

SCHOOL ROUTES ANALYSIS

CROTON ELEMENTARY SCHOOL

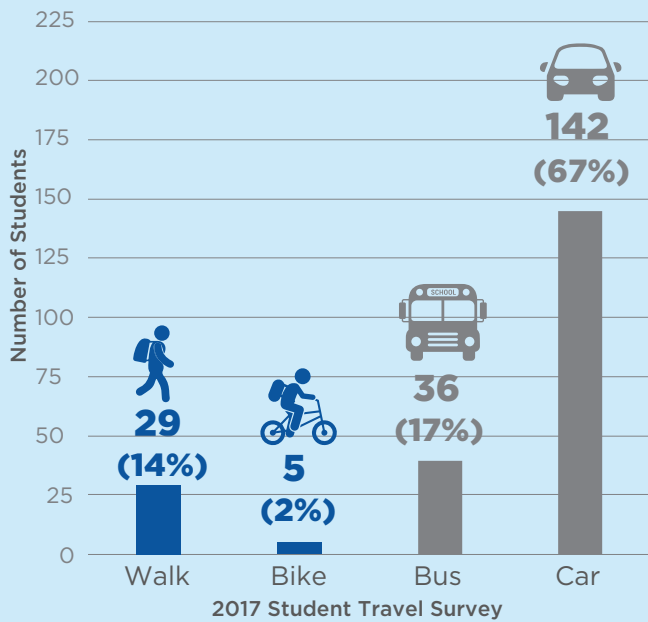


GRAPHICAL SUMMARY REPORT

JULY 2020



Student Travel Modes (2017)



Total Bicycle & Pedestrian Crashes within Study Area

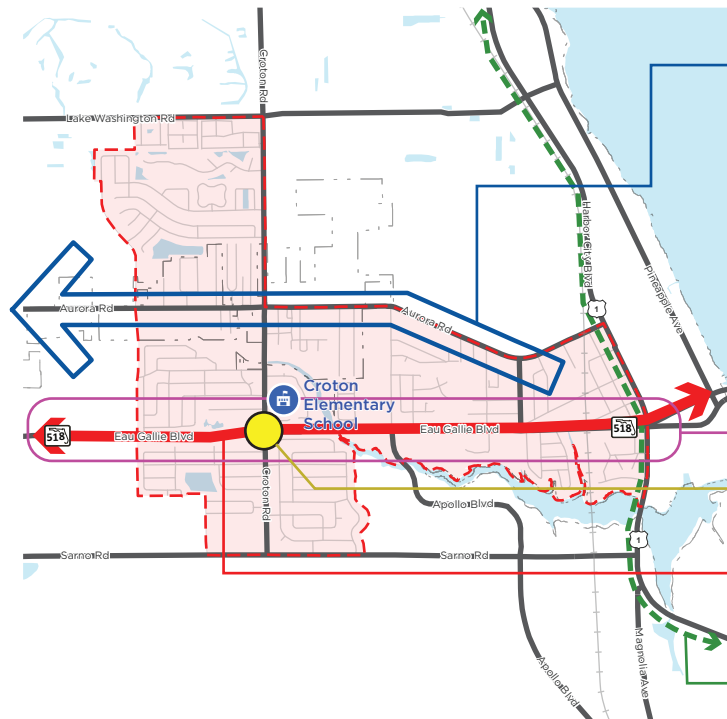


School Aged Bicycle & Pedestrian Crashes within Study Area



2014 to 2018 Crashes from University of Florida's Signal Four Analytics Database

Signals and Crossings within Study Area



Previous & Ongoing Plans

Aurora Road Corridor Study (2018)

- Reconstruct and restripe crosswalks and pedestrian ramps to make them ADA compliant.
- Add bicycle lanes in both directions.
- Widen sidewalk on south side to 6 feet, and add an 8 foot shared use path on north side.
- Add a new two-way center turn lane and reduce through lanes from two in each direction to one.

Eau Gallie Boulevard (SR 518) Multimodal Mobility and Safety Assessment (Ongoing)

Eau Gallie Boulevard (SR 518) and Croton Road Intersection Improvements (Ongoing)

Bicycle & Pedestrian Master Plan (Ongoing)

- Bicycle facilities prioritized along Eau Gallie Boulevard.

Showcase Trails Network

- Trail planned along US 1.

