ORANGE COUNTY FLORIDA

# Bithlo Area Traffic Calming Study

North of SR 50

Thursday October 15, 2026 | 6:00 PM – 7:30 PM

**Orange County Public Works,**
**Traffic Engineering Division**

# INTRODUCTIONS



**Kelly Martinez Semrad**

District 5 Commissioner

# INTRODUCTIONS

## Orange County Traffic Engineering


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Project Manager

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## Study Consultant


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pchoudhary@avconinc.com

(407) 252-7606


Visit the project webpage:
https://bit.ly/BithloTS

# PRESENTATION OUTLINE

- Introductions
- Vision Zero/The Four “E’s”
- Traffic Calming and Study History
- Study Area
- Existing Conditions
- Proposed Traffic Calming Measures
- Public Feedback

# Vision Zero Action Plan

- The Safe System Approach is “Principles Based” to create a safety culture
- Achieving a Safe Systems requires all five elements
- Safe Roads is a continuum, not an absolute



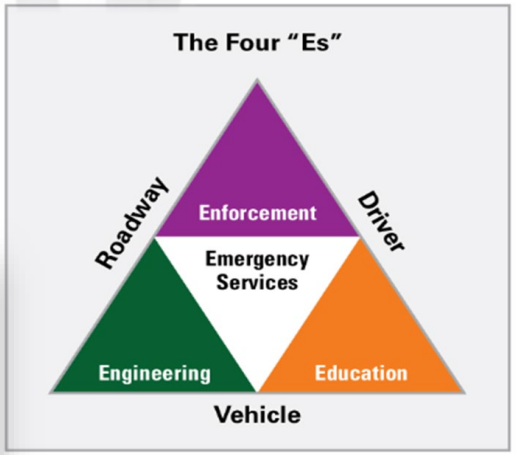
# The Four “E’s” Approach

- Engineering
  - Road and Vehicle Design, Planning, Land Use
- Education
  - Awareness, Teaching, Training
- Enforcement
  - Preventing, Policing, and Mitigating Effects
- Emergency Response
  - Incident Response, Fire/Rescue, Hazardous Materials





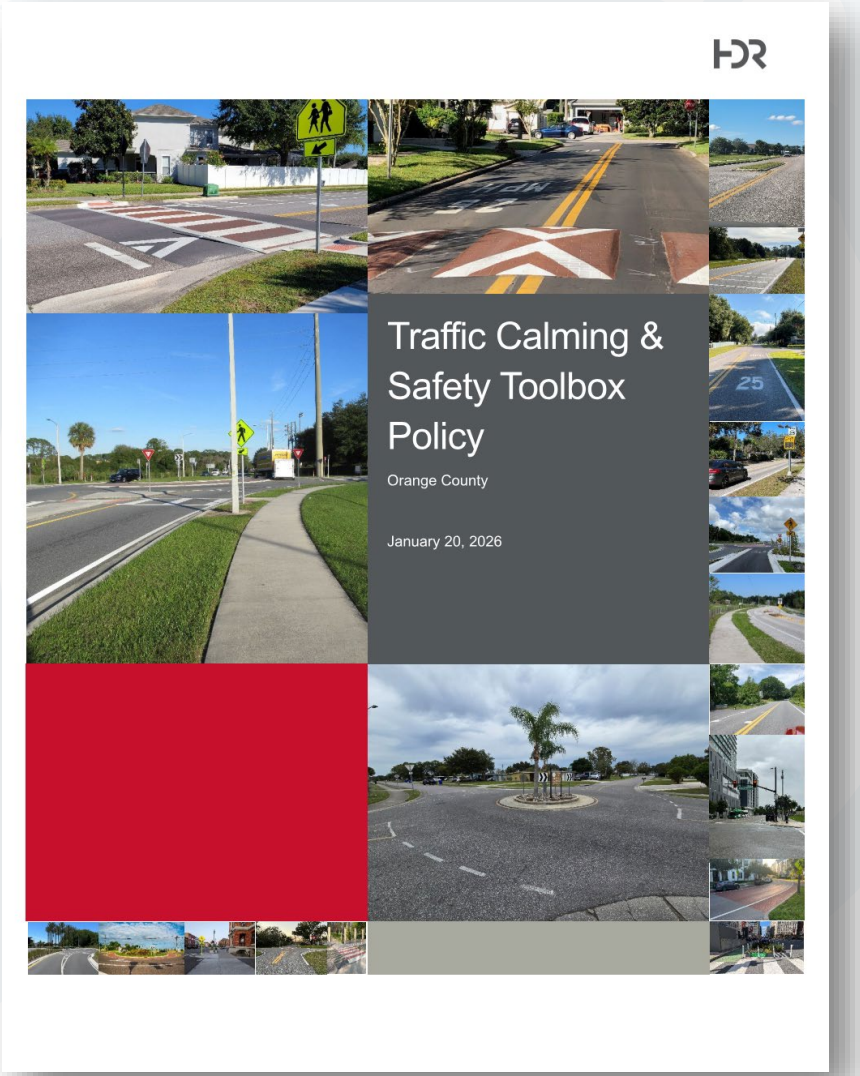







# Traffic Calming and Study History

- **Orange County-Led Projects**
  - 311 Requests
  - Pavement Striping Initiative
  - Retro-reflectivity Signage Review
  - Resurfacing (Roads & Drainage Division)
  - Sidewalks (Engineering Division)
- **Traffic Calming Toolbox**
  - Expanded the 1994 Speed Hump Program to 40 treatments for various road types and contexts
  - Guides traffic calming measure selection by providing construction costs, project timeline, and context limitations



