SCHOOL ROUTES ANALYSIS



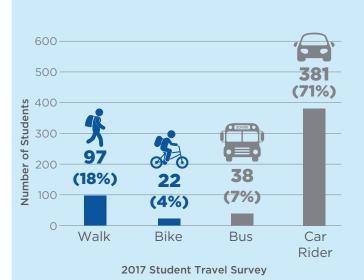
GRAPHICAL SUMMARY
REPORTS

JUNE 2023





Student Travel Modes (2017)



Total Bicycle & Pedestrian Crashes within Study Area

7 5
Pedestrian



School Aged Bicycle & Pedestrian Crashes within Study Area

\$2Pedestrian

6

6 Bicycle

Pedestrian
Possible Injury

2 Possible Injury

Non-Incapacitating
Injury

August 2016 to July 2022 Crashes from University of Florida's Signal Four Analytics Database

Signals and Crossings within Study Area

Signalized Intersection





Unsignalized Marked Crosswalks Across Major Streets



Crossing Guards



2018 Space Coast Area Transit Bus Stop Accessibility Study

 This study prioritized accessibility and safety improvements needed at each bus stop.

Previous & Ongoing Plans

SR 519 (Fiske Boulevard)

- Concept development study to advance the long term vision of the corridor to address the safety and mobility needs of the community, including for vehicle, transit, bicycle and pedestrian modes.
- Construct six foot wide sidewalks where possible, extend the Brevard Zoo trail, and tighten turning radii where possible.
- Construct curb & gutter north of Barbra Jenkins Street and conduct an areawide drainage study.

≥ 2019 SCTPO Bicycle & Pedestrian Master Plan

- The 2019 SCTPO Bicycle & Pedestrian Master Plan includes filling sidewalk and bicycle facility gaps throughout the county.
- Near Andersen Elementary School, this includes filling bicycle and pedestrian facility gaps along Murrell Road.
- The alternative alignment for the East Coast Greenway trail is located along the west side of US 1 within the study area.