Figure 1: Background Information
School Routes Analysis
Croton Elementary School

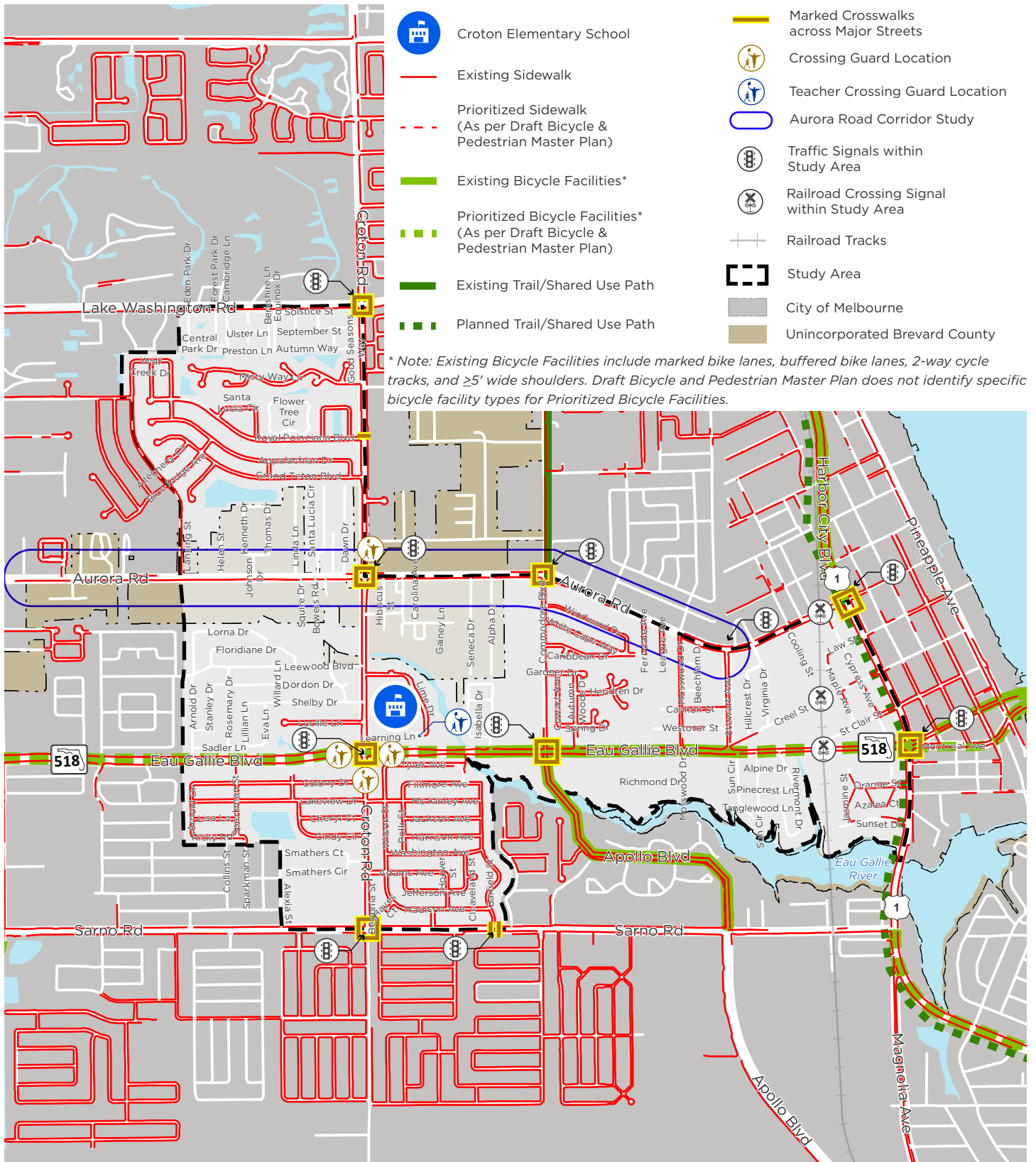


Figure 2: Existing and Planned Bicycle and Pedestrian Facilities

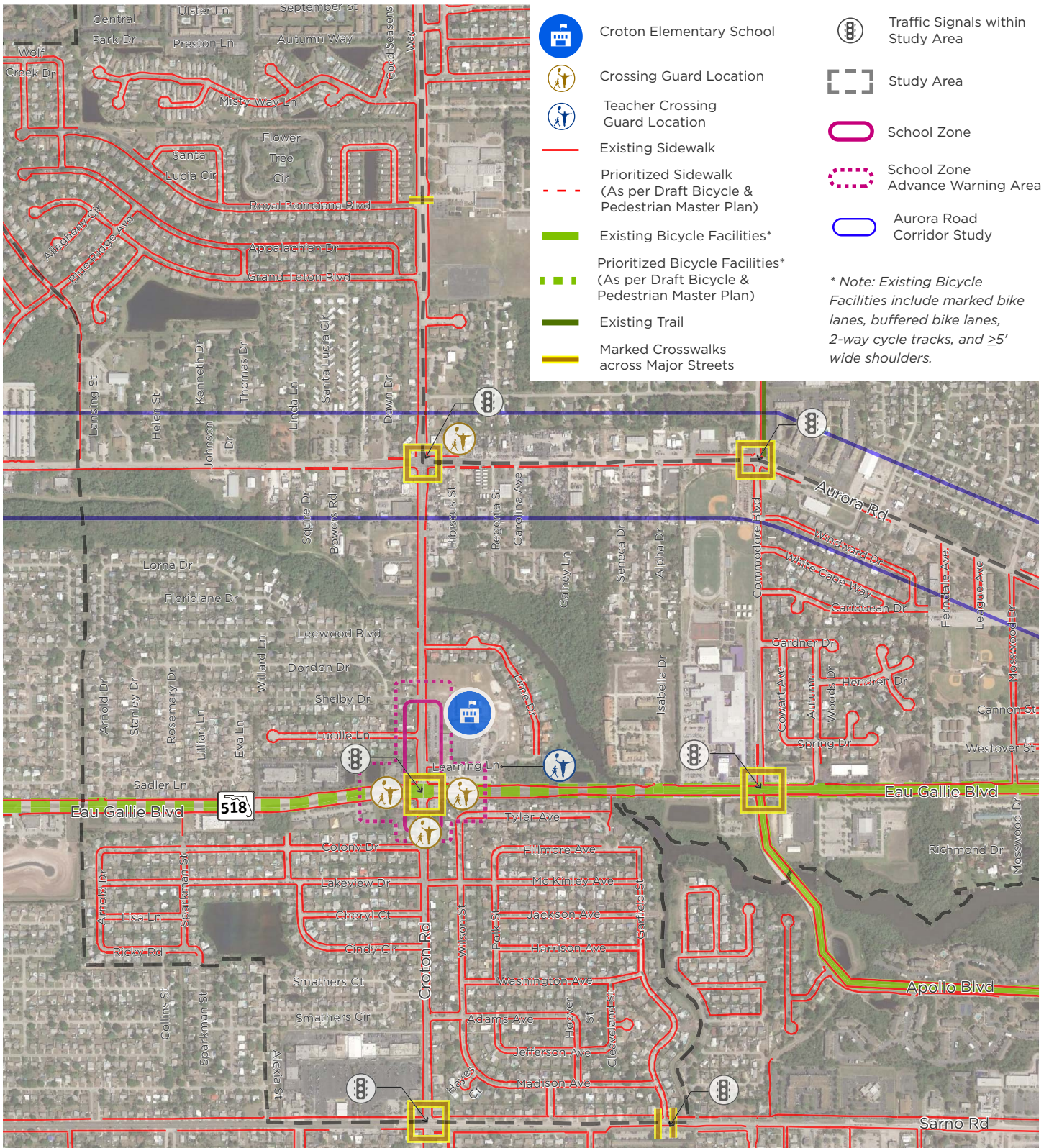


