



HILLSBOROUGH

VISIONZERO 

N 15th Street & Mango Road

N 15th Street

- Corridor Overview
- Summary of Crash Data
- Community Outreach Results
- Long-Term Corridor Improvements

Mango Road

- Corridor Overview
- Summary of Crash Data
- Community Outreach Results
- Short-Term Corridor Improvements
- Long-Term Corridor Improvements



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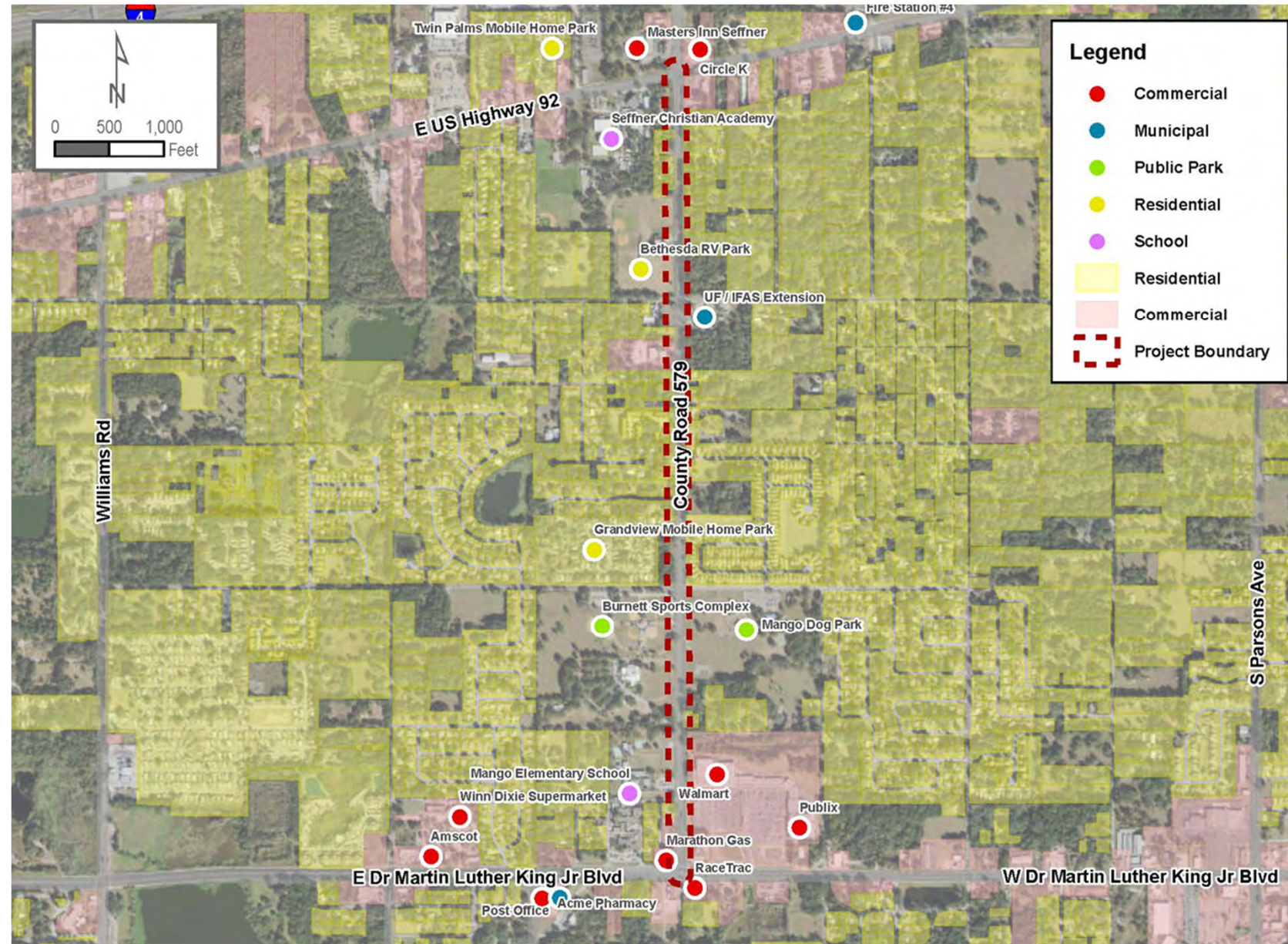


HILLSBOROUGH

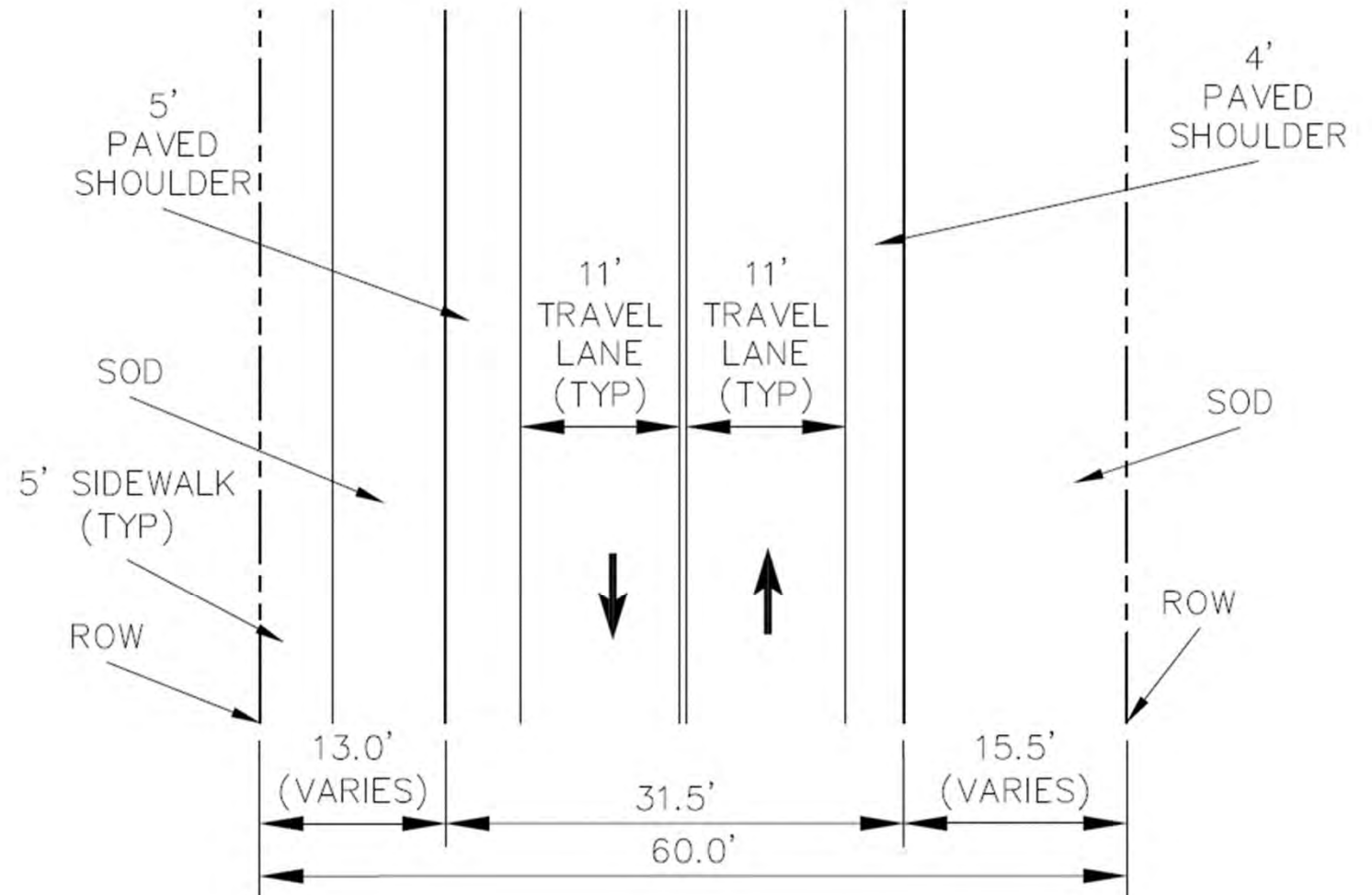
Mango Road/CR 579

From US 92 to Dr. Martin Luther King Jr. Boulevard

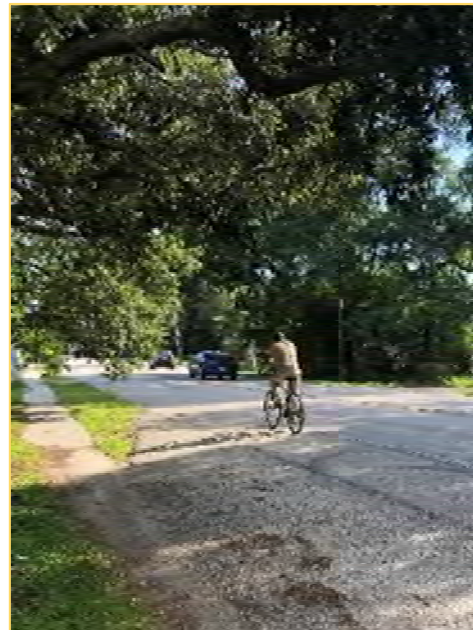
- A north-south corridor between US 92 and Dr. Martin Luther King Jr. Boulevard
- Connection to interstate
- Mixture of land uses including schools, parks, residential, and commercial uses
- Estimated population within a one mile radius: 13,100