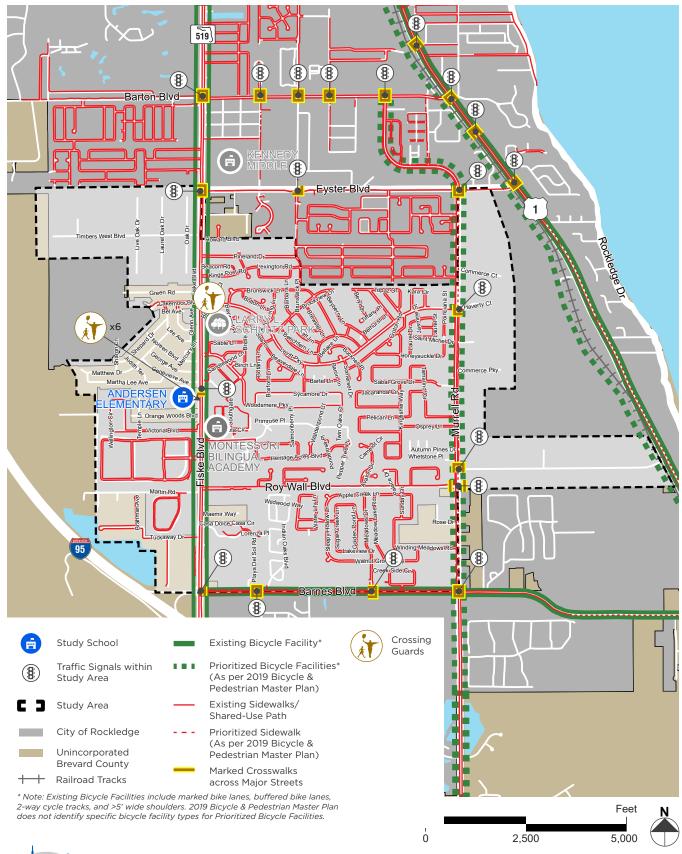




Figure 1: Background Information

School Routes Analysis

Andersen Elementary School



SPACE COAST

Figure 2: Existing and Planned Bicycle and Pedestrian Facilities

School Routes Analysis





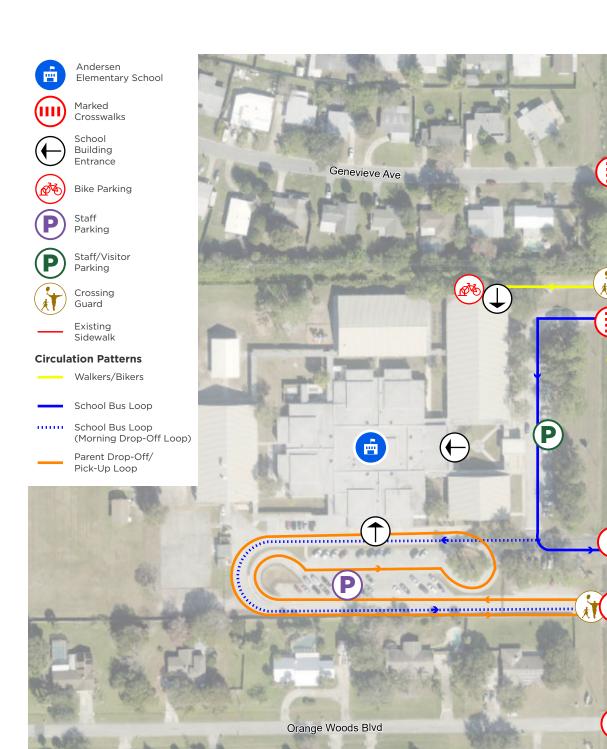


Figure 3: School Context Aerial
School Routes Analysis
Andersen Elementary School