Figure 3: Existing Conditions School Context Aerial Map

School Routes Analysis
Croton Elementary School

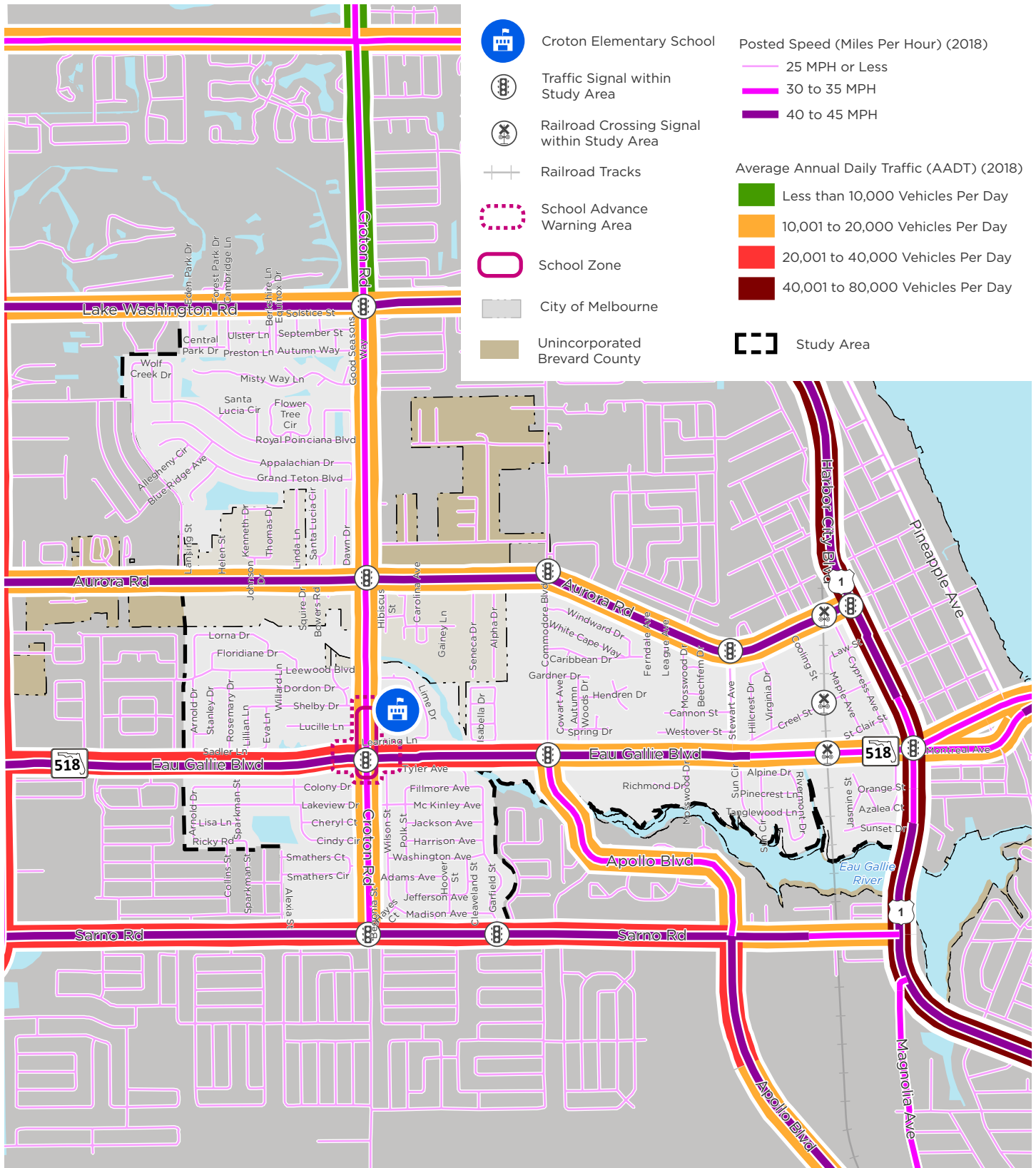


Figure 4: Existing Conditions Traffic Data
 School Routes Analysis
Croton Elementary School

