



State Road 519

Space Coast Transportation Planning Organization

July 12, 2018

FPID: 437241-1



Florida Department
of Transportation



Completed
December 2016

Corridor
Planning Study

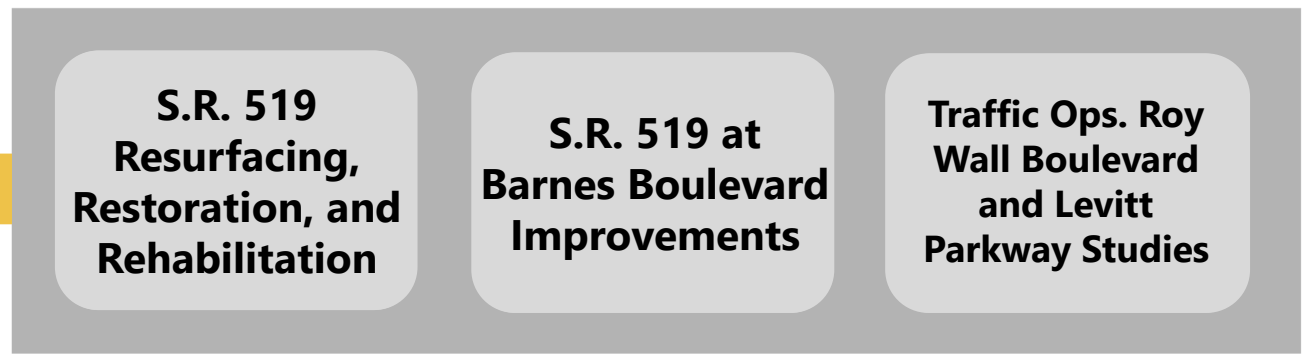
- Construction
- Design
- Right of Way
- Drainage Analysis

Long-Term
Corridor Design

Concept Development and Evaluation Study



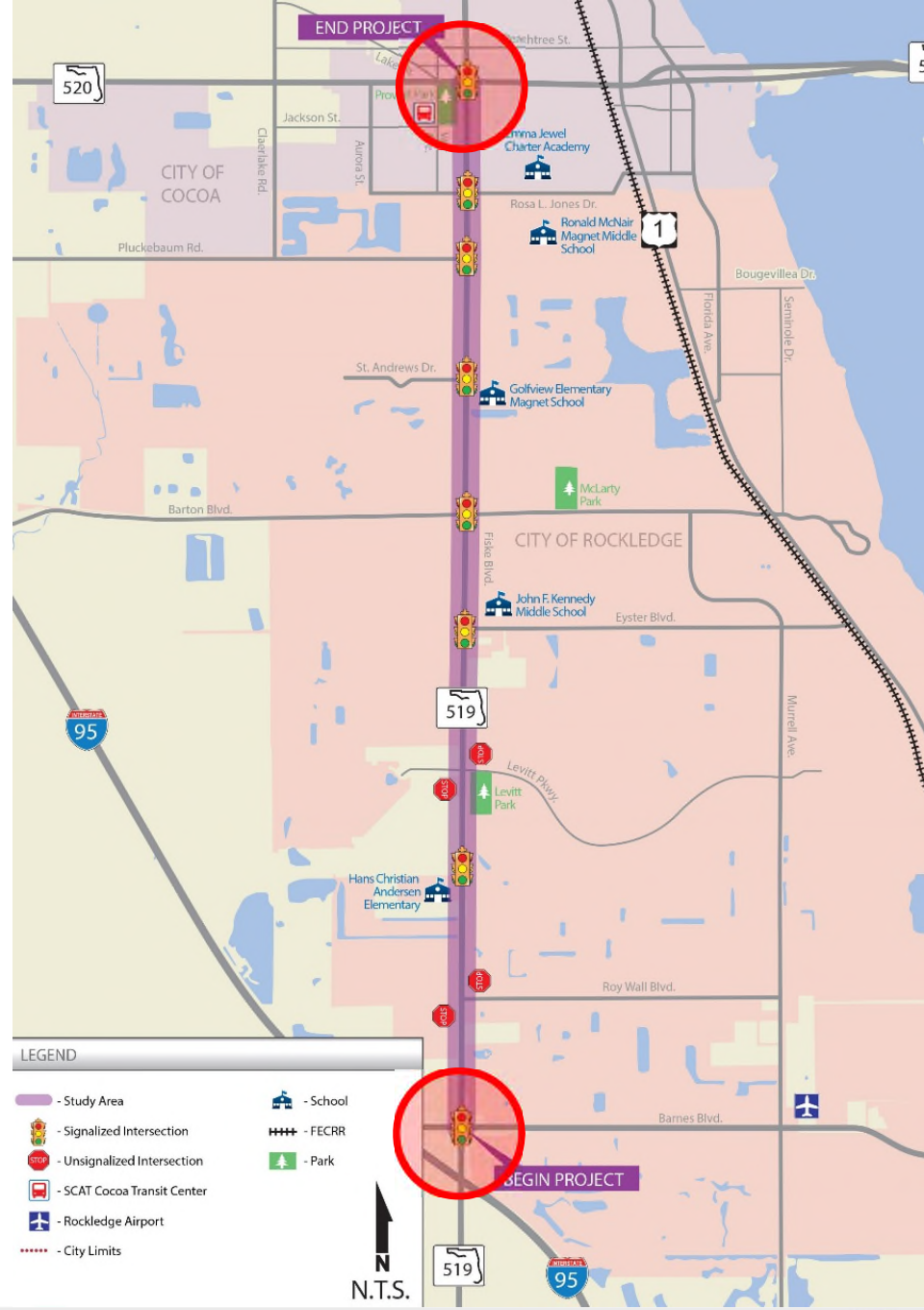
Short Term (within the next 5 years)