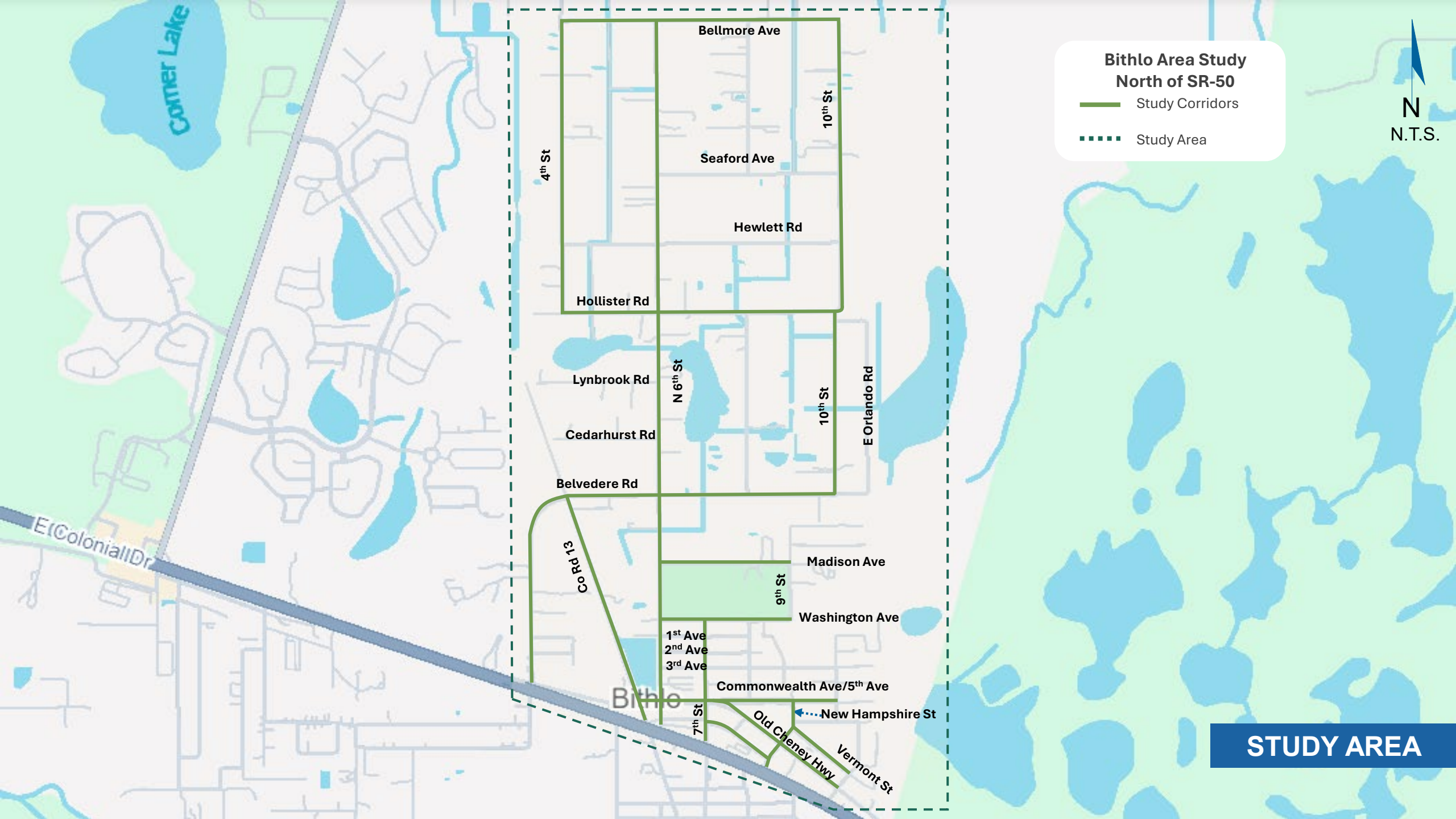
# INTRODUCTIONS

## Meeting Instructions

- The presentation will be followed by a question-and-answer period
- Comments will be addressed in the order they are received