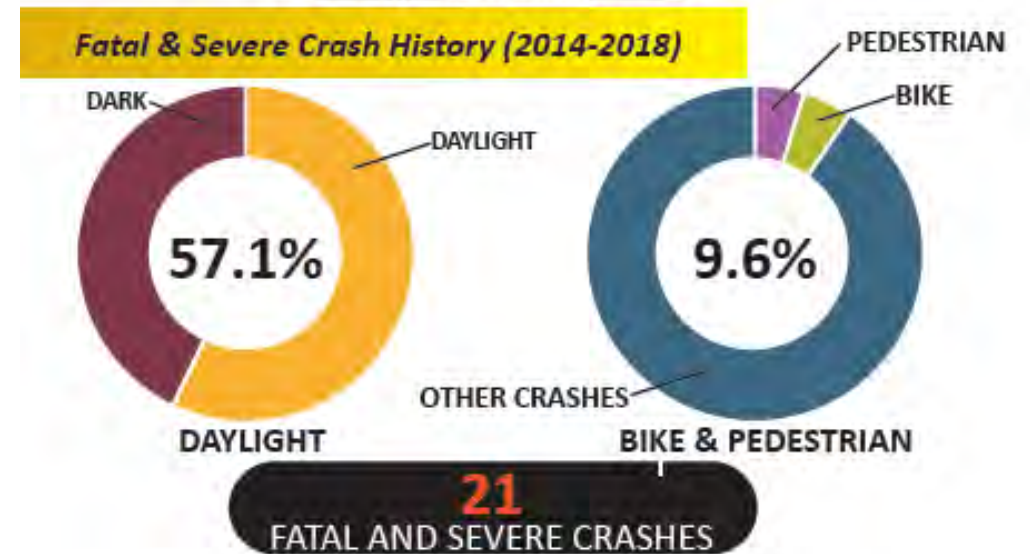
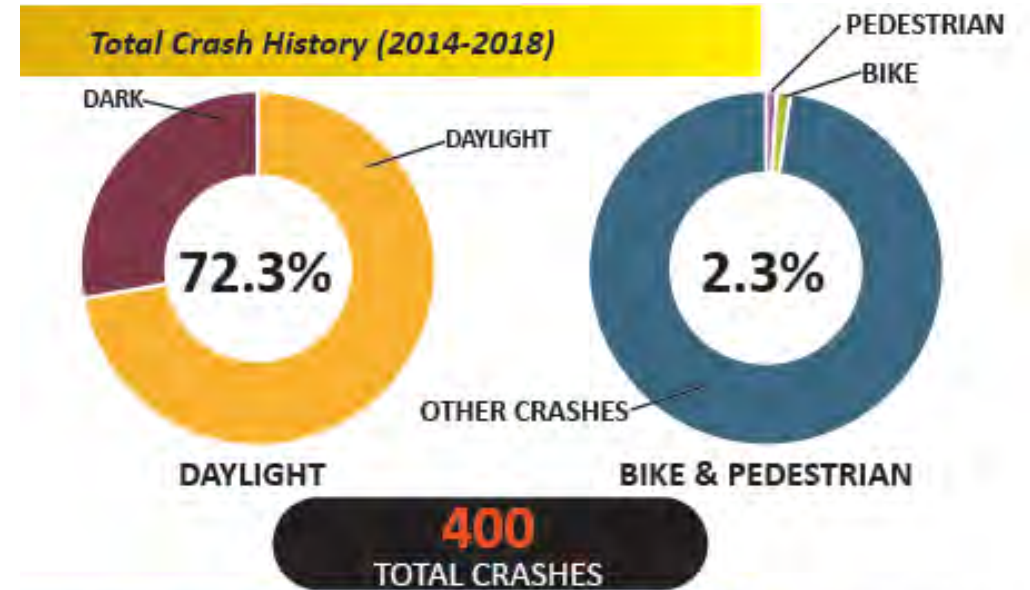
- 2-lane undivided roadway with paved shoulder
- Speed limit: 45 MPH
- Daily Traffic: 13,500
- No separated bike facilities
- Continuous sidewalk on the west side
- Non-continuous sidewalk on the east side
- One HART transit stop on south end of corridor



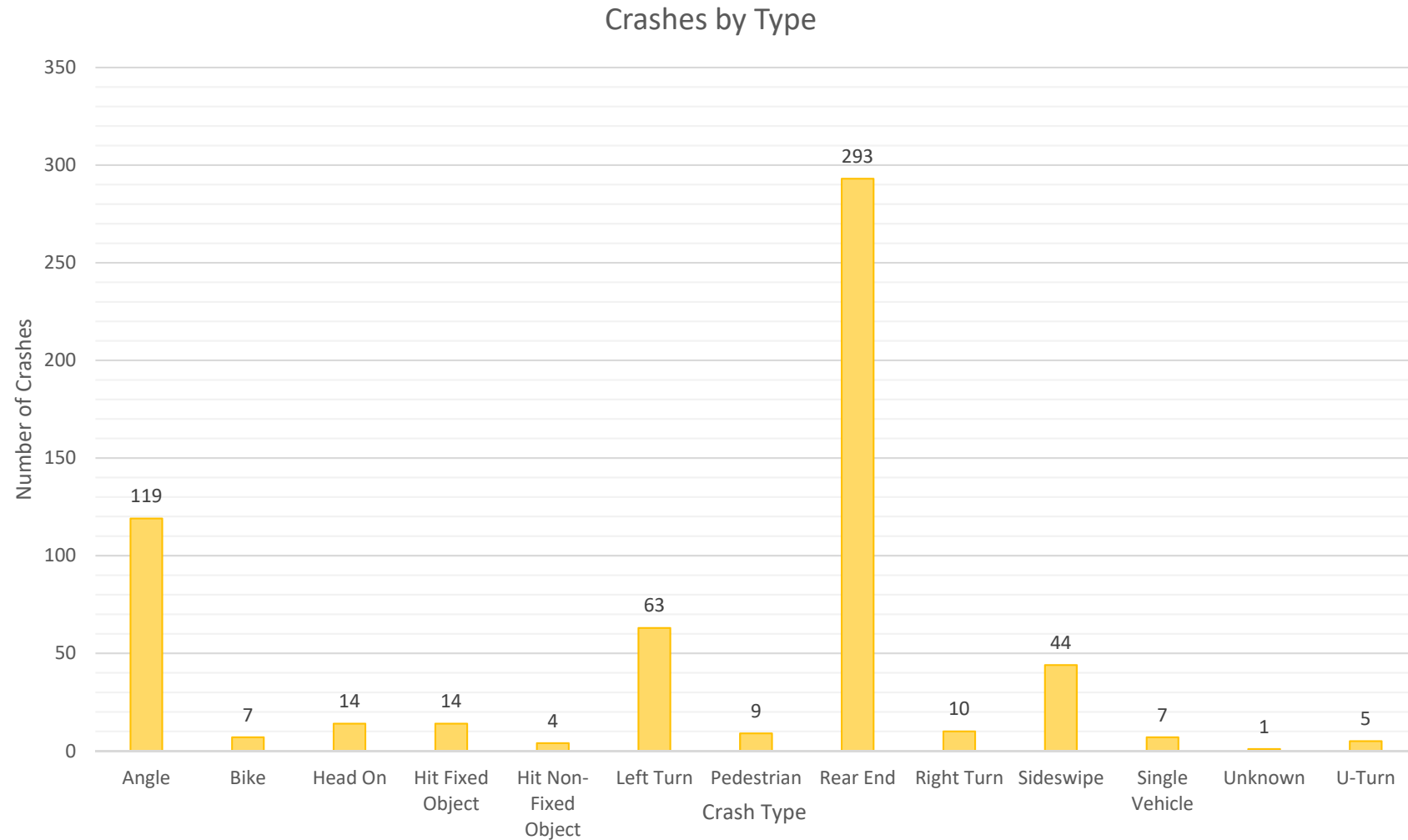
Existing Conditions

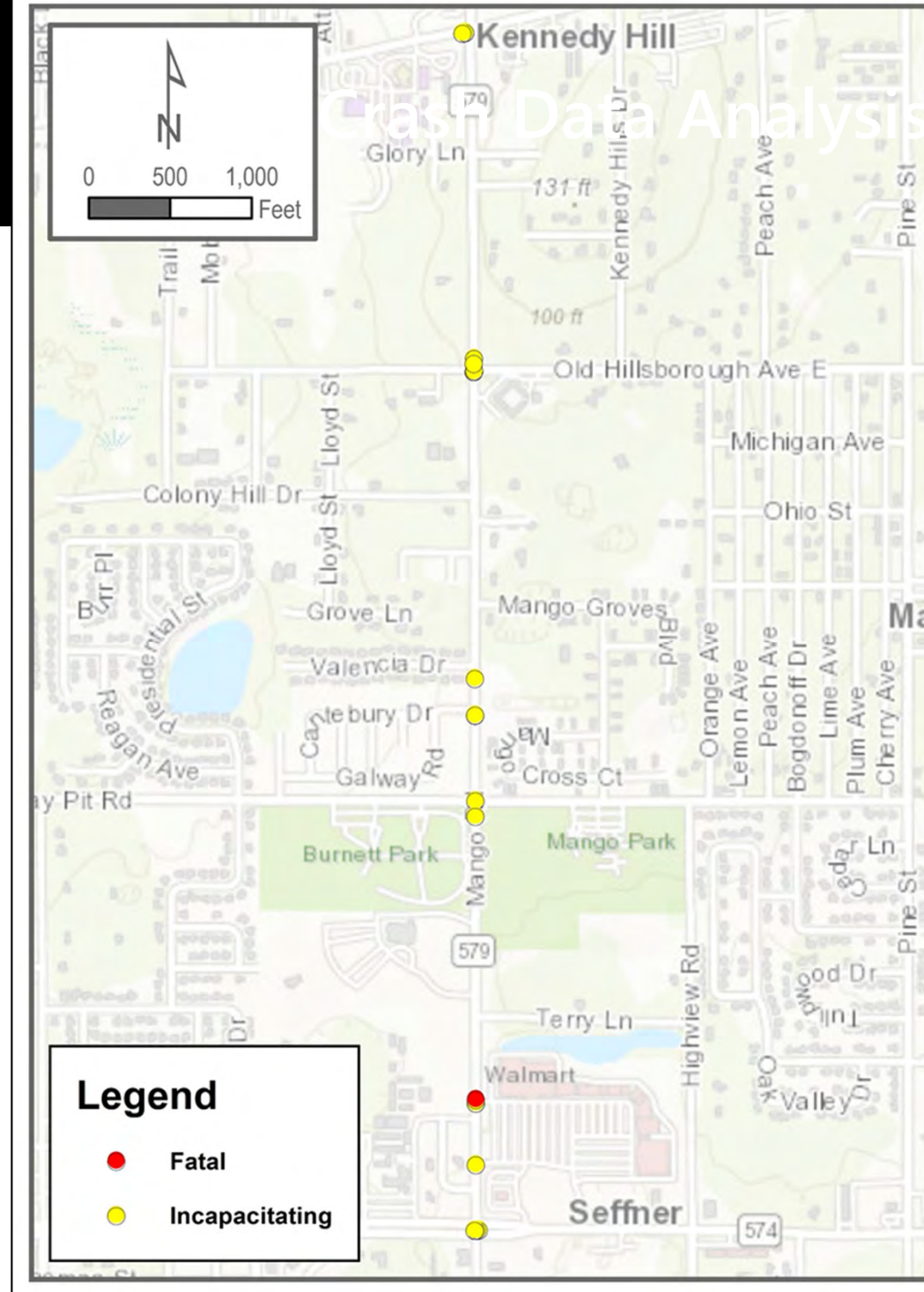
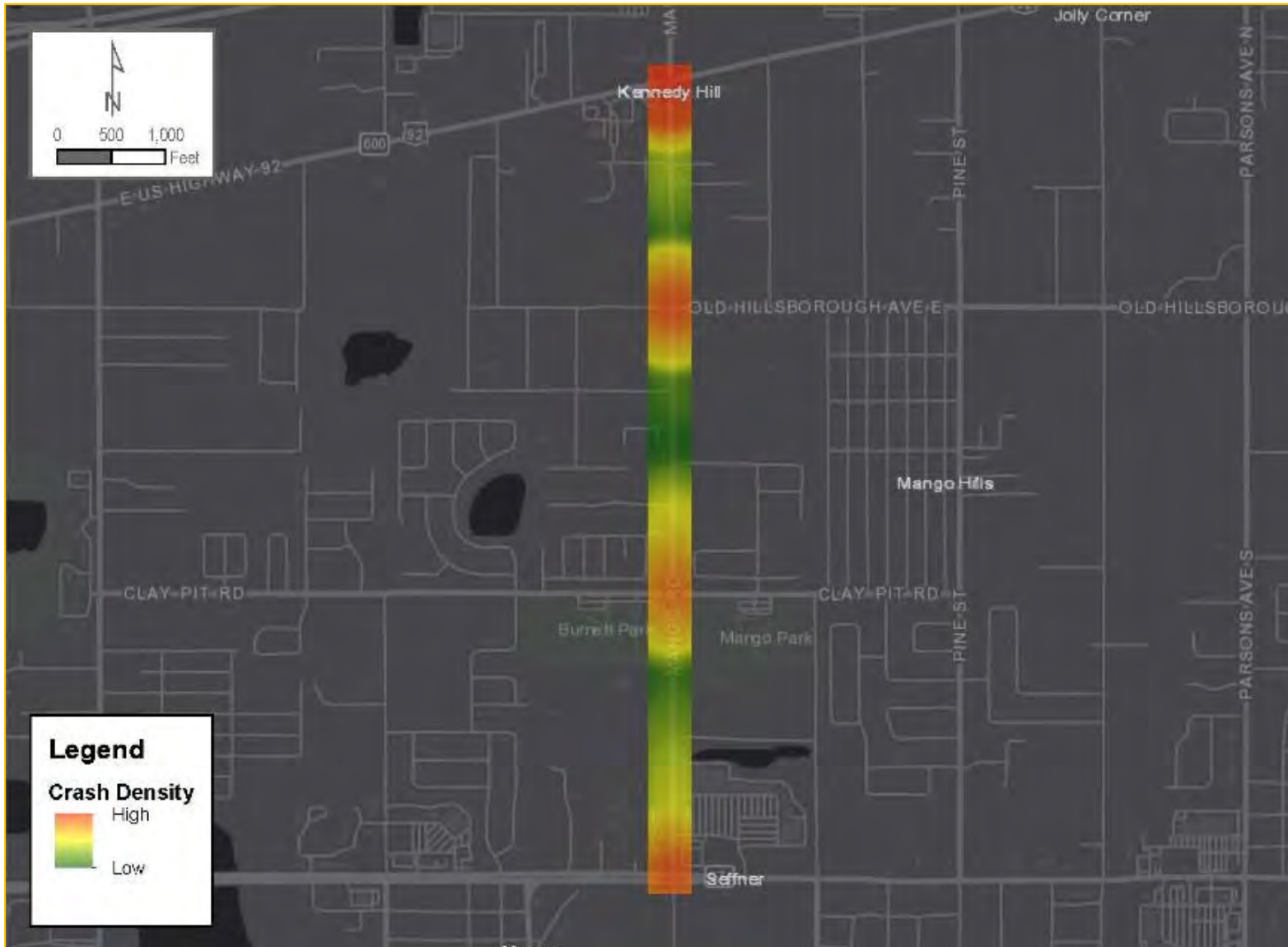