Project Process

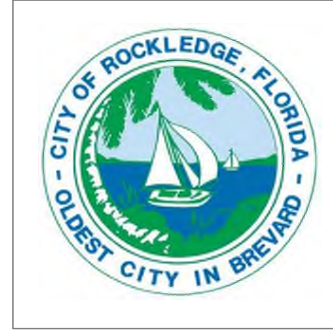
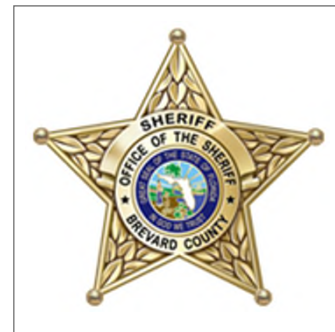


- Study Area Limits
 - From County Road (C.R.) 502 (Barnes Boulevard)/Interstate 95 (I-95) northbound ramps to S.R. 520 (King Street)
- Length
 - Approximately 4.2 miles
- Jurisdictions:
 - City of Rockledge: from Barnes Boulevard to Rosa L. Jones Drive
 - City of Cocoa: from Rosa L. Jones Drive to S.R. 520
- Originally a county road transferred to Florida Department of Transportation (FDOT) in the 80's
- Transitional character with varying cross sections
- Primary north-south route between I-95 and S.R. 520
- Connection to Viera to the south