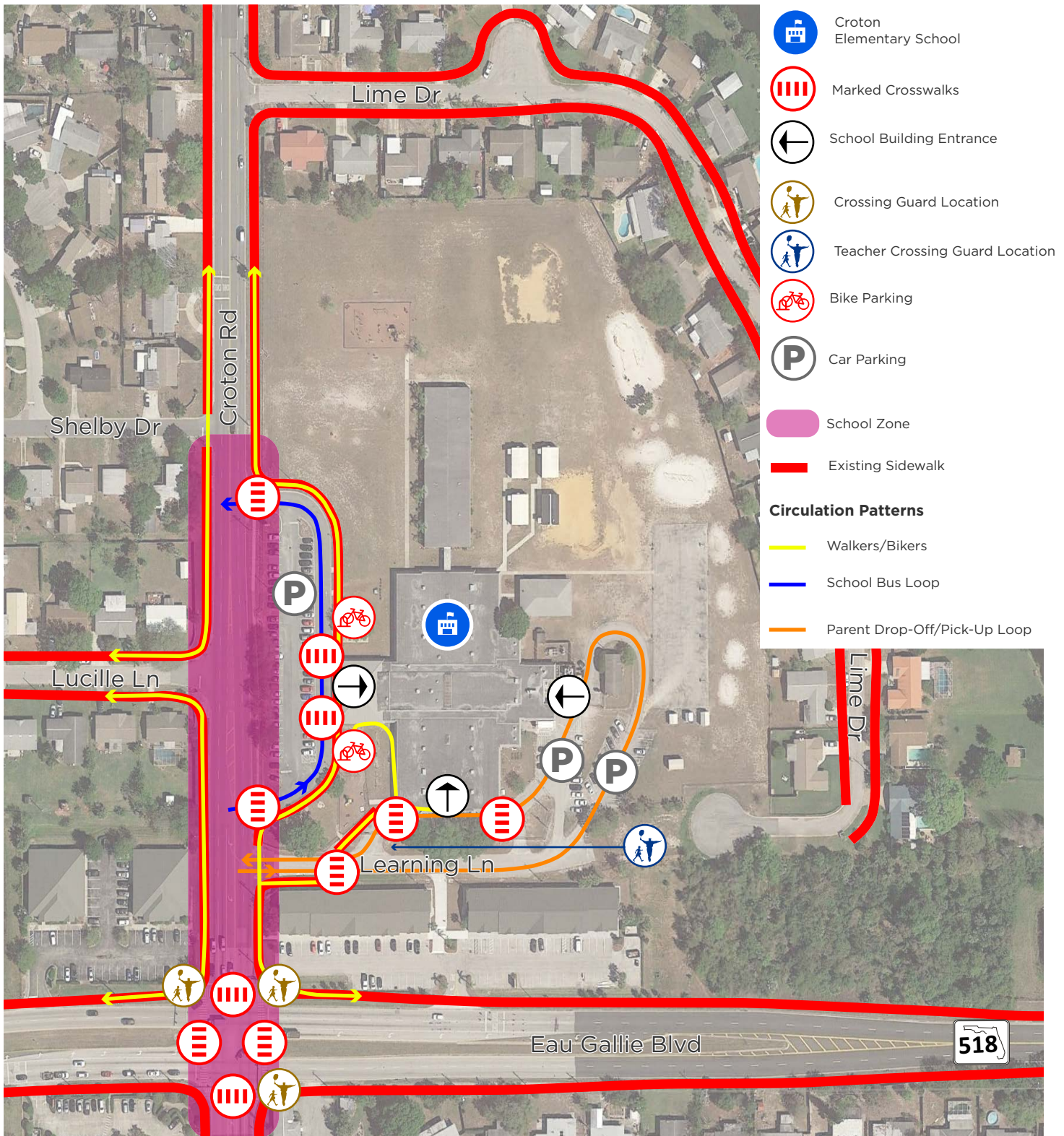


Figure 5: Existing School Circulation Map
 School Routes Analysis
Croton Elementary School