- Fatal Crashes: 1
- Serious Injury Crashes: 20
- 2.3% of crashes involved a pedestrian or bicyclist
- Rear End crashes: 47% of all crashes and 38% of fatal and serious injury crashes
- 43% of fatal or severe crashes occurred during dark, dusk, or dawn conditions



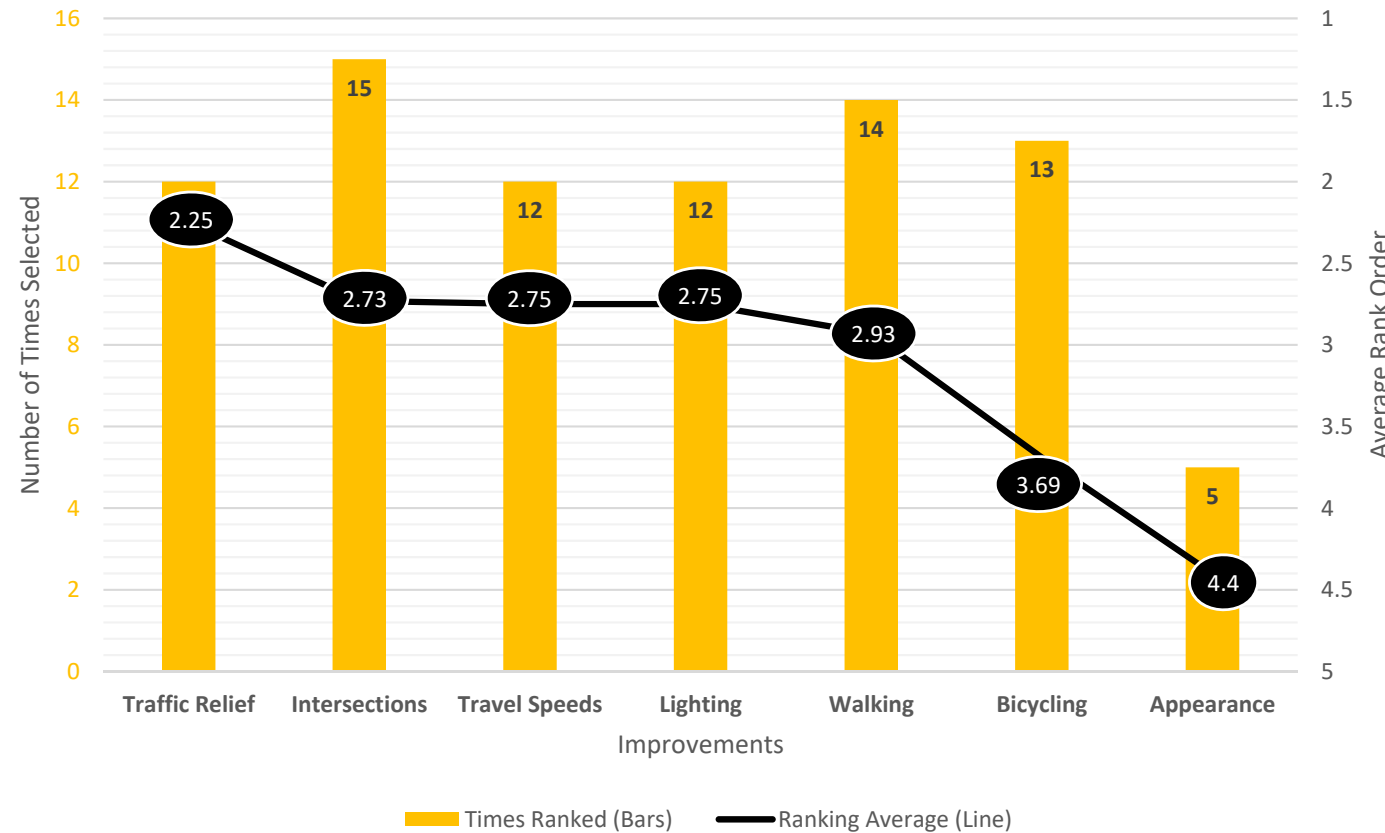
- Serious Injury Crashes: **20**
 - Primarily concentrated at intersections along the corridor
- Fatal Crashes: **1**
 - Involved a pedestrian












Safety Priorities

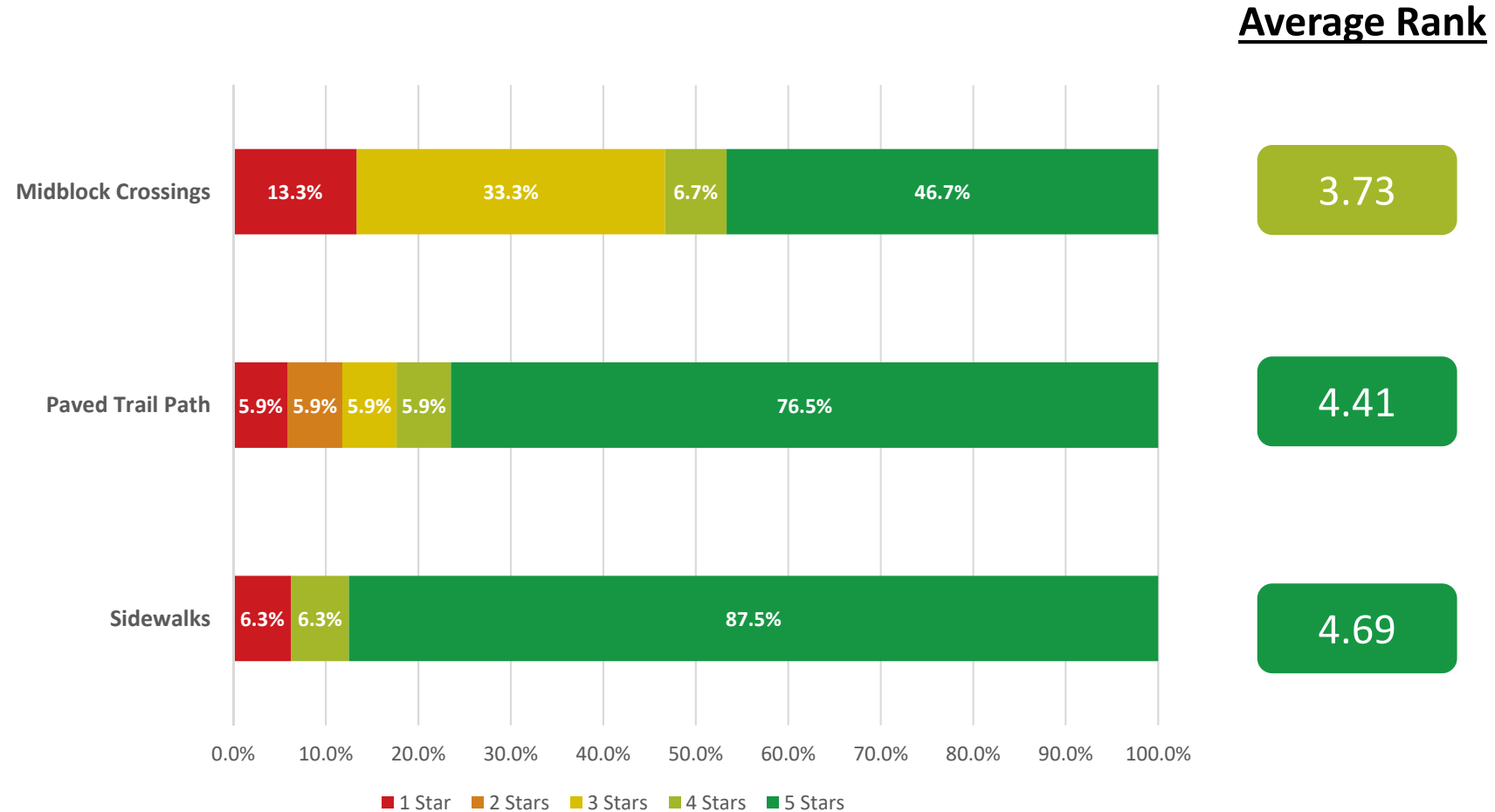
- **Intersection:** most frequently ranked
- **Appearance:** least frequently ranked and lowest average rank
- **Traffic Relief:** highest average rank