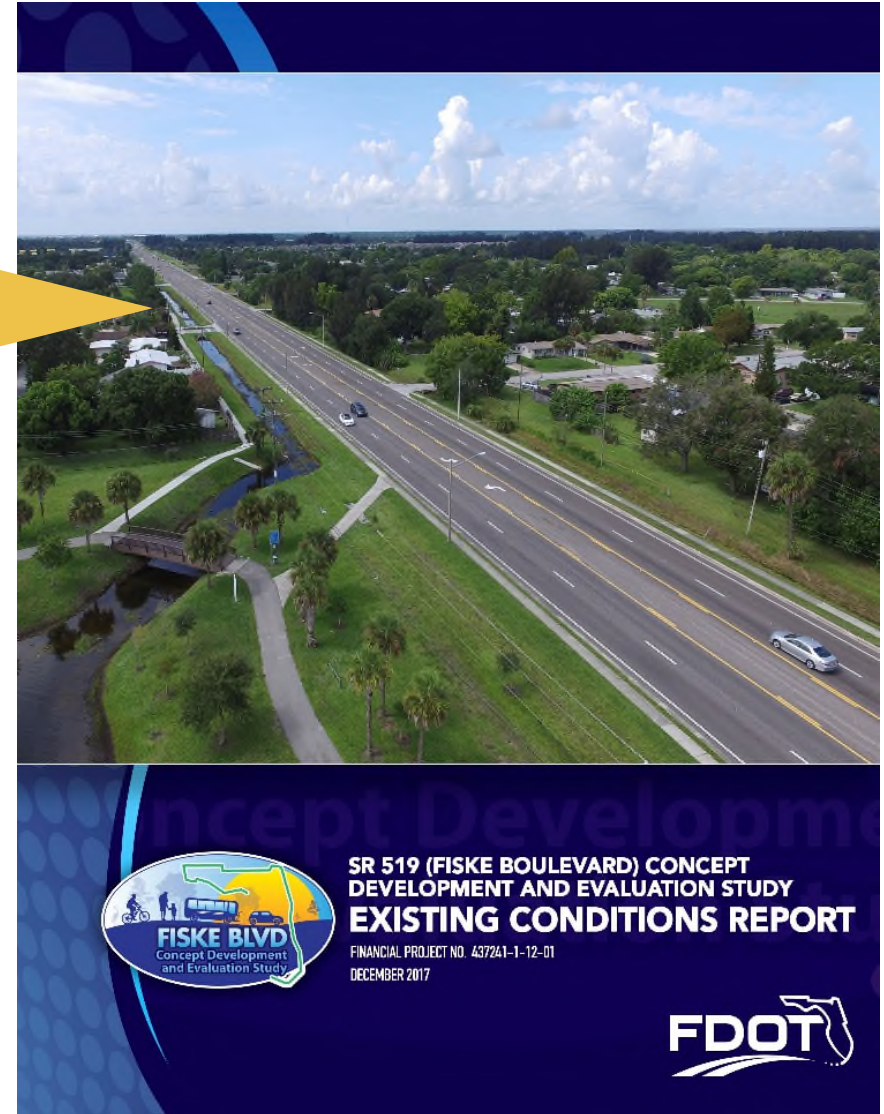




- Project Visioning Team (PVT)
 - PVT is an advisory group
 - Not an independent decision-making board
 - Provides jurisdictional, policy, technical, and administrative guidance
 - Shapes the recommended improvements
 - Pulse on the community's preferences



- Data updated for the corridor planning study
- Data gathered included:
 - Turning Movement Counts (TMCs)
 - Bicycle and Pedestrian Counts
 - Signal Timings
 - Corridor Crash Data
 - Transit Data
 - Existing and Future Land Use
 - Socio-Economic Data
 - Infrastructure Assessment
 - Environmental Data