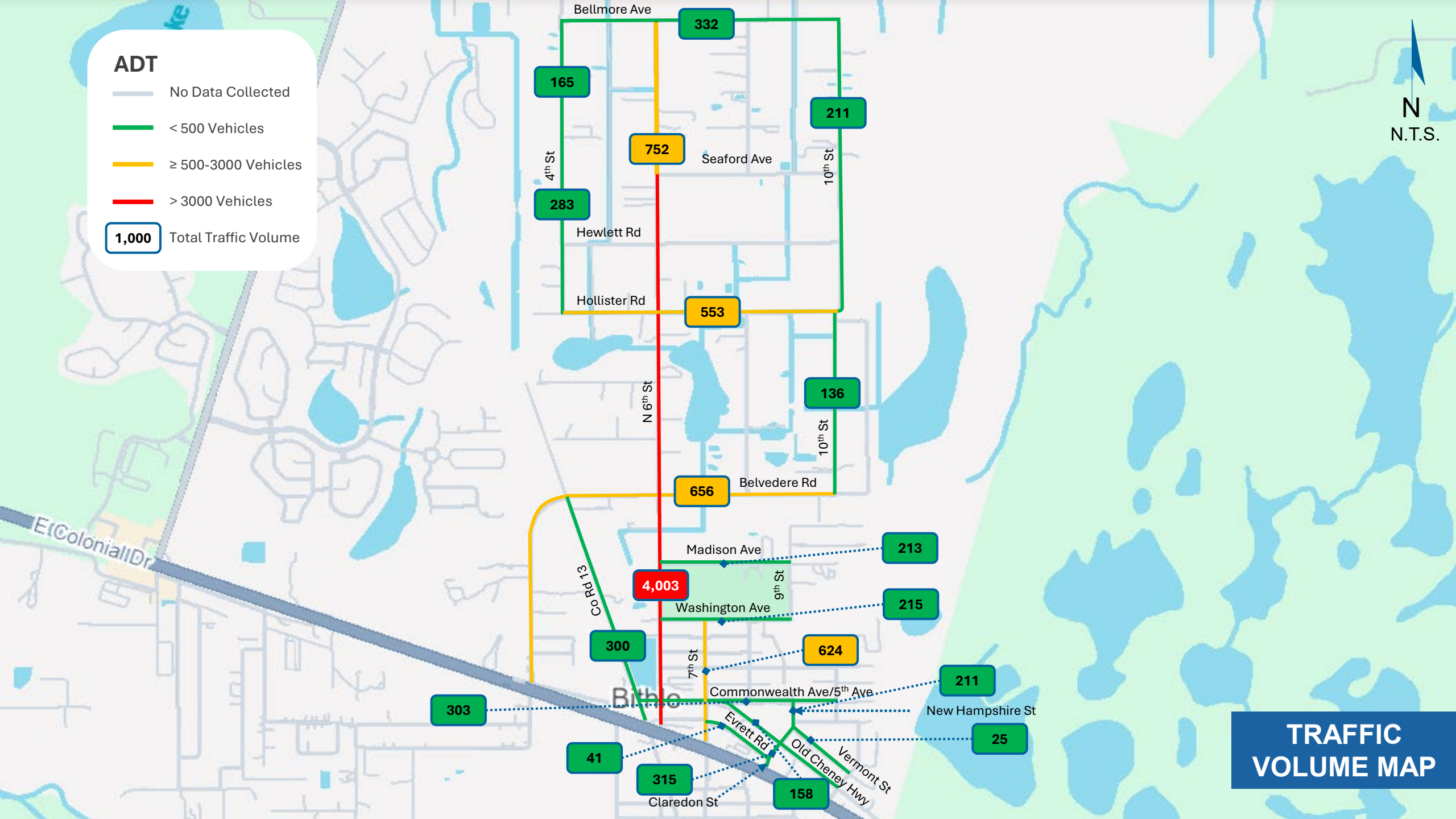
# PRESENTATION OUTLINE

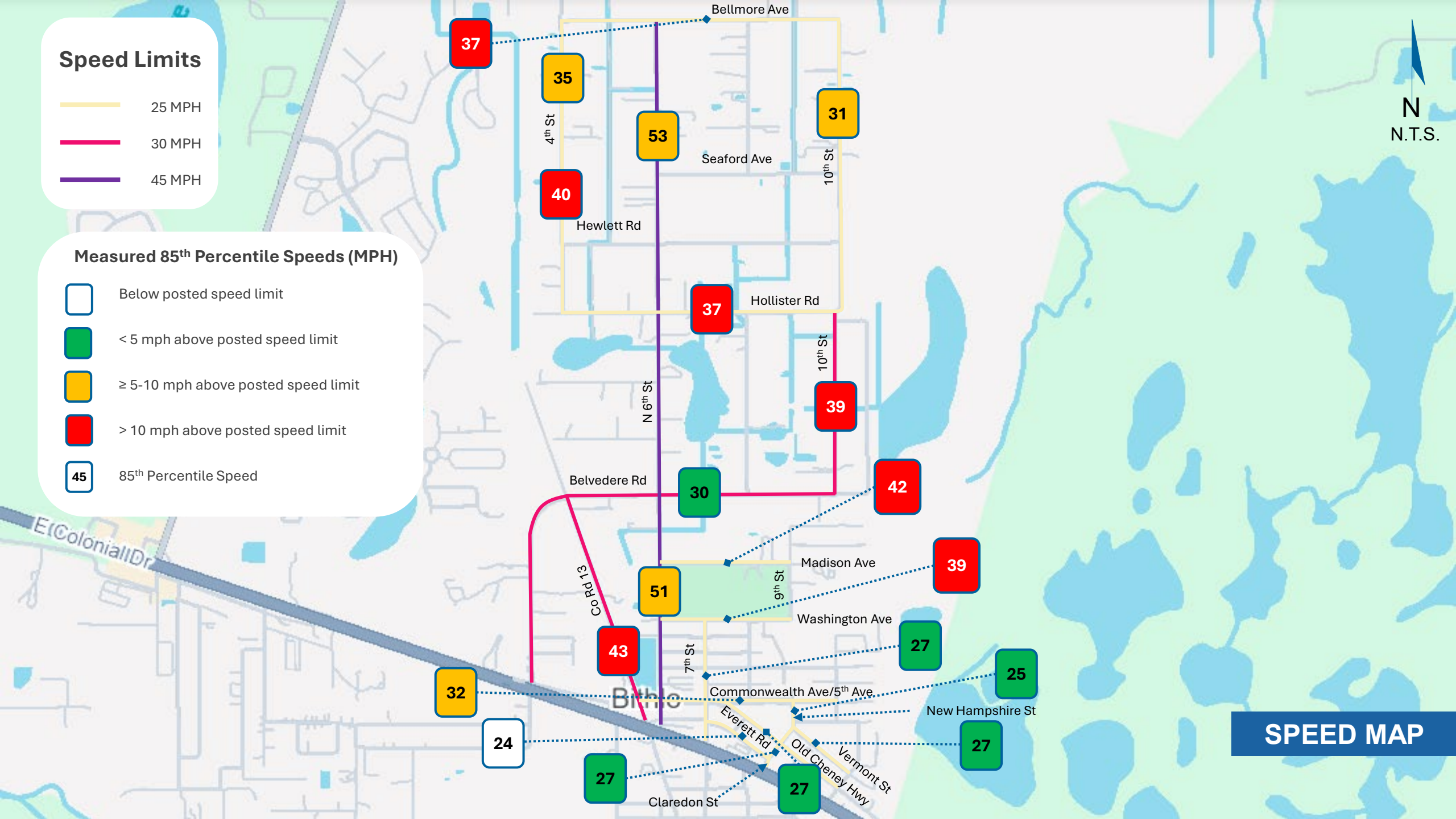
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- Public Feedback