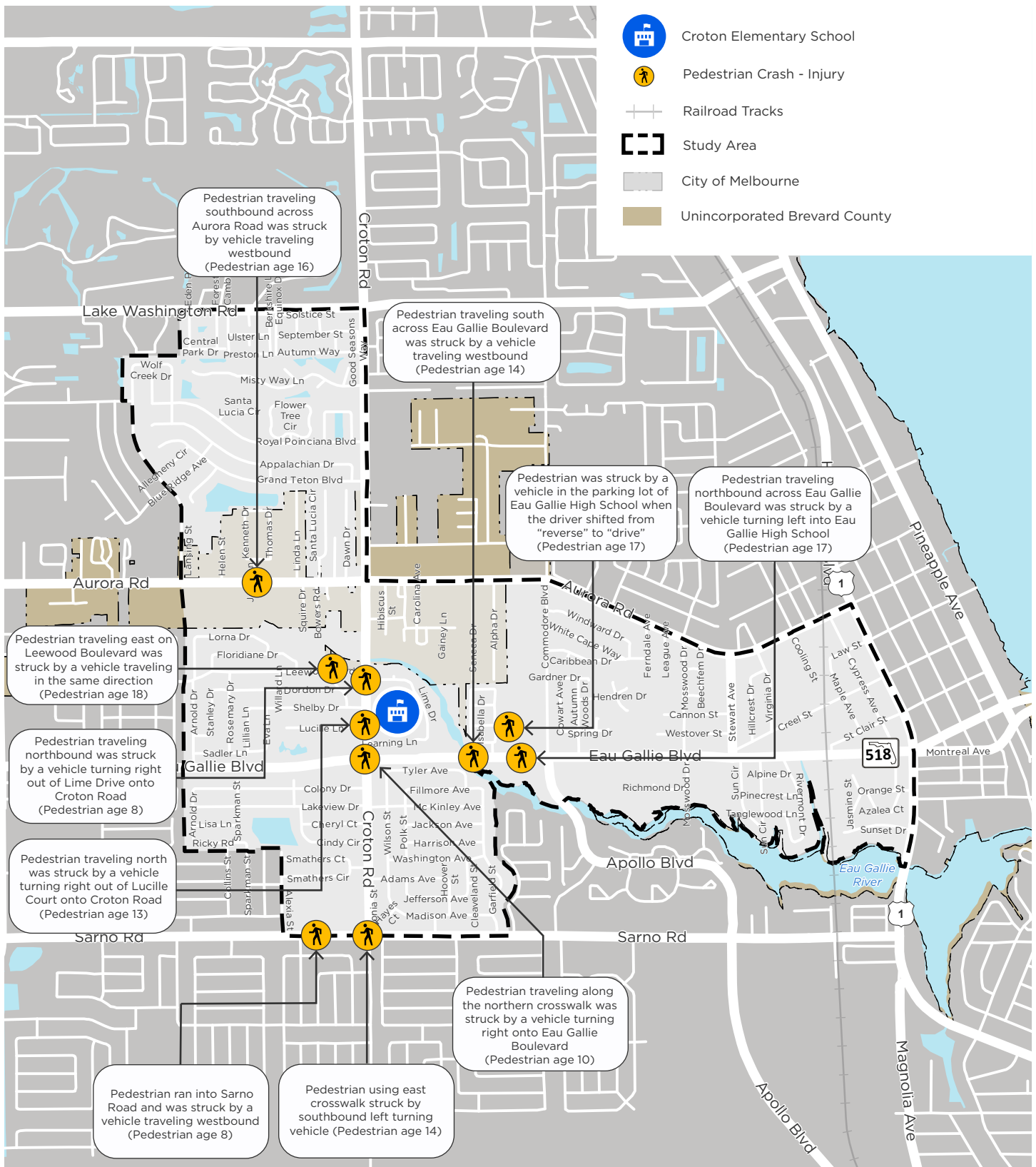


Figure 6: Bicycle and Pedestrian Crashes (2014 - 2018)

School Campus Recommendations

No.	Location	Recommendation	Type	Time-Frame	Cost Estimate
1	Western Parking Lot	Expand the western parking lot north to the edge of the dry pond.	School Circulation	Long-Term	Further Study Required
2	Eastern Parking Lot	Expand the eastern parking lot to the north and east.	School Circulation	Long-Term	Further Study Required
3	Southwest Corner of the Campus Along Learning Lane	Remove black fencing from Learning Lane and Southern Croton Driveway intersection sight triangles.	School Circulation	Near-Term	<\$10,000
4	South Side of the School Front Office	Replace bicycle parking rack.	School Circulation	Maintenance	<\$10,000
5	School Property	Replace old signage.	Sign/Signal	Maintenance	<\$10,000

Study Area Recommendations

No.	Location	Recommendation	Type	Time-Frame	Cost Estimate
6	Eau Gallie Boulevard and Croton Road Intersection	Conduct a feasibility study to add a westbound right turn lane at the Eau Gallie Boulevard/Croton Road intersection.	Roadway	Long-Term	Further Study Required
7	Eau Gallie Boulevard and Croton Road Intersection	Implement FDOT Eau Gallie Boulevard and Croton Road Intersection Improvement Plan - Install "No Turn on Red" blank out signage active during school zone hours. Remove current "No Turn on Red" signage.	Previous Study (Intersection)	Near-Term	\$25,000 to \$30,000

Recommendations Table

School Routes Analysis Croton Elementary School



Study Area Recommendations

No.	Location	Recommendation	Type	Time-Frame	Cost Estimate
8	Eau Gallie Boulevard	Implement FDOT Eau Gallie Boulevard Multimodal Mobility and Safety Assessment recommendation - Adjust school zone to include the entire intersection. Update timing to include early day on Friday. Update signage and pavement markings to be consistent with the FDOT Speed Zoning Manual.	Previous Study (Corridor)	Near-Term	Further Study Required