<http://www.cflroads.com/project/437241-1>



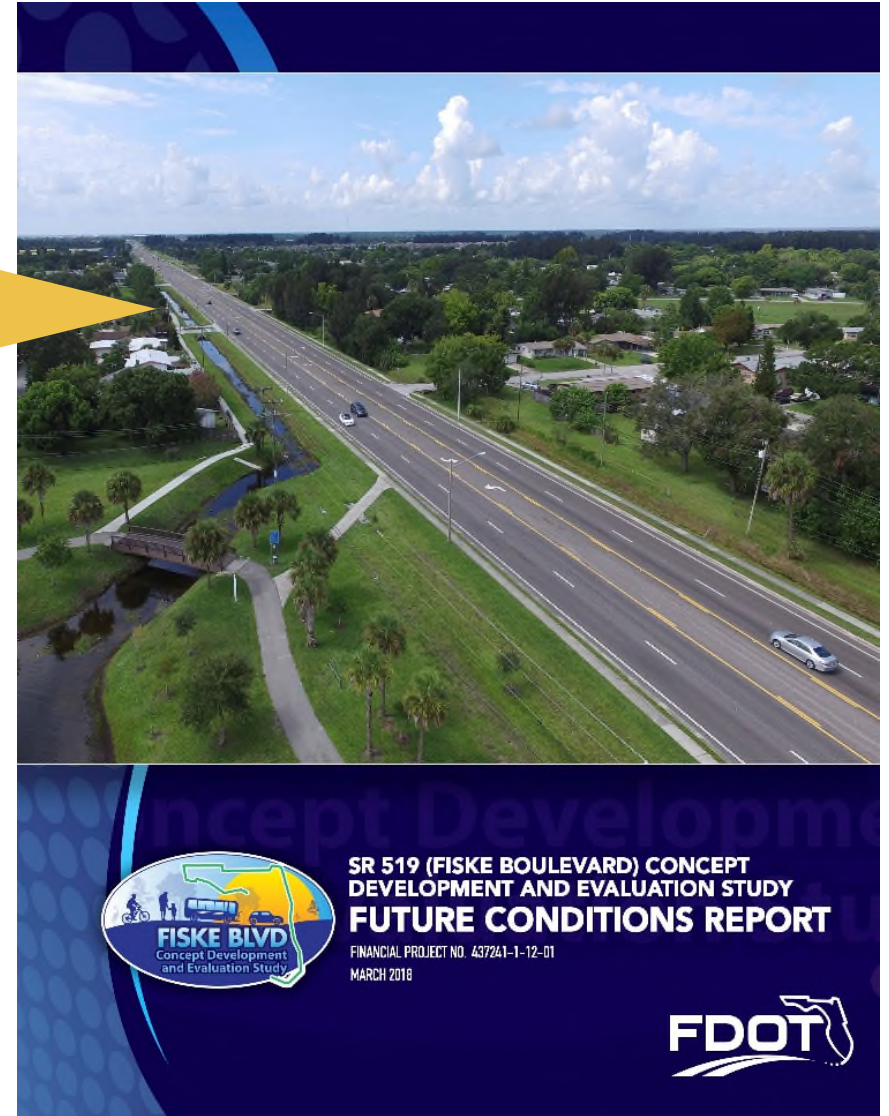
- Similar conditions to planning study
- Main differences:
 - Higher traffic volumes:
 - South: 15%
 - North: 2%
 - Higher number of crashes





- Conditions forecasted to Year 2040
- Average Annual Growth Rate: 1.68%
- Key study finding: No widening needed