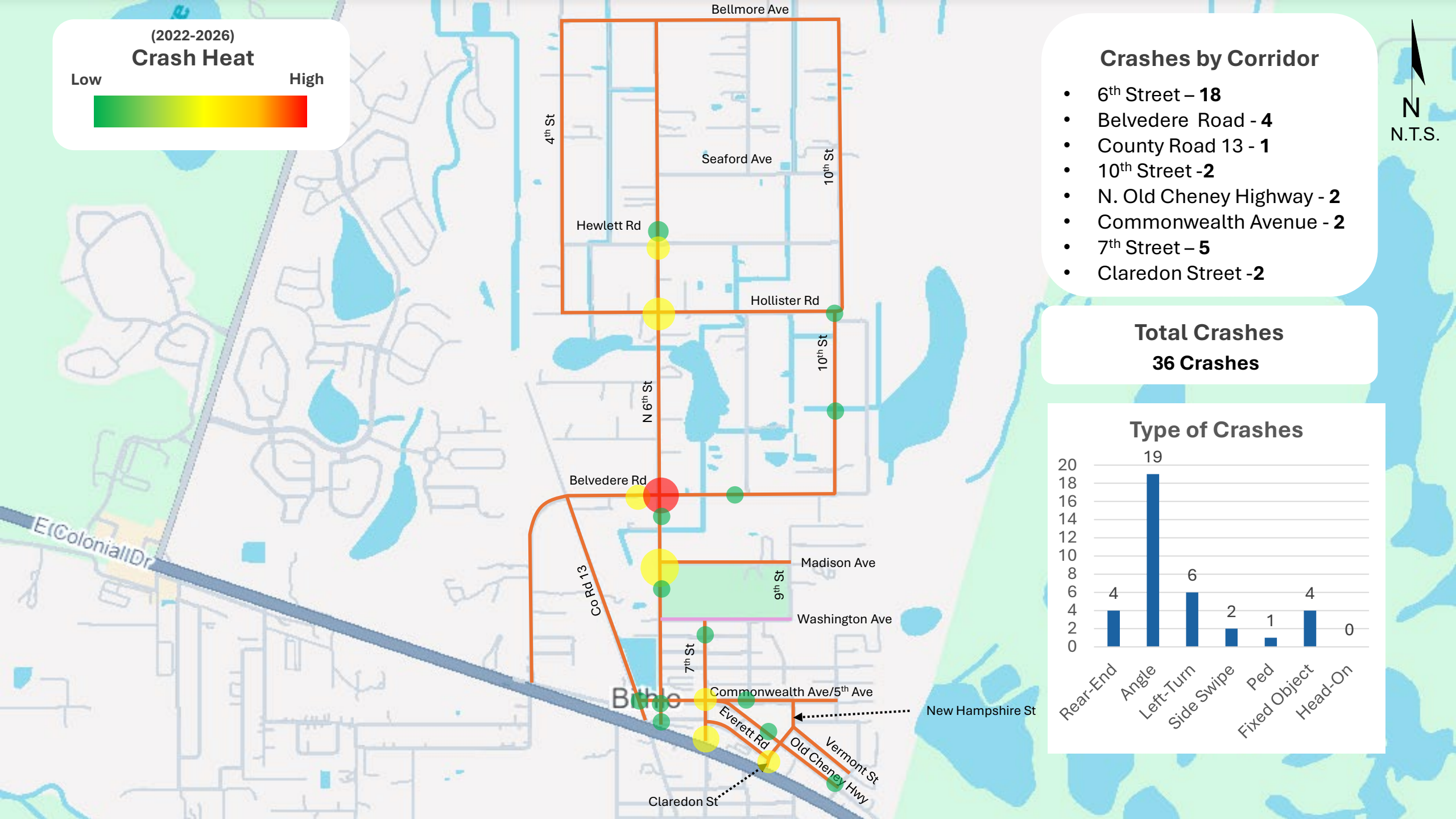

Bithlo Area Study
North of SR-50
Study Corridors
Study Area
N
N.T.S.
Bellmore Ave
Seaford Ave
Hewlett Rd
Hollister Rd
Lynbrook Rd
Cedarhurst Rd
Belvedere Rd
Madison Ave
Washington Ave
Commonwealth Ave/5th Ave
New Hampshire St
4th St
10th St
N 6th St
10th St
E Orlando Rd
Co Rd 13
9th St
1st Ave
2nd Ave
3rd Ave
7th St
Old Cheney Hwy
Vermont St
E Colonial Dr
Bithlo
Conner Lake
STUDY AREA

# PRESENTATION OUTLINE

- Introductions
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- **Existing Conditions**
- Proposed Traffic Calming Measures
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ADT
No Data Collected
< 500 Vehicles
≥ 500-3000 Vehicles
> 3000 Vehicles
1,000 Total Traffic Volume
N
N.T.S.
Bellmore Ave
332
165
211
752
Seaford Ave
4th St
10th St
283
Hewlett Rd
Hollister Rd
553
136
N 6th St
10th St
656
Belvedere Rd
E Colonial Dr
Madison Ave
213
4,003
9th St
Co Rd 13
Washington Ave
215
300
624
7th St
211
Commonwealth Ave/5th Ave
303
New Hampshire St
25
Evrett Rd
Old Cheney Hwy
Vermont St
41
315
158
Claredon St
TRAFFIC VOLUME MAP