9	Eau Gallie Boulevard and Croton Road Intersection	Add a crossing guard at the southwest corner of intersection to maintain one crossing guard for each leg of the intersection.	Crossing	Near-Term	Coordinate Staffing
10	Croton Road Just North of Eau Gallie Boulevard	Adjust school zone signs and pavement markings to be consistent with the FDOT Speed Zoning Manual. Adjust timing to include early release schedule on Friday.	Sign/Signal	Near-Term	Further Study Required
11	Croton Road Just North of Shelby Drive	Construct a midblock crossing with RRFB, a median refuge, and appropriate signage. Add a crossing guard at this intersection.	Crossing	Near-Term	\$750,000 to \$870,000 for Midblock Crossing; Coordinate staffing for Crossing Guard
12	Croton Road by Northwest Corner of the School Property	Remove the dead tree.	Maintenance	Maintenance	<\$10,000

Recommendations Table (Continued)

School Routes Analysis Croton Elementary School
















Study Area Recommendations

No.	Location	Recommendation	Type	Time-Frame	Cost Estimate
13	Signalized Intersections within the Study Area	Upgrade/install ADA compliant pedestrian ramps.	Crossing	Near-Term	\$55,000 to \$65,000
14	Croton Road	Maintain existing landscape to avoid sidewalks being blocked by completely overgrown weeds.	Maintenance	Maintenance	Routine Maintenance
15	Croton Road	Widen sidewalk on one side to make it a 10 to 12 foot-wide shared use path to accommodate bi-directional bicycle traffic.	Sidewalk	Long-Term	\$1,100,000 to \$1,300,000
16	Eau Gallie Boulevard and Croton Road Intersection; Croton Road and Aurora Road Intersection	Change signal timing to include a Leading Pedestrian Interval (LPI) during school zone times to reduce the number of vehicles turning right while students are crossing.	Sign/Signal	Near-Term	Labor Cost for Signal Technician
17	Aurora Road	Implement recommendations from Aurora Road Corridor Study - 6 foot wide sidewalk on southern side; high visibility crosswalks and ADA improvements at intersections.	Previous Study (Corridor)	Long-Term	\$29,690,000