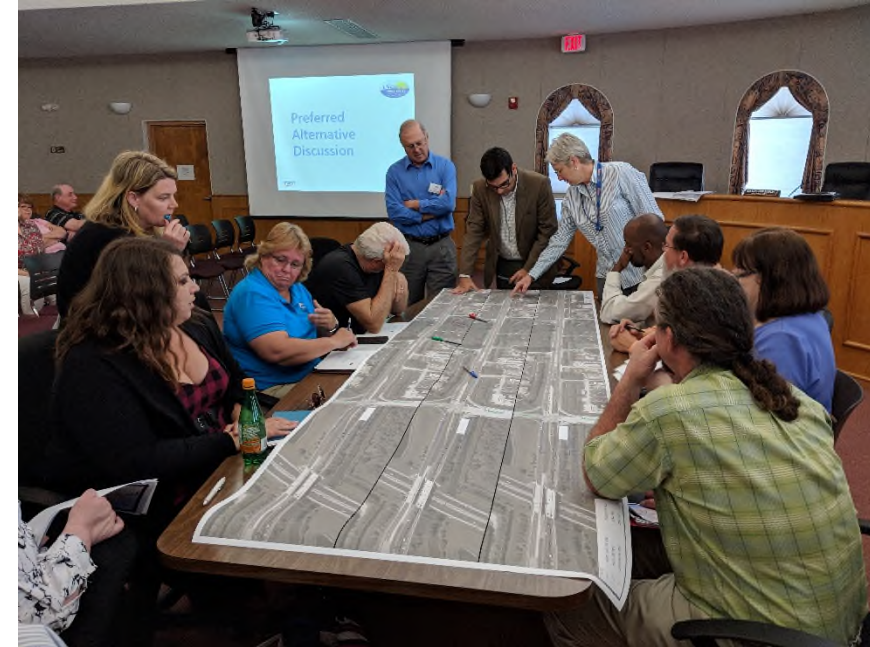
Analysis and Findings



<http://www.cflroads.com/project/437241-1>

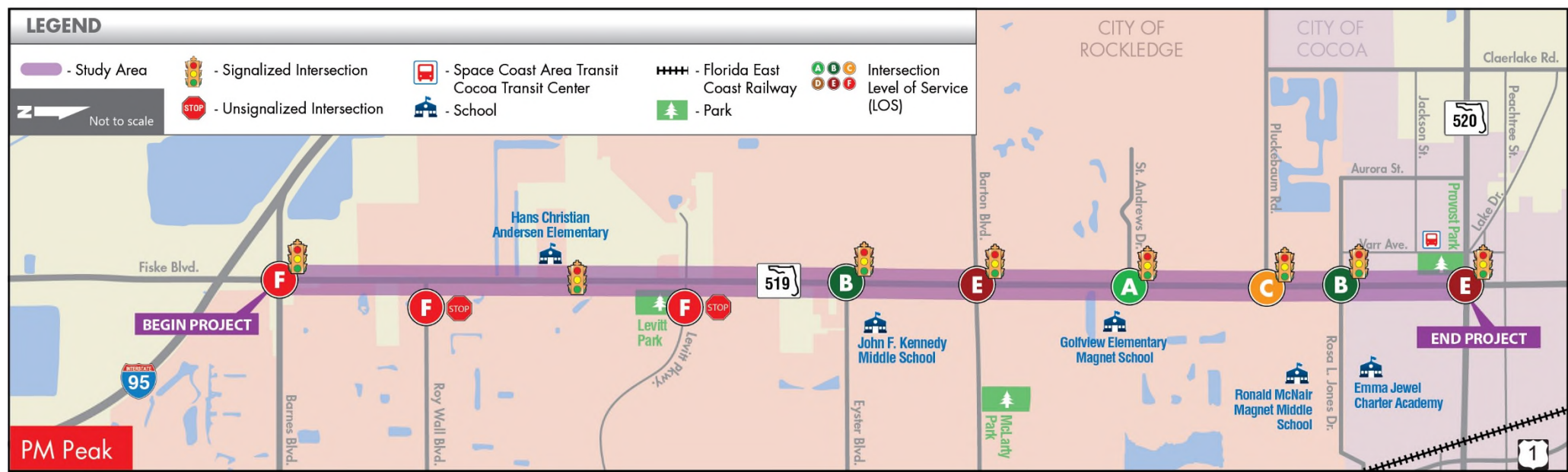
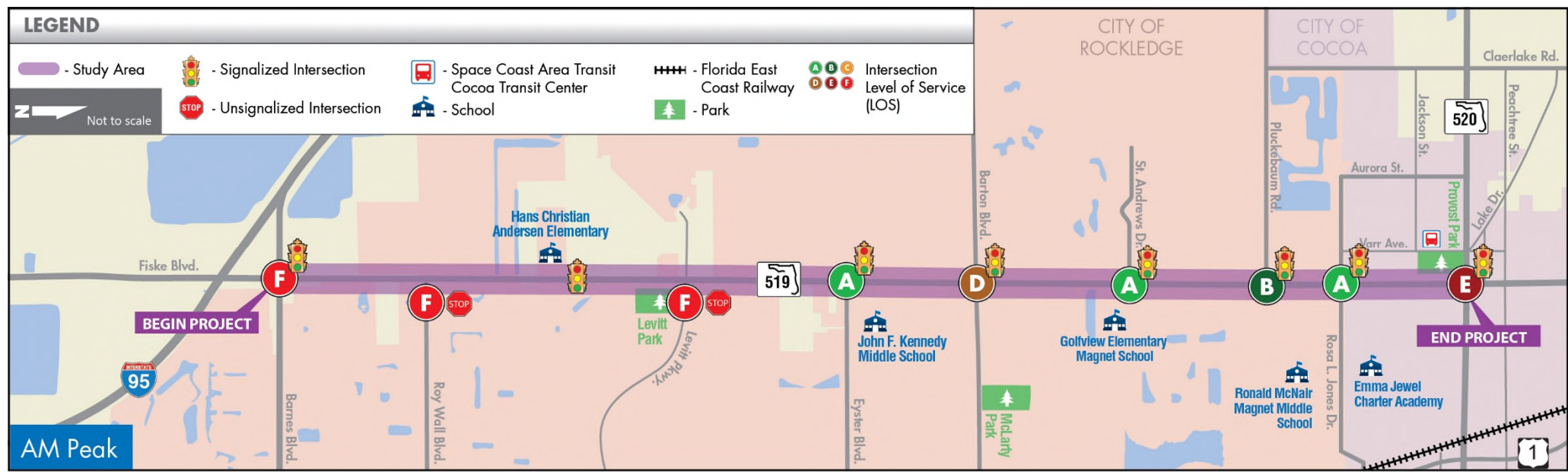