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







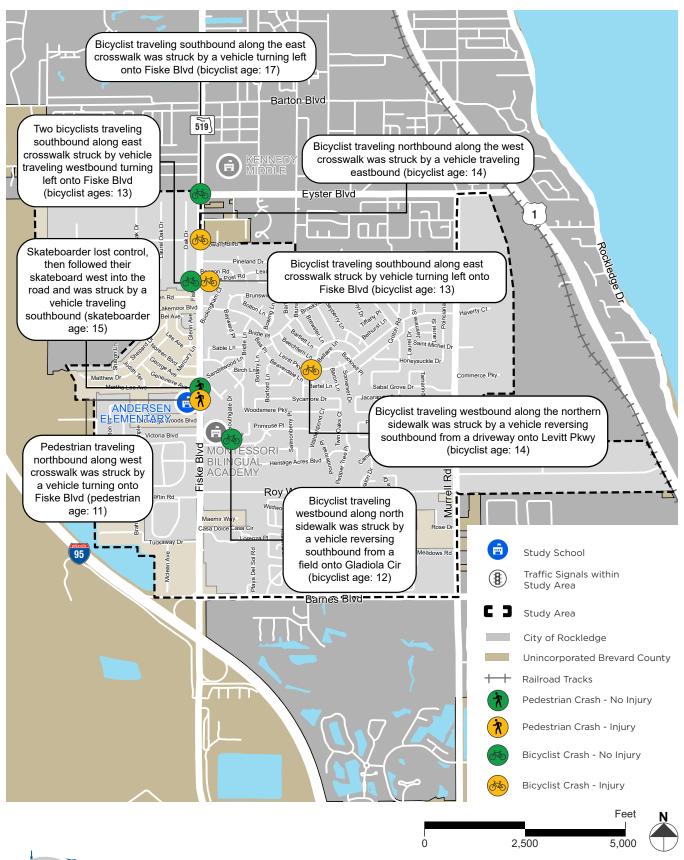


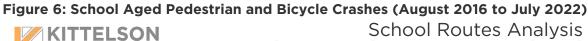
519

Blvd

Gladio<mark>l</mark>a Circ

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





School Campus Recommendations								
No.	Location	Recommendation	Туре	Time-Frame	Cost Estimate			
1	Bicyclist ca Entrance pe	iden the sidewalk into the school mpus to provide more space for edestrians and bicyclists that enter e school campus.	Sidewalk	Near-Term	\$45,000 to \$55,000			
2	School no Campus the	Idd signage restricting access to orthern driveway and enforcement force parents to drop-off/pick-up eir student in the parent drop-off/ck-up loop.	Sign/Signal & Enforcement	Near-Term	<\$10,000			
Study Area Recommendations								
No.	Location	Recommendation	Туре	Time- Frame	Cost Estimate			
3	Levitt Parkway	Add sidewalk on the north side of Levitt Parkway from Kara Circle to Murrell Road.	Sidewalk	Near-Term	\$105,000 to \$120,000			
4	Murrell Road	Fill sidewalk gap prioritized in the 2019 SCTPO Bicycle & Pedestrian Master Plan on the east side of Murrell Road from just north of Barnes Boulevard to Gus Hipp Boulevard.	Sidewalk	: Near-Term	\$315,000 to \$370,000			
5	Roy Wall Boulevard, Levitt Parkway, and Murrell Road	Install/upgrade pedestrian ramps to meet current standards along: Roy Wall Boulevard from SR 51 (Fiske Boulevard) to Murrell Root (Fiske Boulevard) to Murrell Root; an Boulevard) to Murrell Road; an Boulevard to Eyster Boulevard	9 oad; ske Sidewalk d	: Near-Term	\$170,000 to \$200,000			
6	Genevieve Avenue	Add sidewalk on both sides of Genevieve Avenue from Martha Le Avenue to SR 519 (Fiske Boulevard		Near-Term	\$260,000 to \$300,000			
7	School Campus	Add high-visibility crosswalks at school driveways where sidewalks	are Crossing	Maintenance	<\$10,000			





present.

Table 1: Recommendations Summary

School Routes Analysis

Study Area Recommendations								
No.	Location	Recommendation	Type	Time-Frame	Cost Estimate			
8	SR 519 (Fiske Boulevard) & Gladiola Circle/ Second Southern- most School Campus Driveway	Restrict left turns at the intersection, add a pork-chop median along Gladiola Circle/School Campus Driveway, and add a spot median along SR 519 (Fiske Boulevard). This reduces the vehicle-to-vehicle conflict points by 30 and vehicle-to-pedestrian and bicycle conflict points by 3.	Roadway	Near-Term	\$60,000 to \$65,000			
9	SR 519 (Fiske Boulevard) & Levitt Parkway/ Lakemoor Boulevard	Conduct a midblock crossing study at the south leg of the intersection. If justified, add a midblock crossing with a Pedestrian Hybrid Beacon (PHB) or pedestrian signal and center median to provide a crossing opportunity for students walking and biking to/from school and accessing Larry L. Schultz Park to cross SR 519 (Fiske Boulevard). Add another crossing guard for the movement across SR 519 (Fiske Boulevard).	Crossing/ Enforcement	Long-Term	Further Study Required for Midblock Crossing Study			
10	SR 519 (Fiske Boulevard) & Pedestrian Crossing Just South of Genevieve Avenue	Conduct a signal timing study to evaluate the feasibility of increasing the pedestrian crossing time to allow all bicyclists and pedestrians to cross during one cycle during the afternoon peak period and reducing the cycle length.	Sign/Signal	Maintenance	Further Study Required to Determine Signal Timing			
11	SR 519 (Fiske Boulevard)	Conduct a school zone analysis to determine if a school zone is justified along SR 519 (Fiske Boulevard) near the school campus. If justified, add flashing beacon signage along SR 519 (Fiske Boulevard). Restripe pavement markings and add advance school zone warning signs.	Sign/Signal	Near-Term	Further Study Required to Conduct School Zone Analysis			





Table 1: Recommendations Summary Cont.