-  Traffic Relief
-  Intersections
-  Travel Speeds
-  Lighting
-  Walking
-  Bicycling
-  Appearance

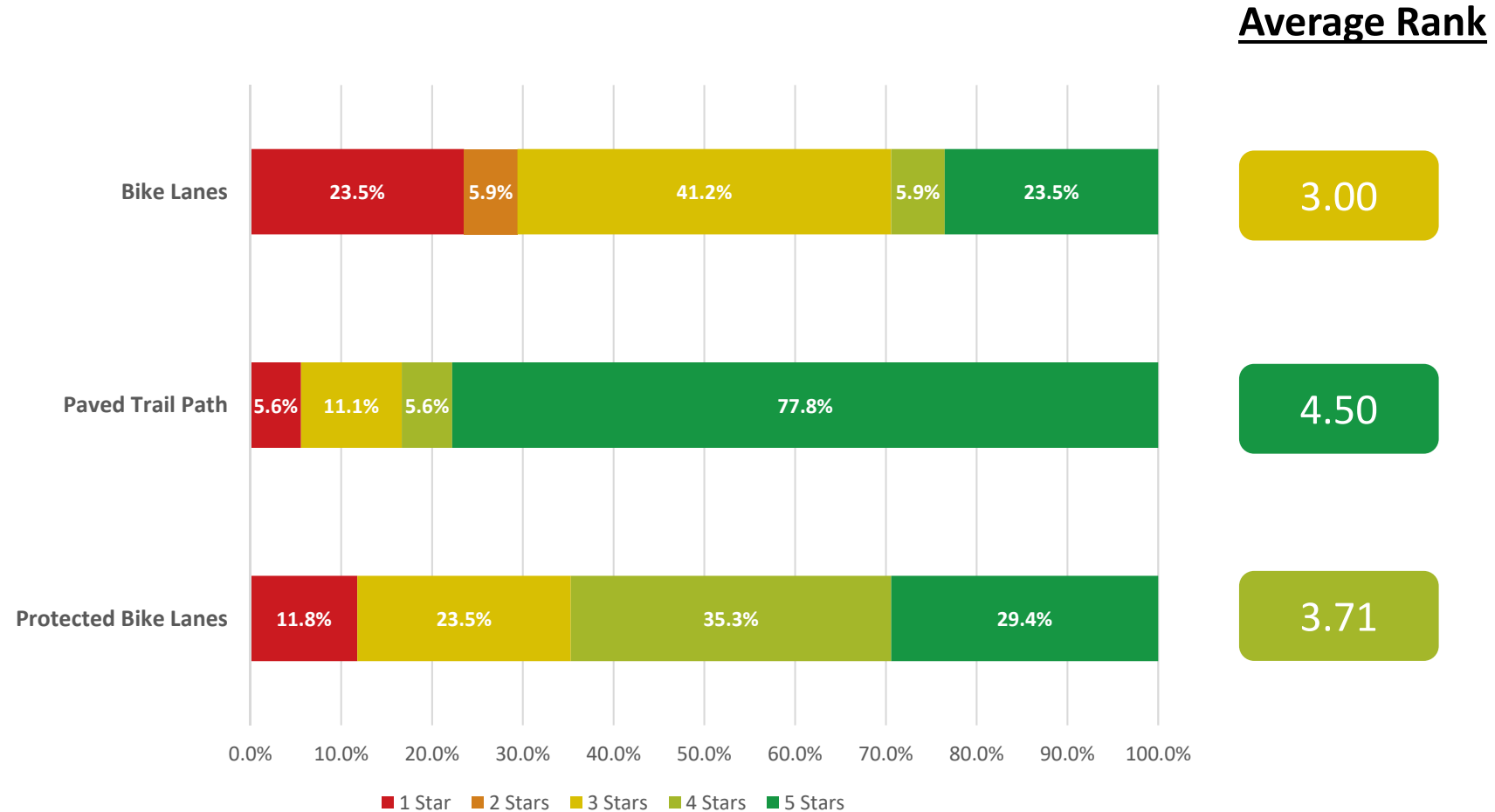
Preferred Improvements - Pedestrians

- Of all Pedestrians Improvement options, **Sidewalk** had the highest average rank
- **Midblock Crossing** had the lowest average rank of all Pedestrians Improvement options



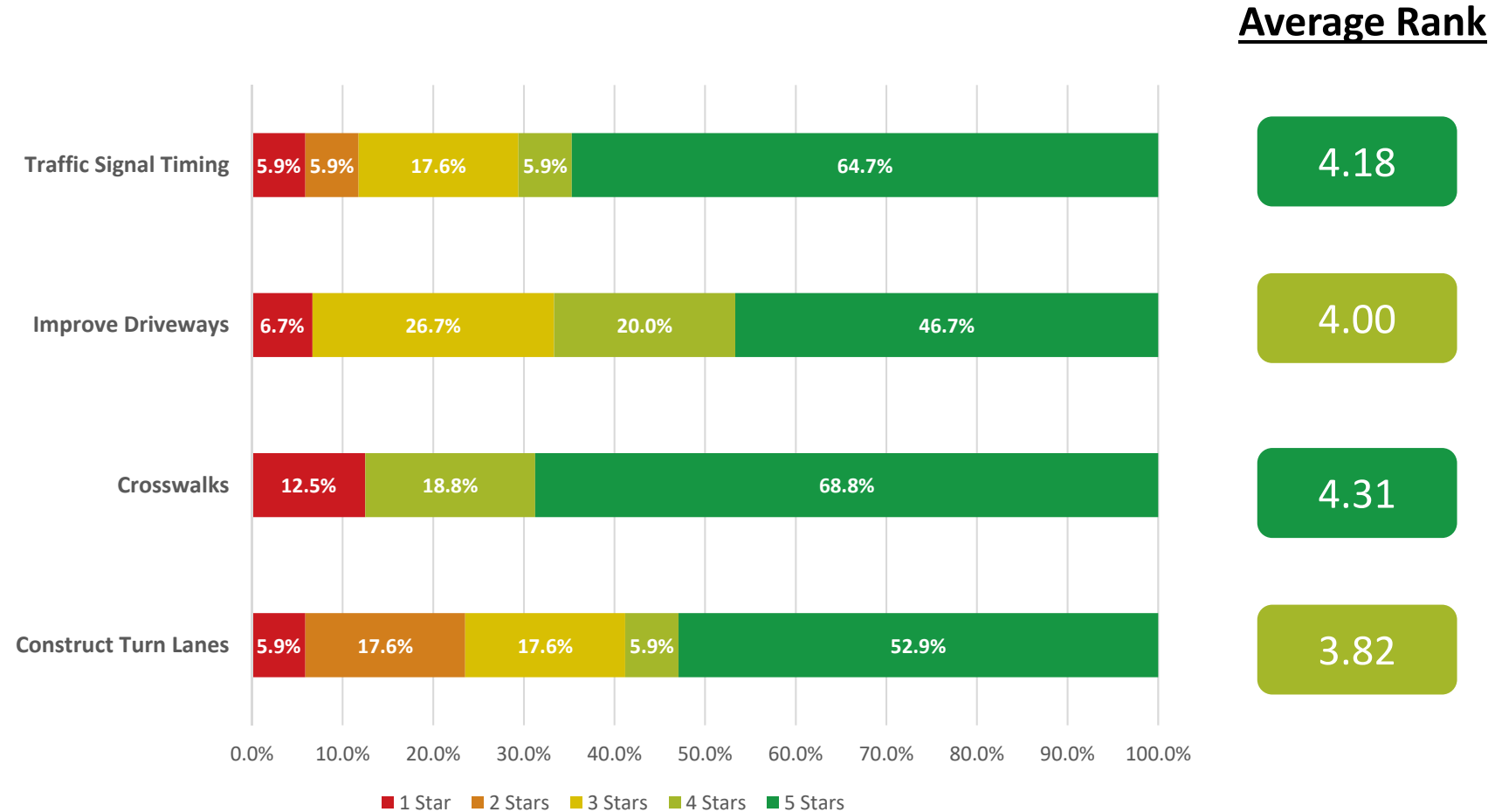
Preferred Improvements - Bicyclists

- Of all Bicyclist Improvement options, **Paved Trail / Path** had the highest average rank
- **Bike Lanes** had the lowest average rank of all Bicyclist Improvement options



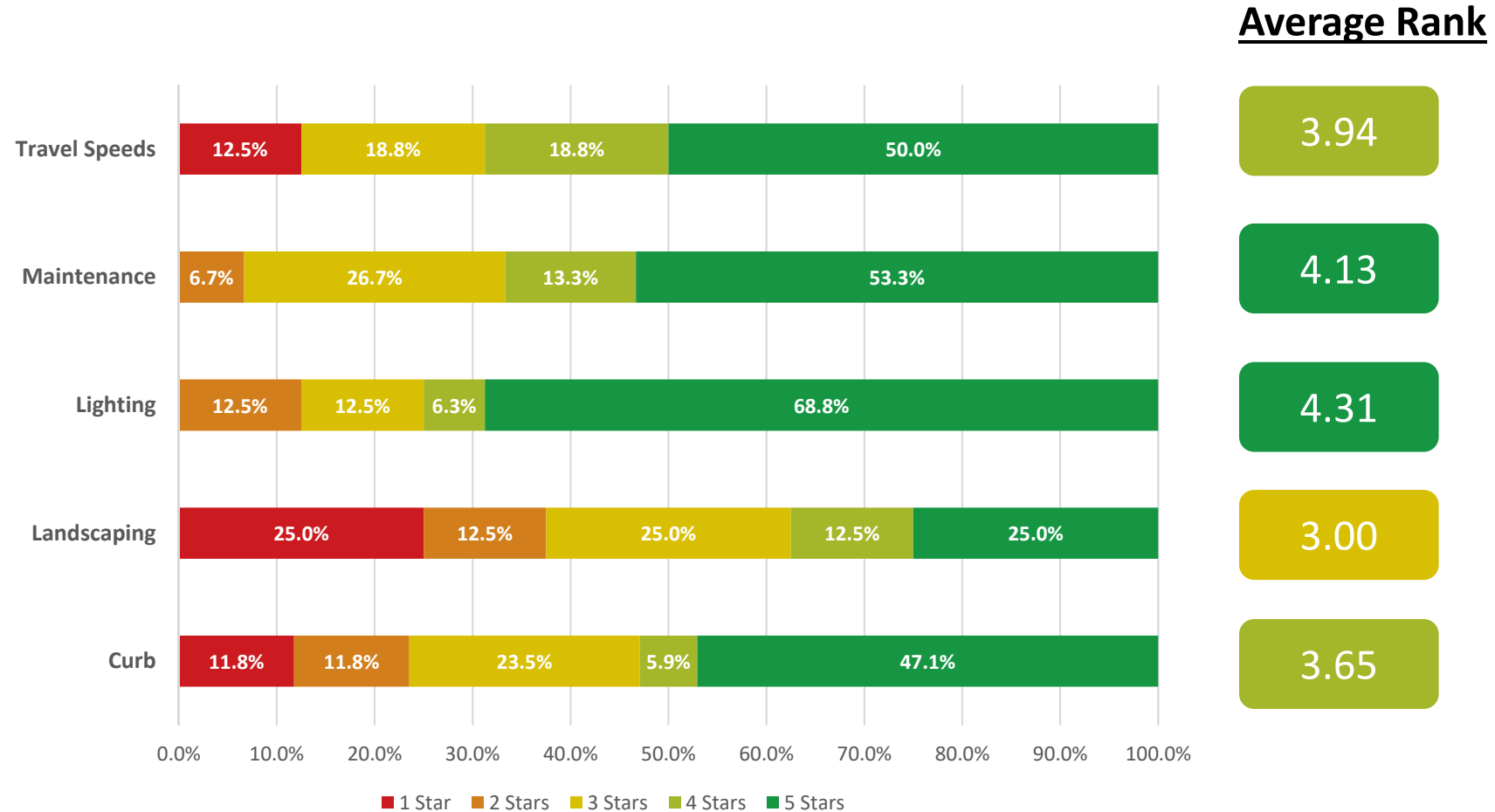
Preferred Improvements - Intersections

- Of all Intersections Improvement options, **Crosswalks** had the highest average rank
- **Construct Turn Lanes** had the lowest average rank of all Intersection Improvement options