- The following key findings are highlights that distill the full reports:
 - Level of Service (LOS)
 - Right of Way (R/W)
 - Bicycle/Pedestrian
 - Transit
 - Safety (Crashes)
 - Traffic Control Modification



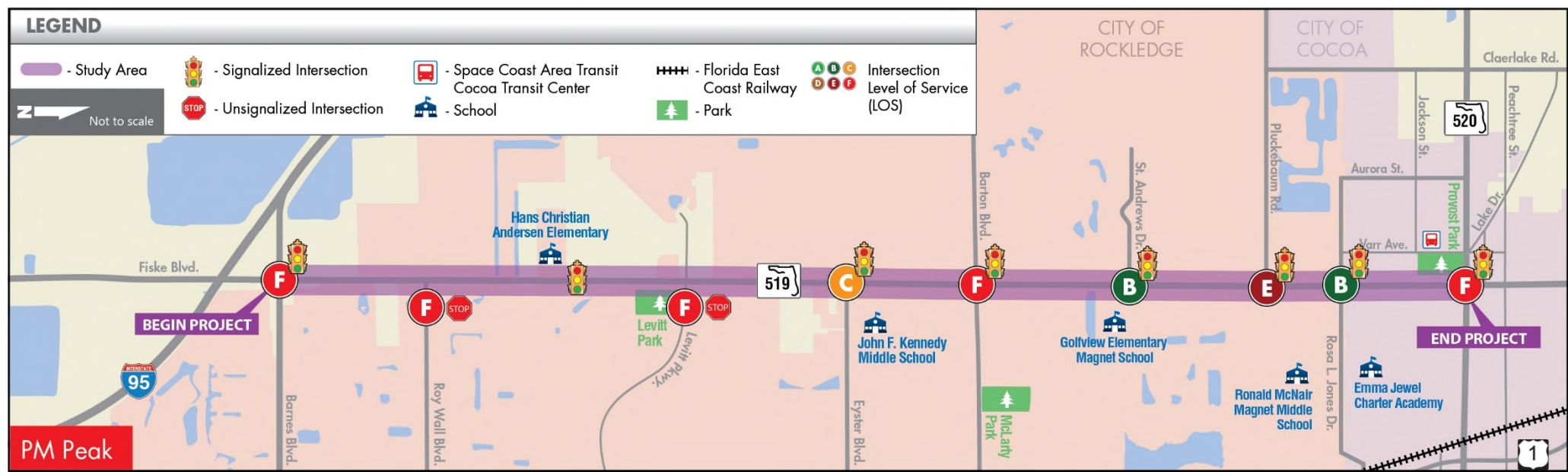
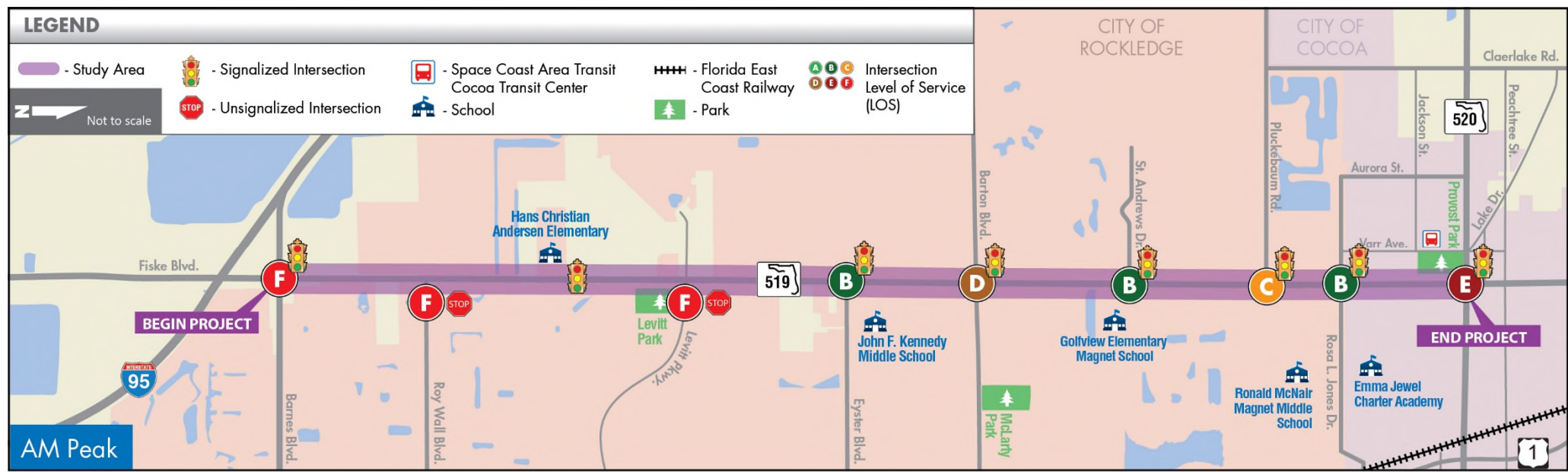