School Routes Analysis

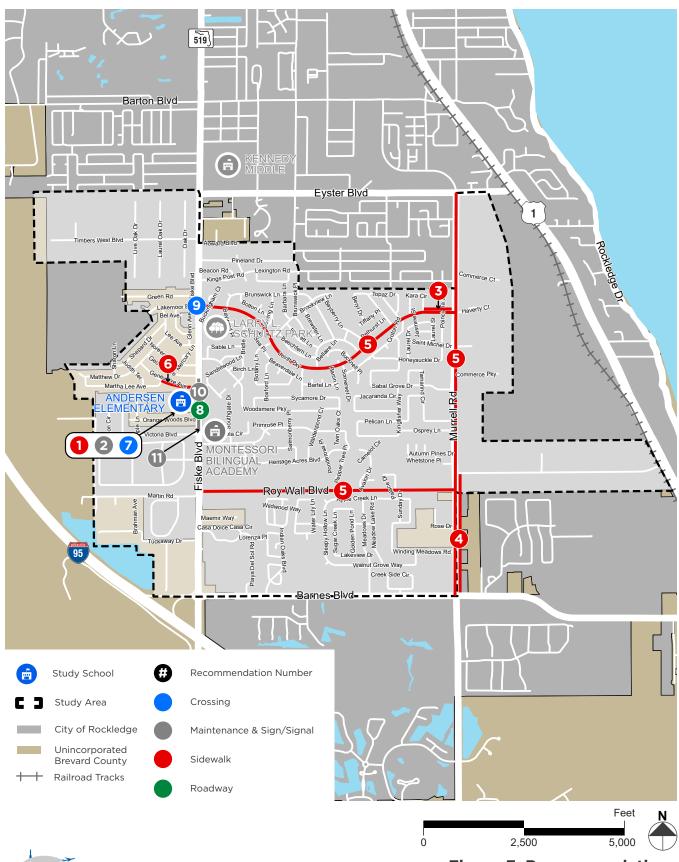
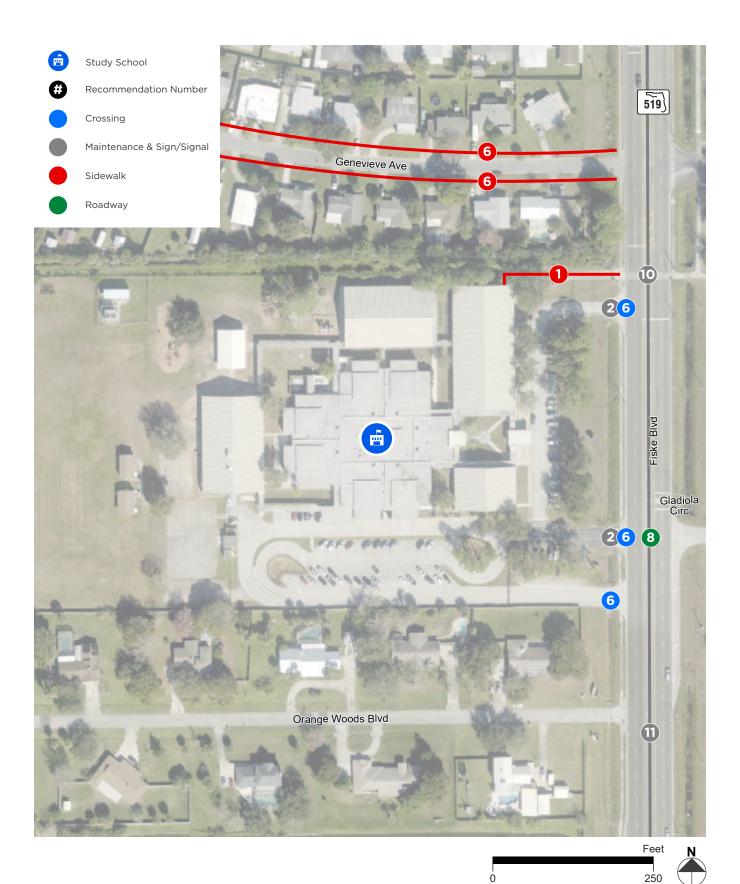






Figure 7: Recommendations School Routes Analysis
Andersen Elementary School









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