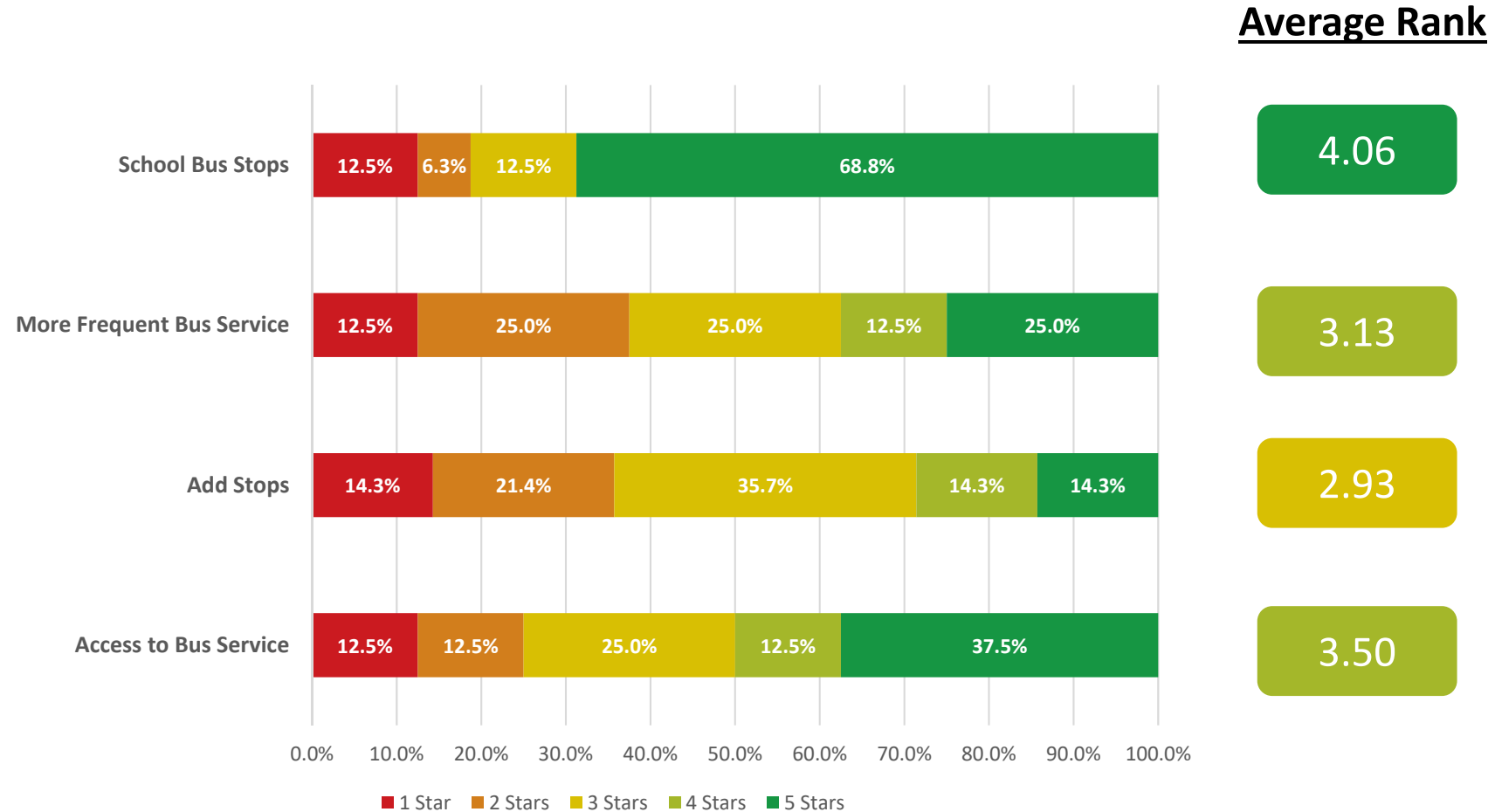
Preferred Improvements - Streets

- Of all Streets Improvement options, **Lighting** and **Maintenance** had the highest average ranks
- **Landscaping** had the lowest average rank of all Streets Improvement options



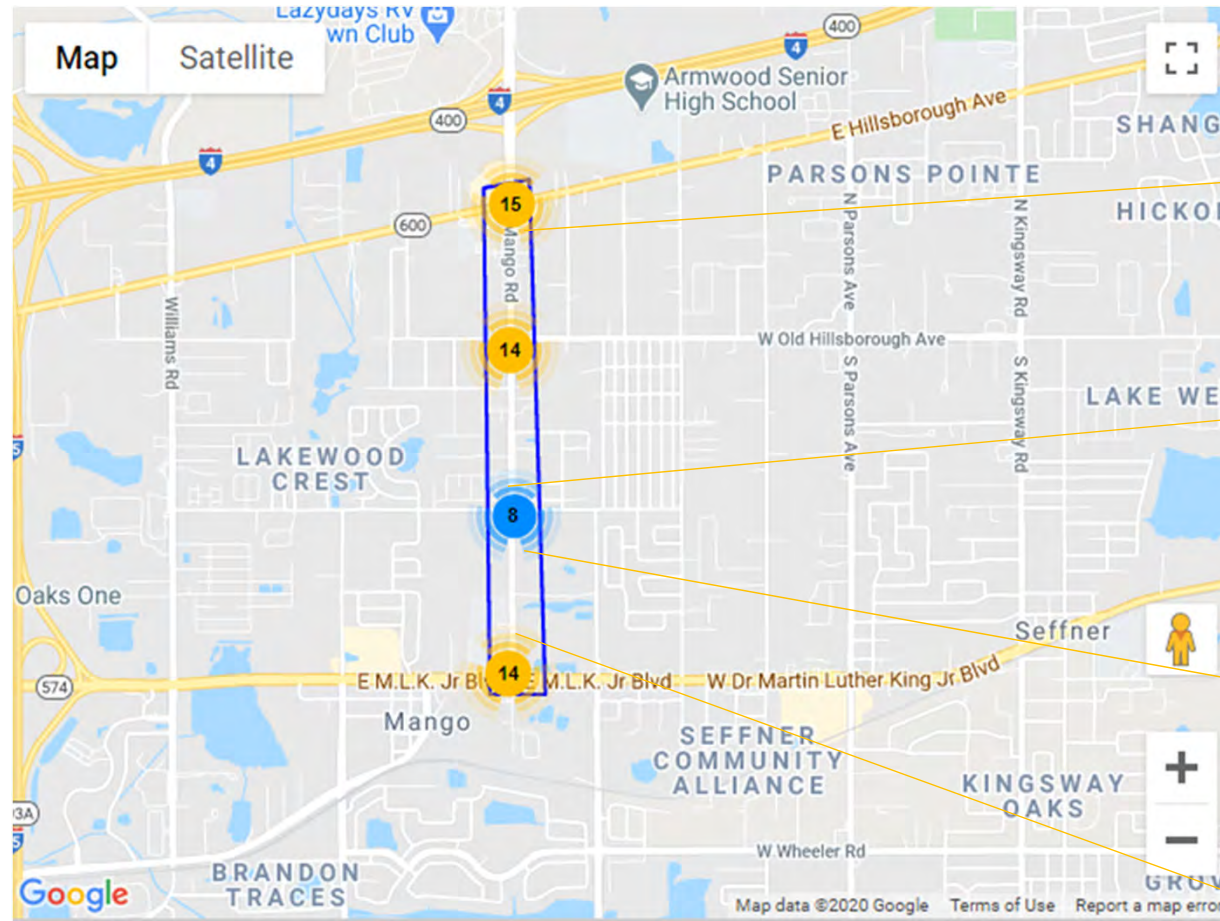
Preferred Improvements – Bus Service

- Of all Bus Service Improvement options, **School Bus Stops** had the highest average rank
- **Add Stops** had the lowest average rank of all Bus Service Improvement options



Areas of Concern

- 51 total points mapped
 - Majority of points (38) mapped at intersections along the corridor
- Most Safety Concern points were indicated **unsafe crossings, narrow sidewalks, and unsafe vehicles nearby**
- Project Idea points indicated ideas for **new sidewalk and intersection improvements**



- "Needs sidewalk on east side."
- "Installing crosswalk for pedestrians to cross."
- "Road needs curb to make bikes and walkers on sidewalk feel safe."
- "Need a turn lane to go into shopping center / school."
- "Road needs curb to make bikes and walkers on sidewalk feel safe."

One Word | **Today**, Mango Road is....