Intersection Level of Service (LOS)
Existing Year 2017





Intersection Level of Service (LOS)
Future Year 2040





- Bicycle concerns:
 - Lack of bicycle facilities
- Pedestrian concerns:
 - Presence of sidewalk gaps
 - Lack of crossing opportunities

Safety

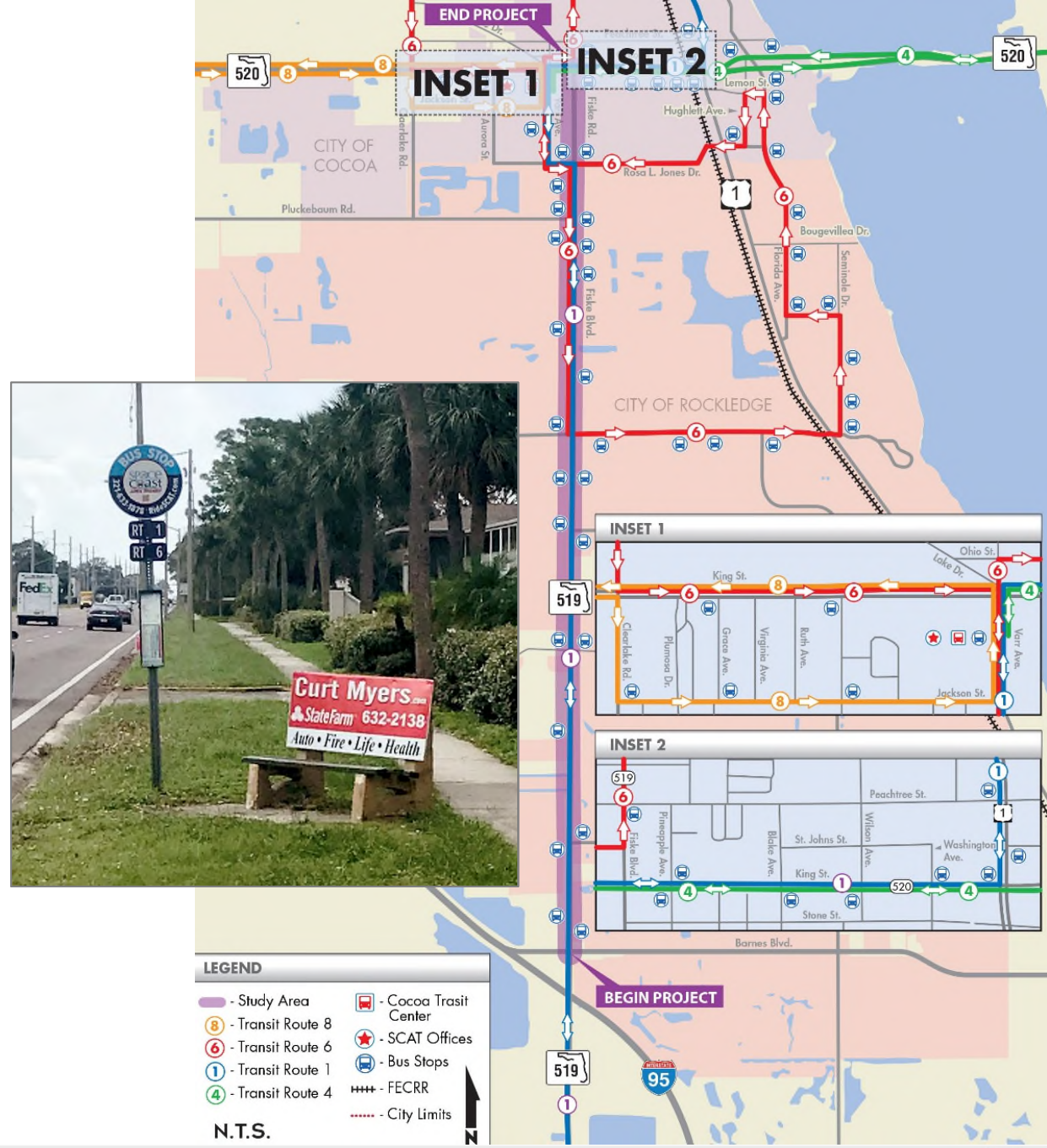
- Number of crashes has increased since the original corridor study
- Previous vs. Current studies:
 - ↑ *Average per year*
 - ↑ *Rear end crashes per year*
 - ↓ *Injury crashes per year*
 - ↓ *Fatalities*