Recommendations Table (Continued)

School Routes Analysis Croton Elementary School



-  Croton Elementary School
-  Recommendation Number
-  Study Area
-  City of Melbourne
-  Unincorporated Brevard County
-  Sidewalk
-  Crossing
-  School Circulation
-  Roadway
-  Sign/Signal
-  Feasibility Study
-  Previous Study
-  Maintenance

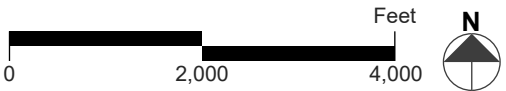
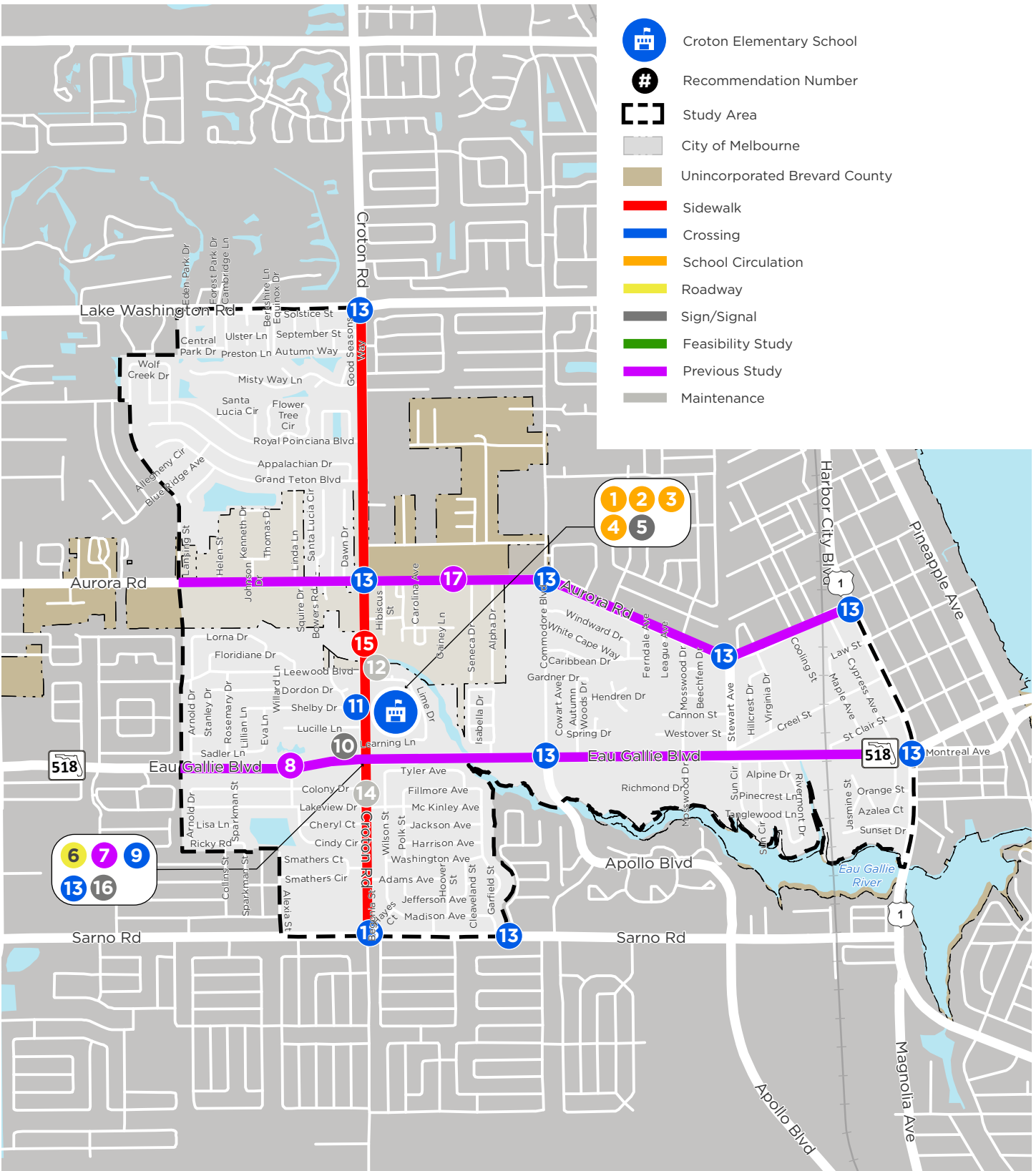