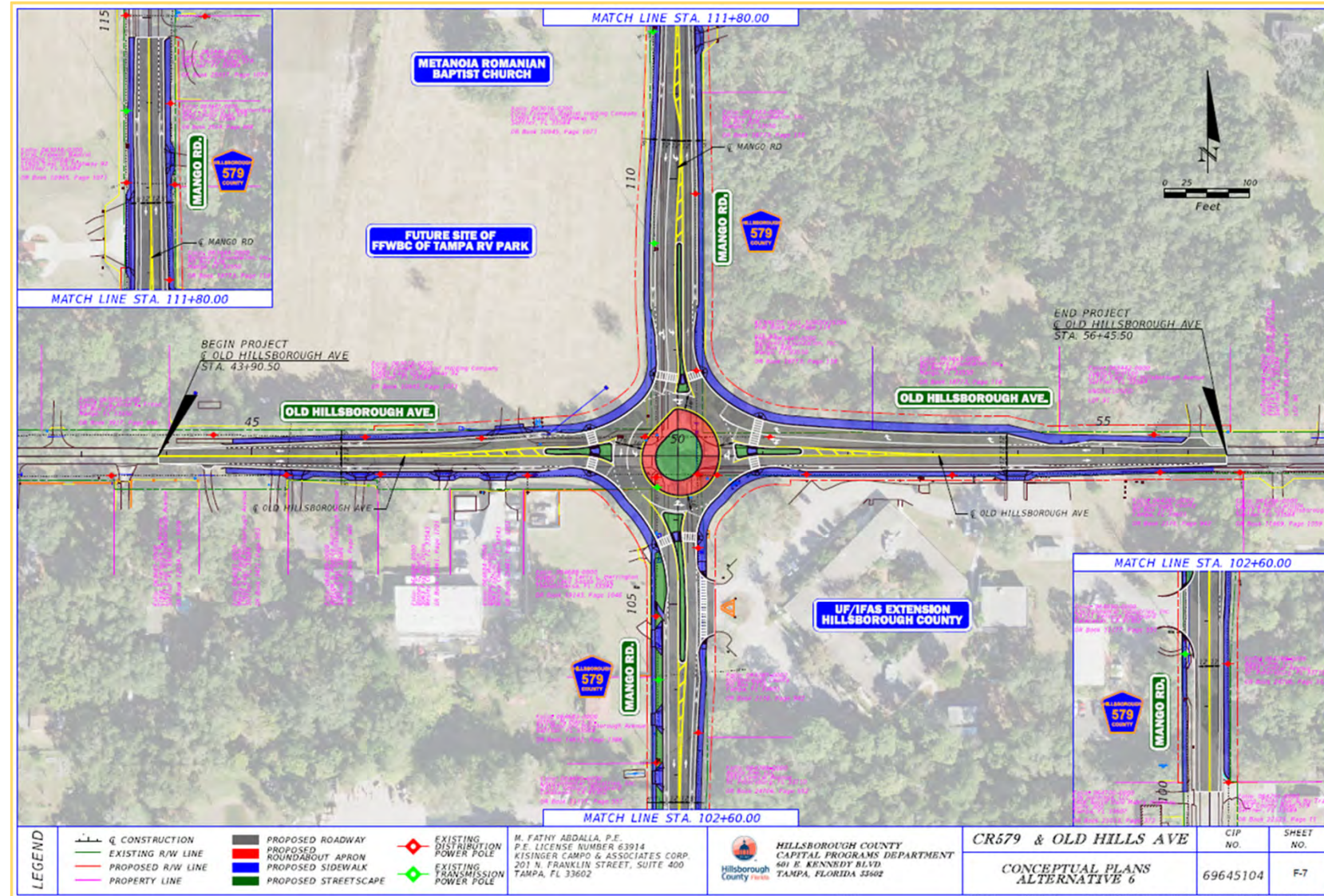
One Word | My **vision** for Mango Road is....



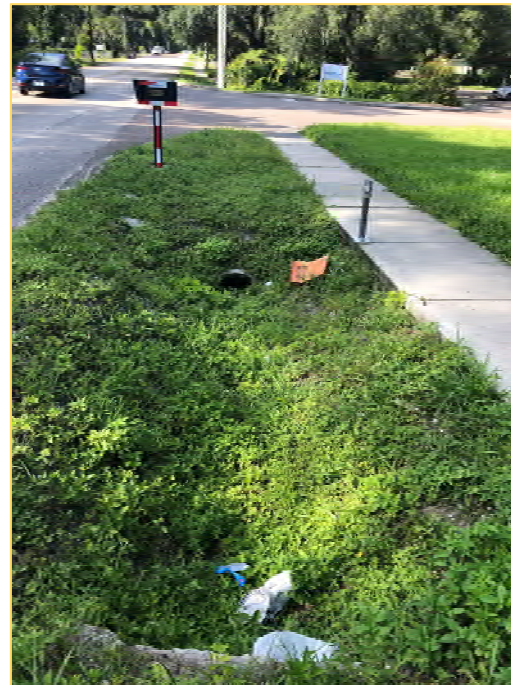
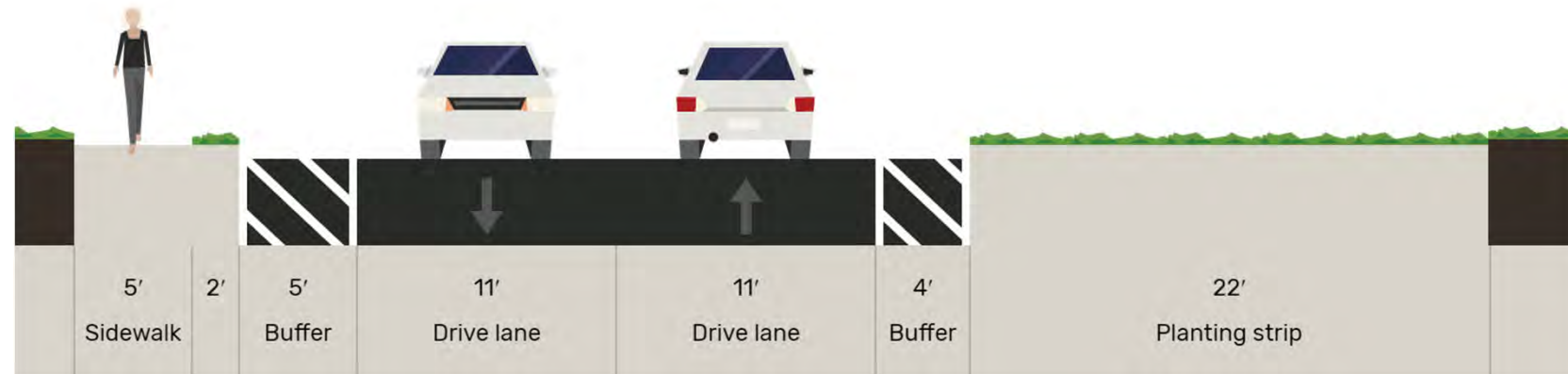
Roundabout

- At Old Hillsborough Avenue
- Alternative 6 from the CIP LPER Report

- Recommend adding speed feedback signs due to grade change



- Maintenance
 - Update pavement markings
 - Drainage improvements
- Intersection Improvements
- Traffic Calming
- Lighting
- Pedestrian Improvements
- Landscaping



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Mango Road/CR 579

Raised Medians



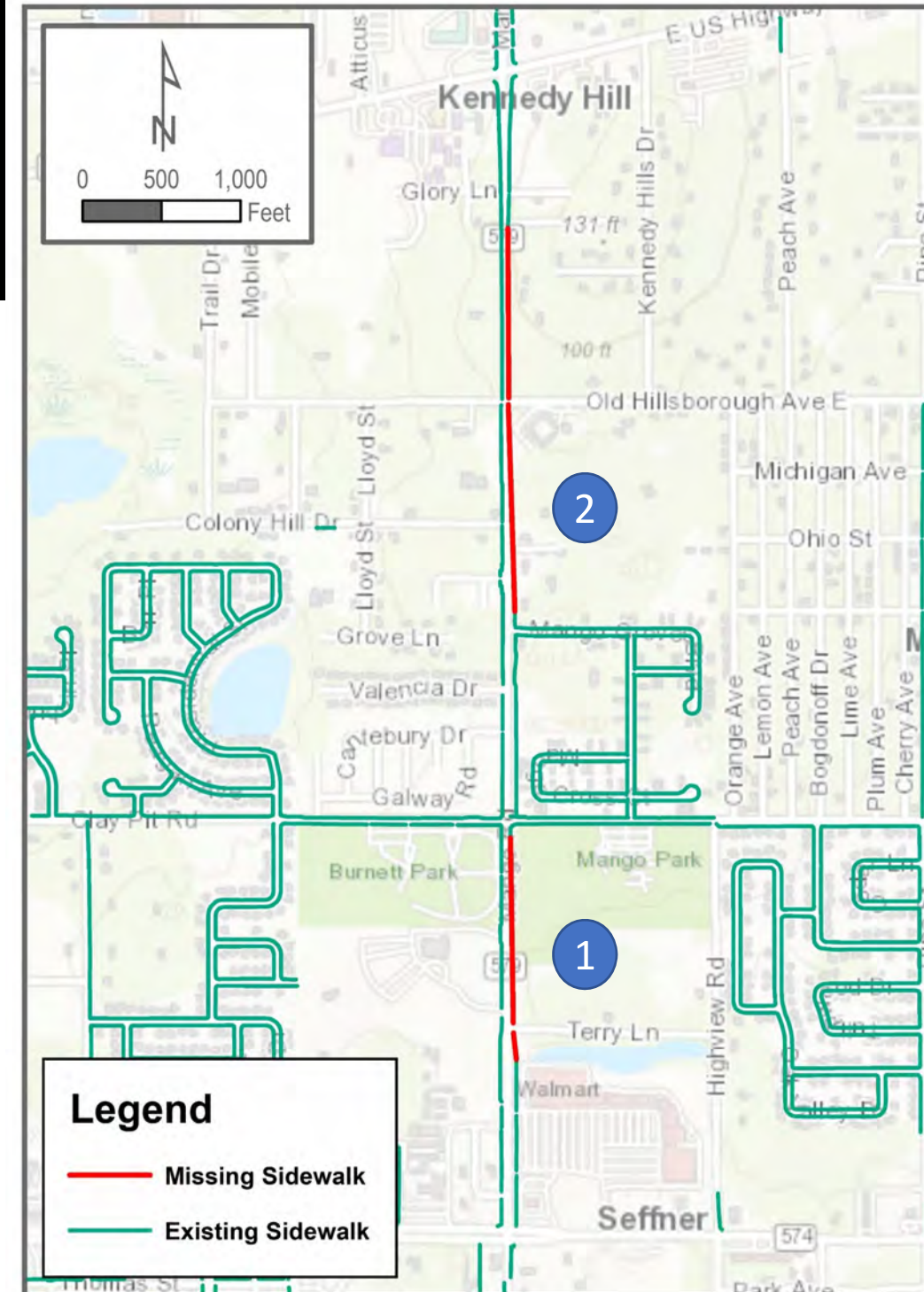
**INTERSECTION IMPROVEMENTS:
MANGO RD from MANGO RIDGE BLVD TO MANGO GROVES BLVD**



VISION ZERO
MANGO ROAD

Pedestrian Improvements

- Crosswalks and detectable warnings at all minor streets
- Construct sidewalk along west side of corridor
 1. Existing shopping center to Mango Park
 2. Mango Boulevard to Old Hillsborough



- Intersection lighting
 - Upgrade existing lighting at intersections to latest County standards
 - Provide lighting along entire corridor
- Landscaping
 - Short-term priority near park
 - Implement erosion control measures near park
 - Appears vehicles are parking along roadway next to the park



Intersection Improvements:

