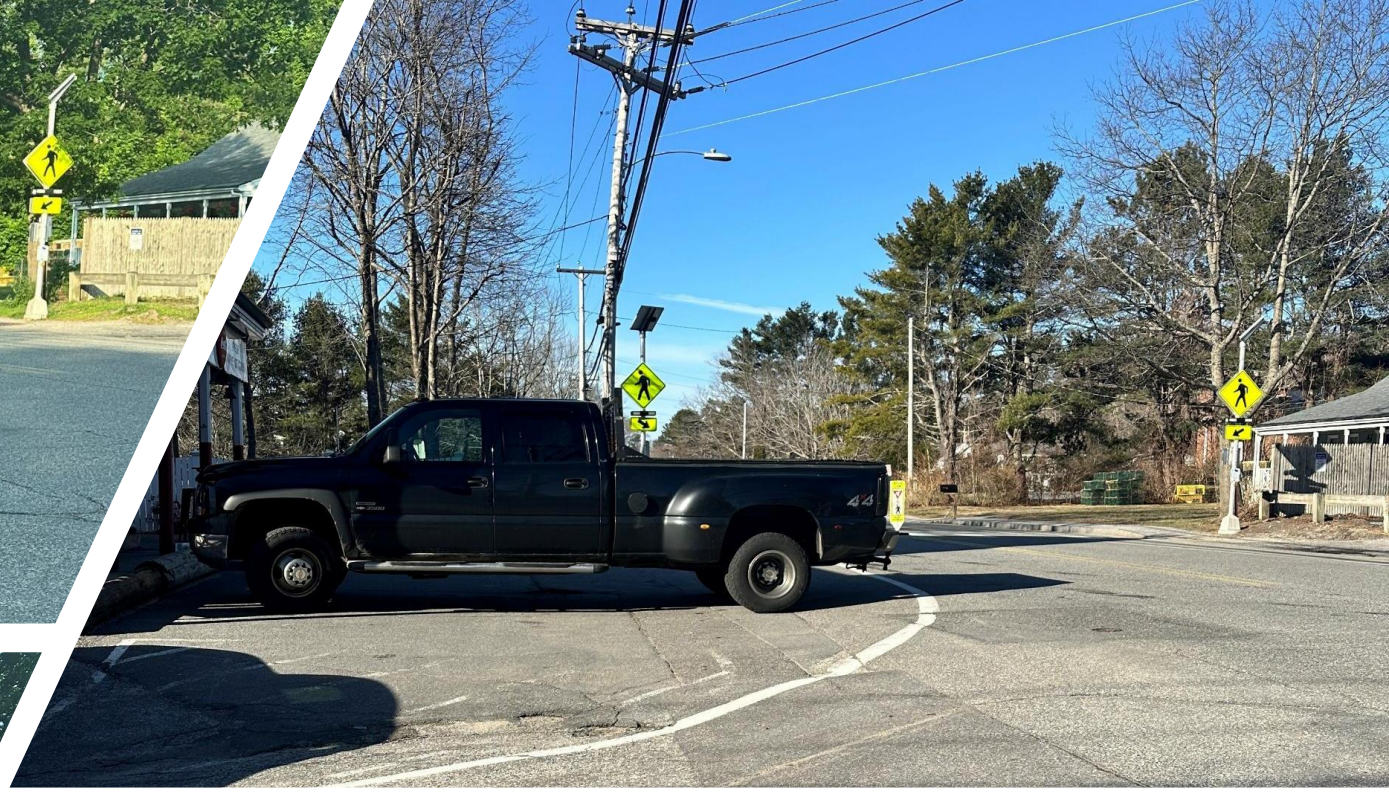
SITE VISIBILITY



TOWN LANDING  
MARKET PARKING



PEDESTRIAN  
SAFETY



# Options For Next Steps

- Four-Way Stop
  - Need Engineering Study/Warrant Evaluation
  - MEDOT Approval
  - Coordination with Town Landing Market owner
- Raised Intersection
  - Evaluate drainage impacts
- Evaluate Other Traffic Calming Solutions