Speed Limits
25 MPH
30 MPH
45 MPH
Measured 85th Percentile Speeds (MPH)
Below posted speed limit
< 5 mph above posted speed limit
≥ 5-10 mph above posted speed limit
> 10 mph above posted speed limit
45
85th Percentile Speed
N
N.T.S.
SPEED MAP
Bellmore Ave
37
35
4th St
53
31
Seaford Ave
10th St
40
Hewlett Rd
37
Hollister Rd
10th St
N 6th St
39
Belvedere Rd
30
42
Madison Ave
39
Co Rd 13
51
9th St
Washington Ave
43
7th St
27
25
32
Commonwealth Ave/5th Ave
New Hampshire St
24
Everett Rd
Old Cheney Hwy
27
Vermont St
27
27
Claredon St
E Colonial Dr

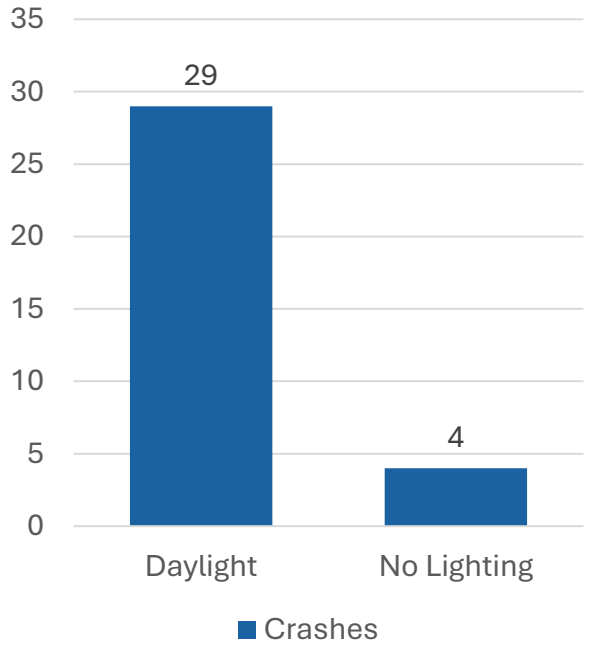

(2022-2026)
Crash Heat
Low
High
Bellmore Ave
4th St
Seaford Ave
10th St
Hewlett Rd
Hollister Rd
10th St
N 6th St
Belvedere Rd
E Colonial Dr
Co Rd 13
Madison Ave
9th St
Washington Ave
7th St
Commonwealth Ave/5th Ave
New Hampshire St
Everett Rd
Old Cheney Hwy
Vermont St
Claredon St
N
N.T.S.
Crashes by Corridor
6th Street – 18
Belvedere Road - 4
County Road 13 - 1
10th Street -2
N. Old Cheney Highway - 2
Commonwealth Avenue - 2
7th Street – 5
Claredon Street -2
Total Crashes
36 Crashes
Type of Crashes
20
18
16
14
12
10
8
6
4
2
0
4
19
6
2
1
4
0
Rear-End
Angle
Left-Turn
Side Swipe
Ped
Fixed Object
Head-On