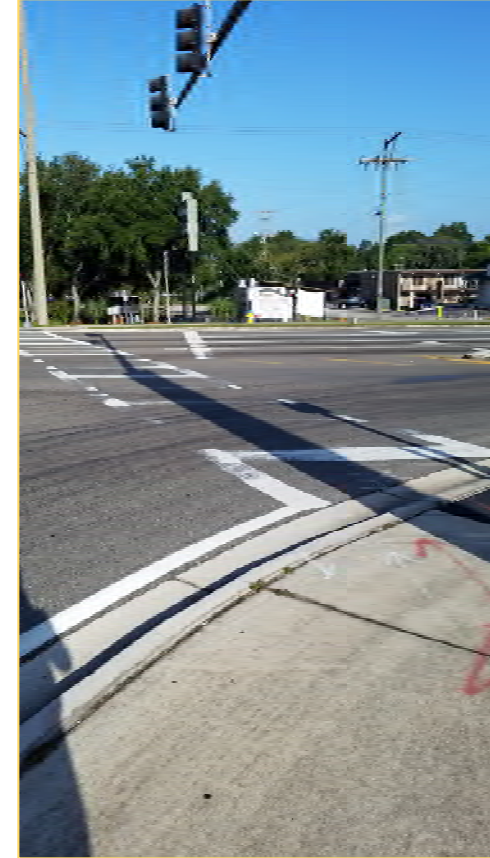
- US 92 & Mango Road
- Clay Pit Road & Mango Road
- Canterbury Drive & Mango Road
- Mango Ridge Blvd & Mango Road
- Valencia Drive & Mango Road
- Walmart Driveways



Mango Road & Clay Pit Road



Mango Ridge Blvd



Mango Road & US 92



IMPROVEMENTS KEY

- 1 LANDSCAPE MEDIAN
- 2 RECONSTRUCT CURB RAMP & CROSSWALK
- 3 4-SECTION HEAD SIGNAL & BACK PLATES
- 4 SKIP STRIPING
- 5 PEDESTRIAN LIGHTING





IMPROVEMENTS KEY

- 1 LEADING PEDESTRIAN INTERVAL (LPI)
- 2 REPAINT CROSSWALKS
- 3 SIGNAL BACK PLATES
- 4 CURB & GUTTER
- 5 ADD SIDEWALKS





CANTERBURY DR

MANGO ROAD

IMPROVEMENTS KEY

1 LEFT TURN LANE

2 CURB & GUTTER



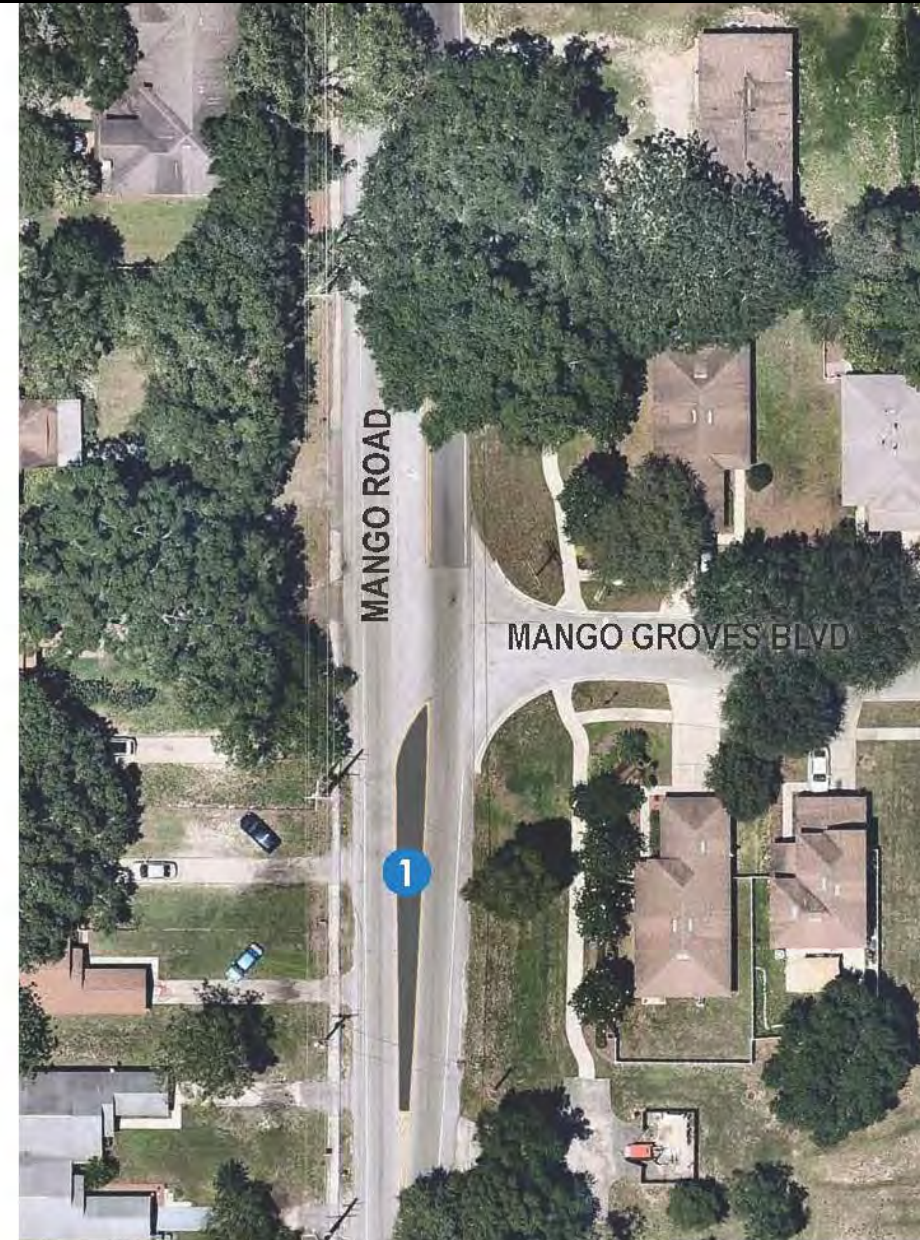
Intersection Improvements

- Crosswalks along minor streets
- Detectable warnings
- Refresh stop bar



Intersection Improvements

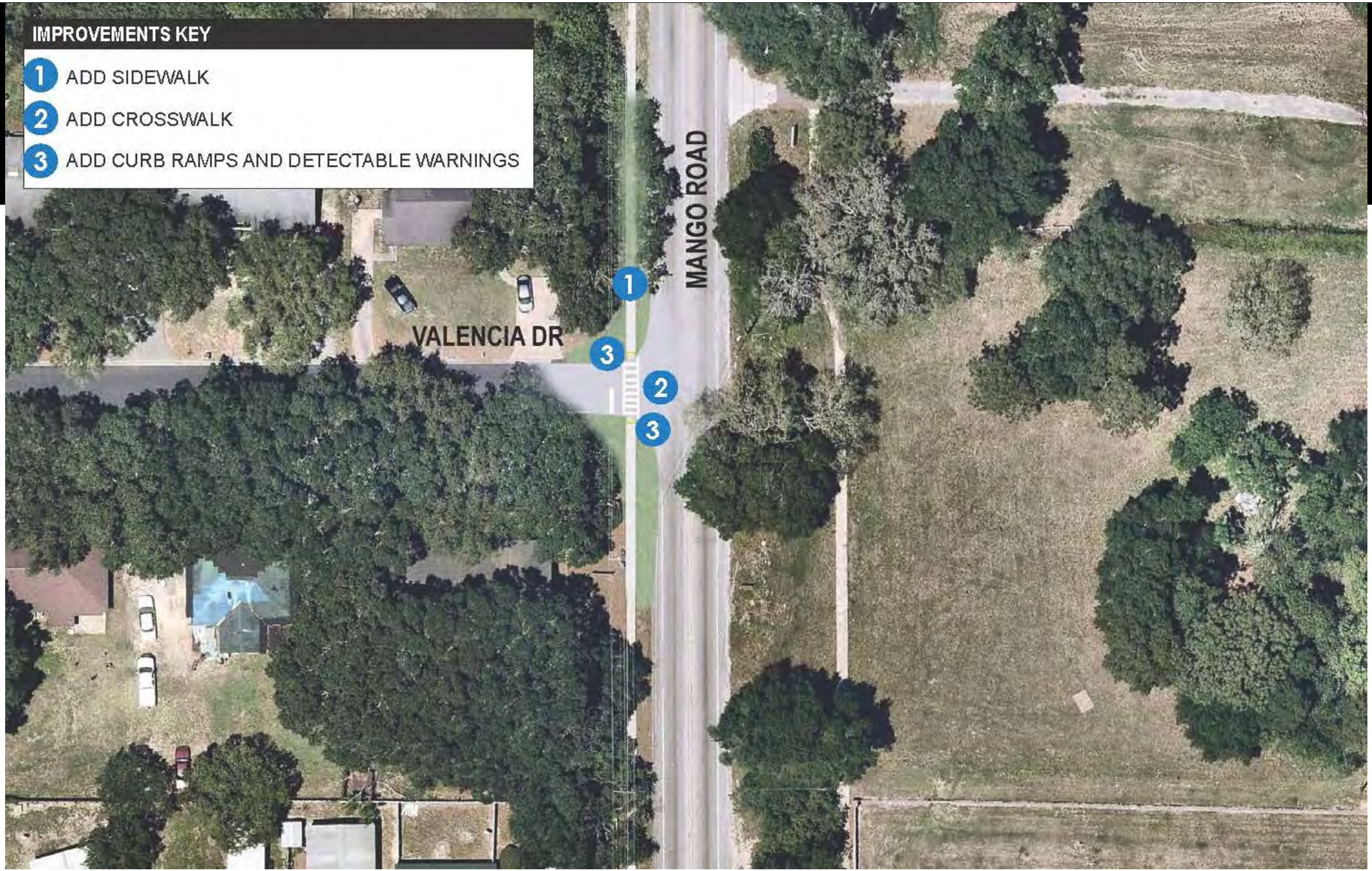
- Crosswalks along minor streets
- Detectable warnings
- Refresh stop bar