Figure 7: Recommendations
 School Routes Analysis
Croton Elementary School





Figure 8: Recommendations School Context Aerial Map

School Routes Analysis
Croton Elementary School

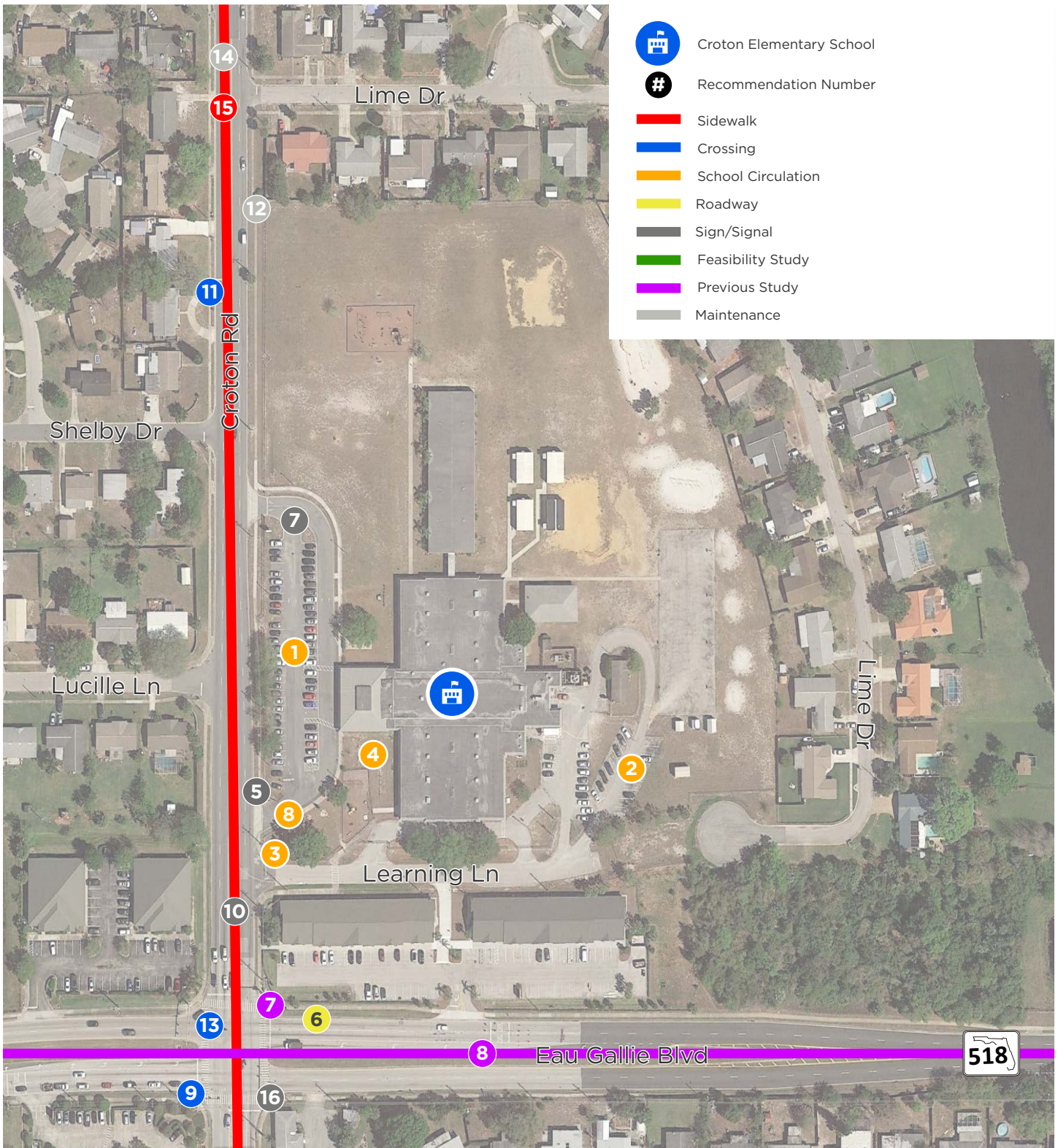


Figure 9: Recommendations School Campus Aerial Map

Prepared For:



2725 Judge Fran Jamieson Way,
Bldg. B, Room 105,
Melbourne, FL 32940

Prepared By:



225 E Robinson Street,
Suite 355,
Orlando, FL 32801