## Night (No Lighting) Crashes by Corridor

- Belvedere Road - **1**
- 10th Street -**2**
- 7th Street – **1**

**Total No Lighting Crashes**
**(2022-2026)**
**4 Crashes**

### Crash Lighting Conditions

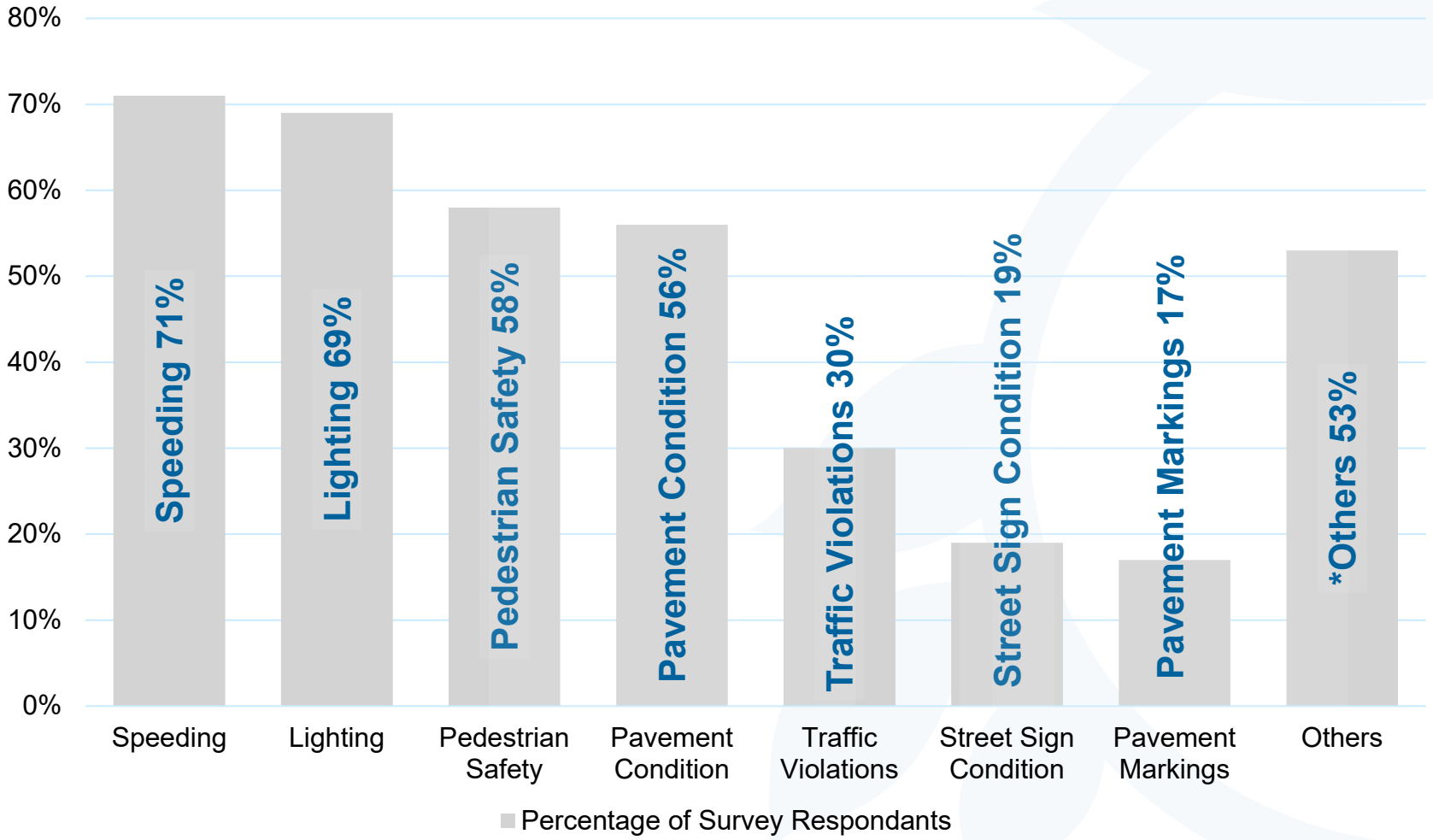



## Highlighted Crashes

- Night (No Lighting)
- Pedestrian
- Fatal

N
N.T.S.