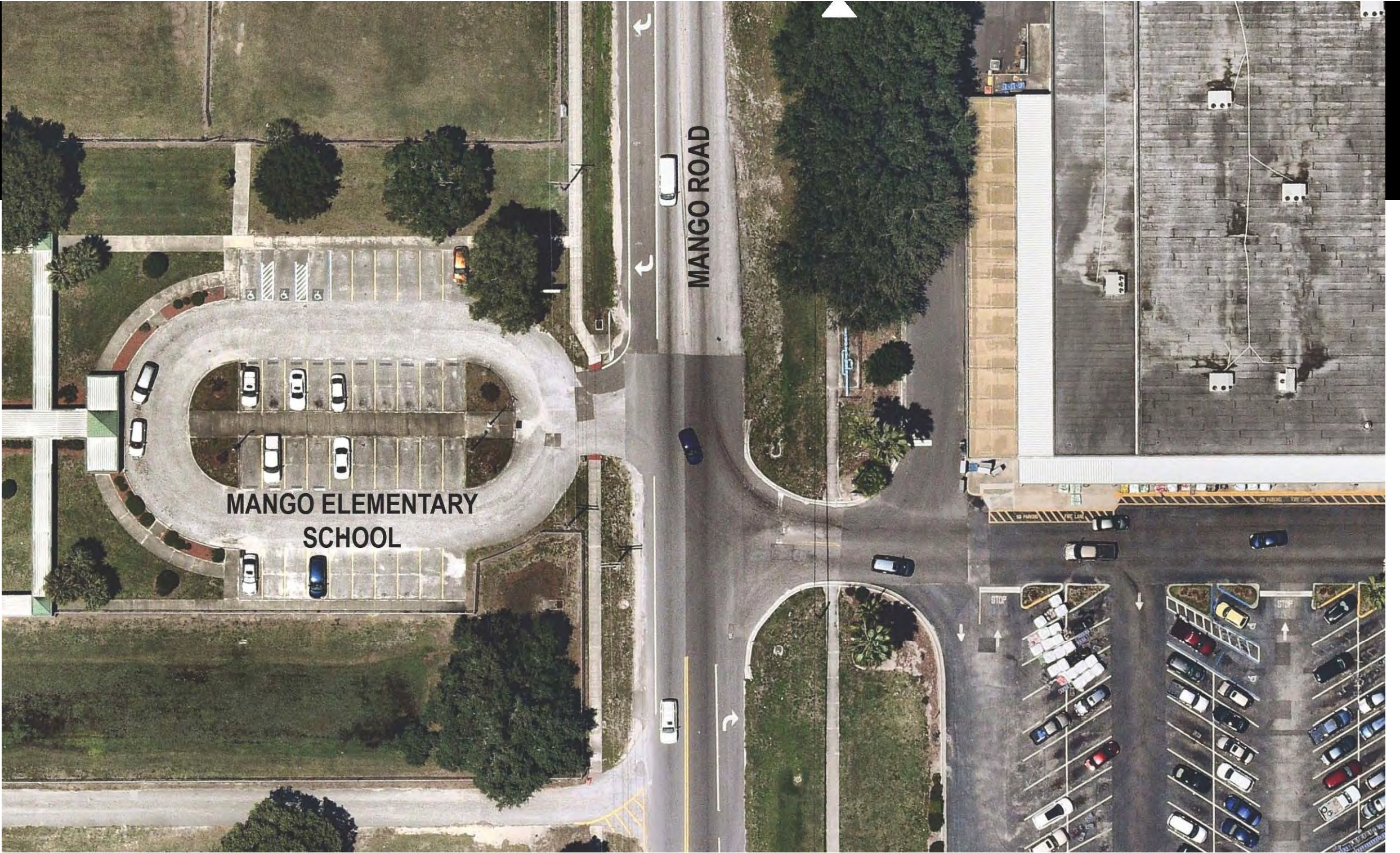
IMPROVEMENTS KEY

- 1** ADD SIDEWALK
- 2** ADD CROSSWALK
- 3** ADD CURB RAMP AND DETECTABLE WARNINGS









**MANGO ELEMENTARY
SCHOOL**

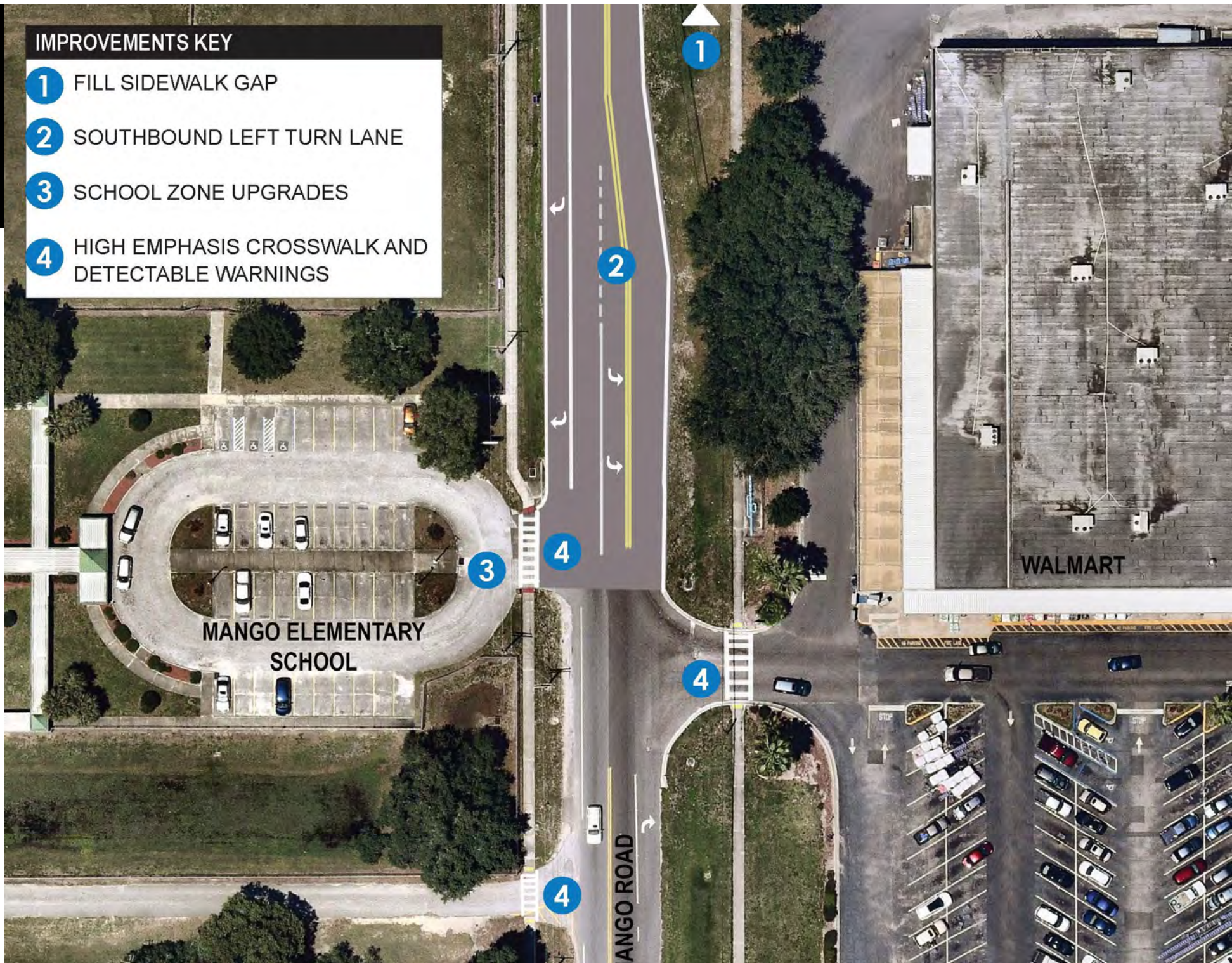
MANGO ROAD

STOP

STOP

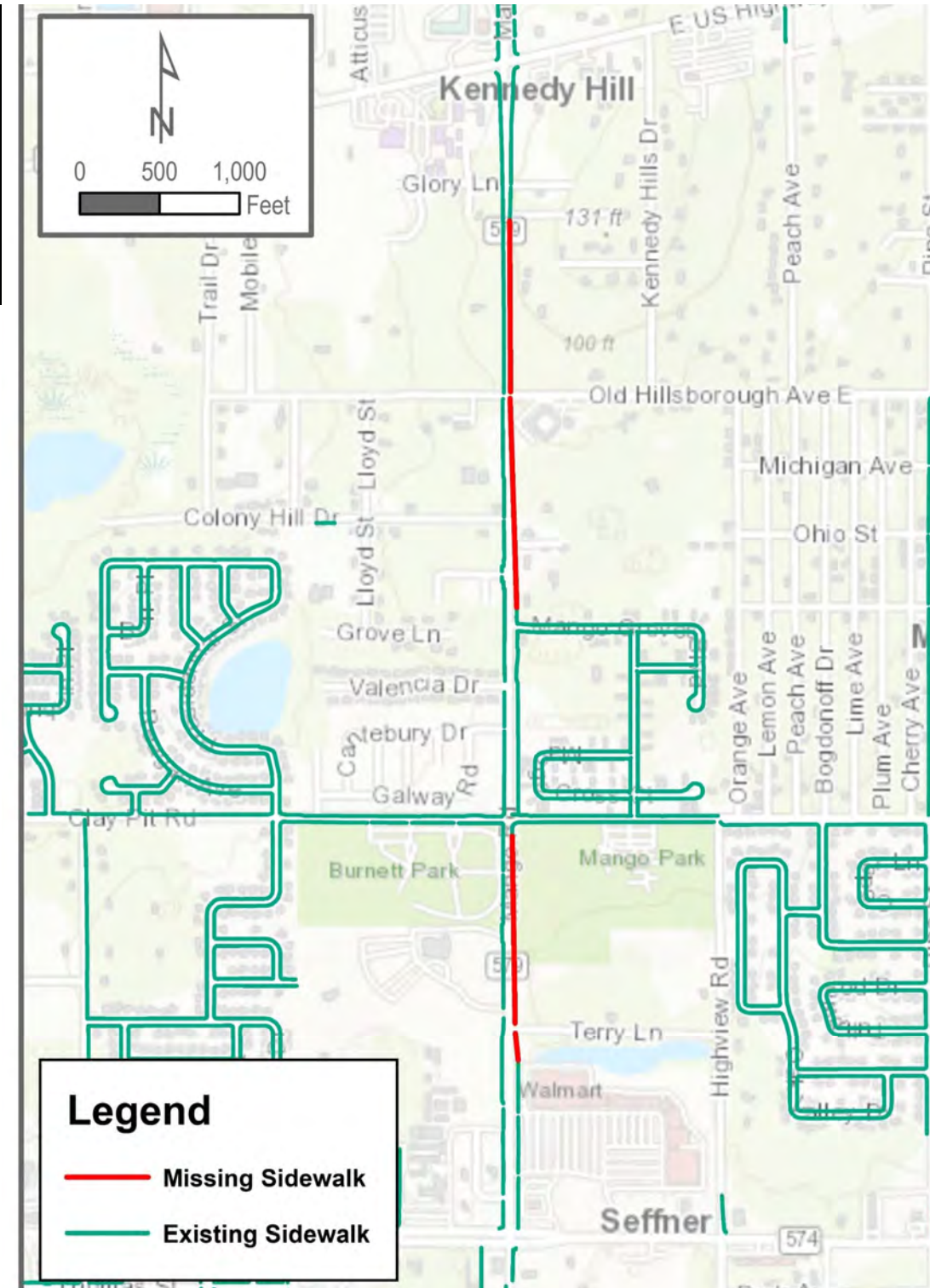
IMPROVEMENTS KEY

- 1** FILL SIDEWALK GAP
- 2** SOUTHBOUND LEFT TURN LANE
- 3** SCHOOL ZONE UPGRADES
- 4** HIGH EMPHASIS CROSSWALK AND DETECTABLE WARNINGS



Long term improvements:

- Shared use path along west side of corridor
- Complete sidewalk from US 92 to Old Hillsborough Avenue



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Next Steps

- Planning level costs
- Finalize concepts
- Report documentation