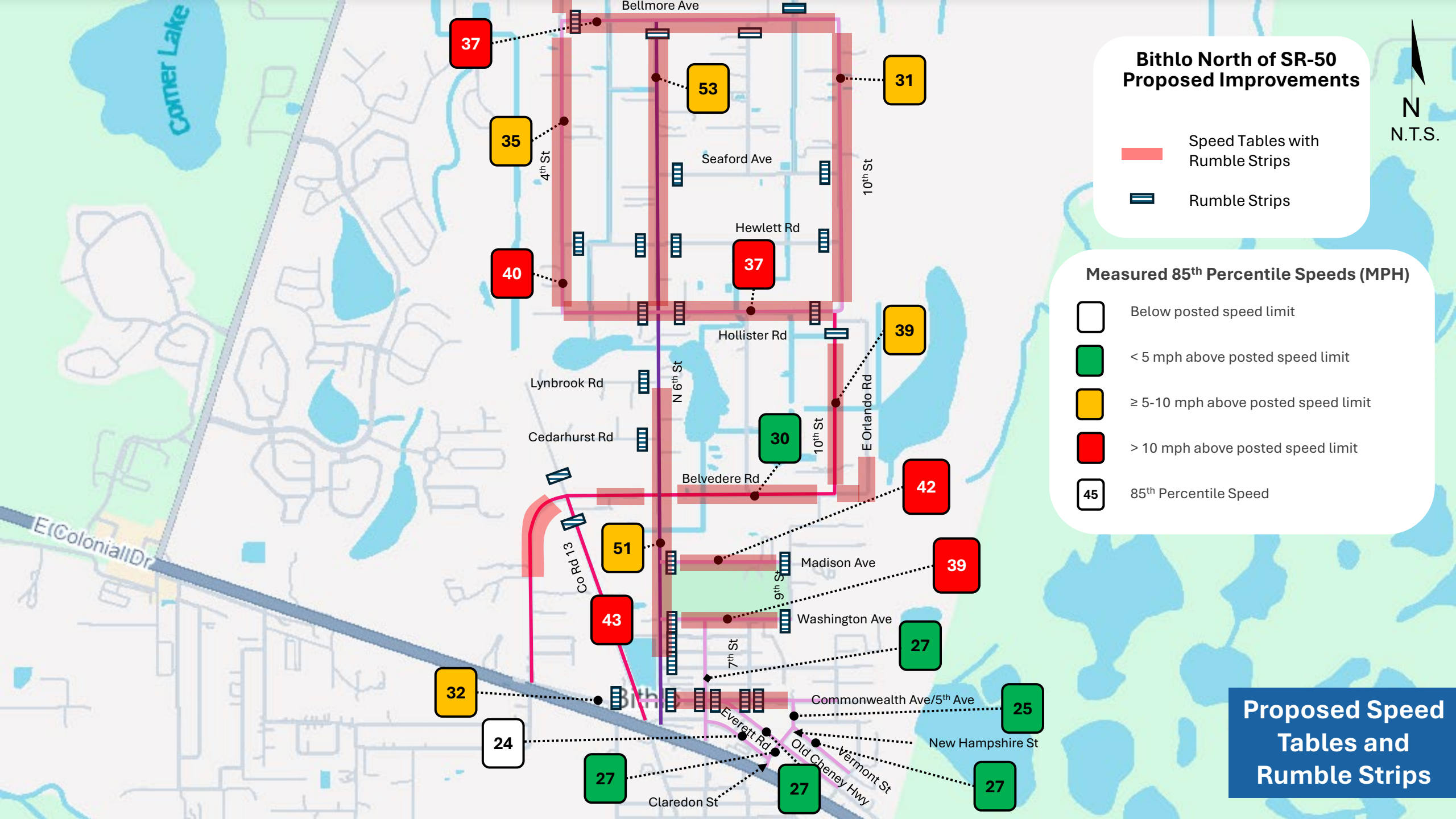
# EXISTING CONDITIONS – PUBLIC COMMENTS

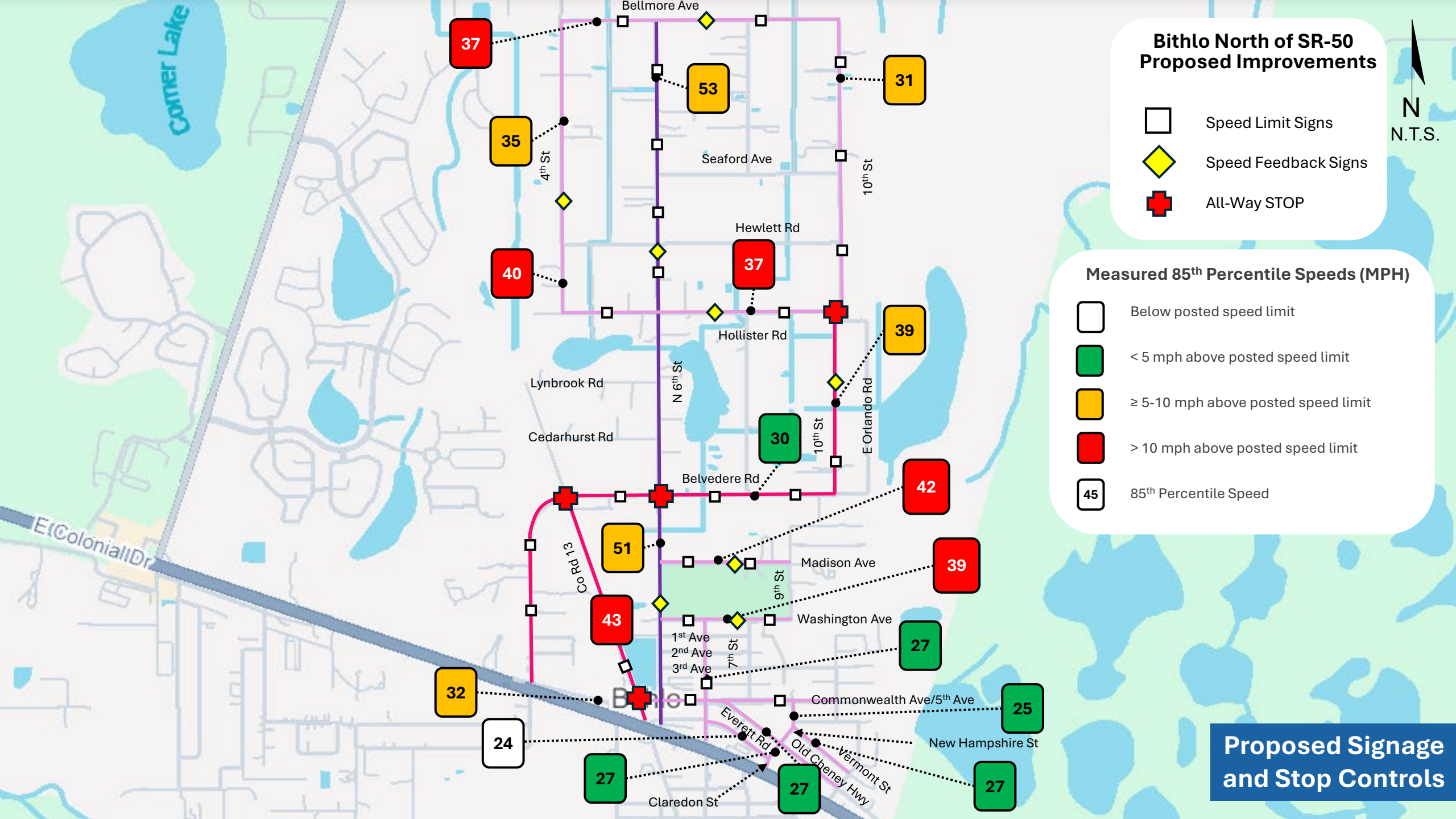


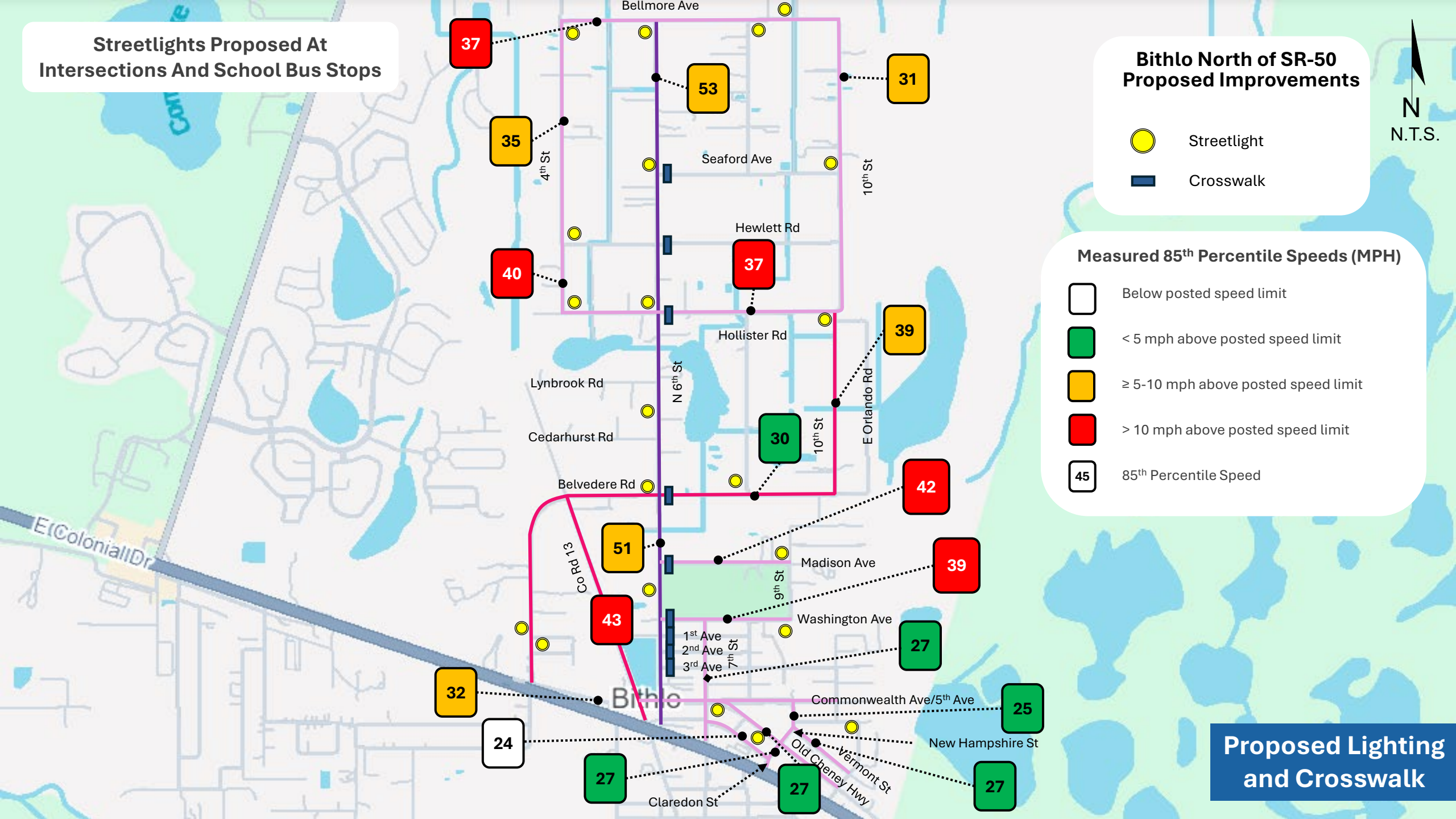

*Others (Enforcement, drainage, unmaintained ditches, street flooding, trash on the roads, horses on the road, reckless bike riding by children, safe drinking and bathing water supply, underground sewage system, asking for traffic signals at many locations, racing on the roads, complaining about neighbors, drug peddling, poor landscape, poor condition of the city, etc.)

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- **Proposed Traffic Calming Measures**
- Public Feedback


Bithlo North of SR-50
Proposed Improvements
Speed Tables with Rumble Strips
Rumble Strips
N
N.T.S.
Measured 85th Percentile Speeds (MPH)
Below posted speed limit
< 5 mph above posted speed limit
≥ 5-10 mph above posted speed limit
> 10 mph above posted speed limit
45 85th Percentile Speed
Proposed Speed Tables and Rumble Strips
Bellmore Ave
Seaford Ave
Hewlett Rd
Hollister Rd
Lynbrook Rd
Cedarhurst Rd
Belvedere Rd
Madison Ave
Washington Ave
Commonwealth Ave/5th Ave
New Hampshire St
Vermont St
Claredon St
Everett Rd
Old Cheney Hwy
4th St
10th St
N 6th St
E Orlando Rd
Co Rd 13
9th St
7th St
E Colonial Dr
Corner Lake
37
53
31
35
40
37
39
30
42
51
39
43
27
32
24
27
27
25
27


Bithlo North of SR-50
Proposed Improvements
Speed Limit Signs
Speed Feedback Signs
All-Way STOP
N
N.T.S.
Measured 85th Percentile Speeds (MPH)
Below posted speed limit
< 5 mph above posted speed limit
≥ 5-10 mph above posted speed limit
> 10 mph above posted speed limit
45
85th Percentile Speed
Proposed Signage and Stop Controls
Bellmore Ave
Seaford Ave
Hewlett Rd
Hollister Rd
Lynbrook Rd
Cedarhurst Rd
Belvedere Rd
Madison Ave
Washington Ave
1st Ave
2nd Ave
3rd Ave
Commonwealth Ave/5th Ave
New Hampshire St
Vermont St
Old Cheney Hwy
Everett Rd
Claredon St
Co Rd 13
4th St
N 6th St
7th St
9th St
10th St
E Orlando Rd
E Colonial Dr
Corner Lake
37
53
31
35
40
37
39
30
42
51
39
43
27
32
24
27
27
25
27


Streetlights Proposed At Intersections And School Bus Stops
Bithlo North of SR-50 Proposed Improvements
Streetlight
Crosswalk
N
N.T.S.
Measured 85th Percentile Speeds (MPH)
Below posted speed limit
< 5 mph above posted speed limit
≥ 5-10 mph above posted speed limit
> 10 mph above posted speed limit
45
85th Percentile Speed
Proposed Lighting and Crosswalk
Bellmore Ave
Seaford Ave
Hewlett Rd
Hollister Rd
Lynbrook Rd
Cedarhurst Rd
Belvedere Rd
Madison Ave
Washington Ave
1st Ave
2nd Ave
3rd Ave
Commonwealth Ave/5th Ave
New Hampshire St
Vermont St
Old Cheney Hwy
Claredon St
4th St
N 6th St
7th St
9th St
10th St
E Orlando Rd
Co Rd 13
E Colonial Dr
Bithlo
37
53
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42
51
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43
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32
24
27
27
25
27

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# PUBLIC FEEDBACK

## Ways to Provide Feedback During the Meeting

- Ask questions and speak with project team members at the community meeting
- Submit a written comment form or fill out a speaker card

# NEXT STEPS

- Submit Your Feedback
  - Written comment forms
  - By email
- Draft Report
  - Anticipated for County review in early November 2026
- Final Report
  - Anticipated by mid-November 2026
    - Short-term recommendations typically implemented in 0-2 years
    - Mid-term recommendations typically implemented in 3-5 years
    - Long-term recommendations typically implemented in 5+ years
- Vertical Deflection Implementation (Speed Cushions or Speed Tables)
  - Prior to the installation of vertical deflection traffic calming measures, ballots will be distributed to directly affected property owners.  To proceed with the installation, at least 66% of the returned ballots must be in favor of the proposed improvements