Accidents vary throughout the study area



- Transit Routes
 - Operated by Space Coast Area Transit
 - Route 1 (Titusville/Viera)
 - Route 4 (S.R. 520 Connector)
 - Route 6 (Cocoa/Rockledge)
 - Route 8 (West Cocoa)

- Transit Infrastructure
 - Bus stop signs and benches
 - Lack accessibility and/or amenities





- Preferred Alternative
 - Sidewalks/trail
 - Bicycle lanes
 - Lane width reductions
 - Raised landscaped islands
 - Bus stop amenities
 - Curb/drainage
 - ADA compliance
 - Intersection traffic control modifications





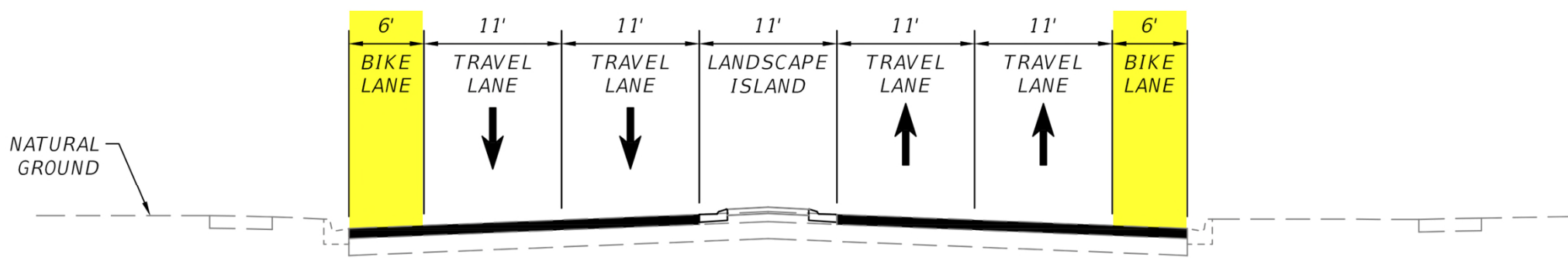
Proposed Alternative – Sidewalks/Trail

- Close sidewalk gaps
- Reconstruct sidewalks: from 4 feet to 6 feet
- Brevard Zoo Trail from Barnes Boulevard to Eyster Boulevard
- Pedestrian refuge south of Barbara Jenkins Street





- Addition of bicycle lanes

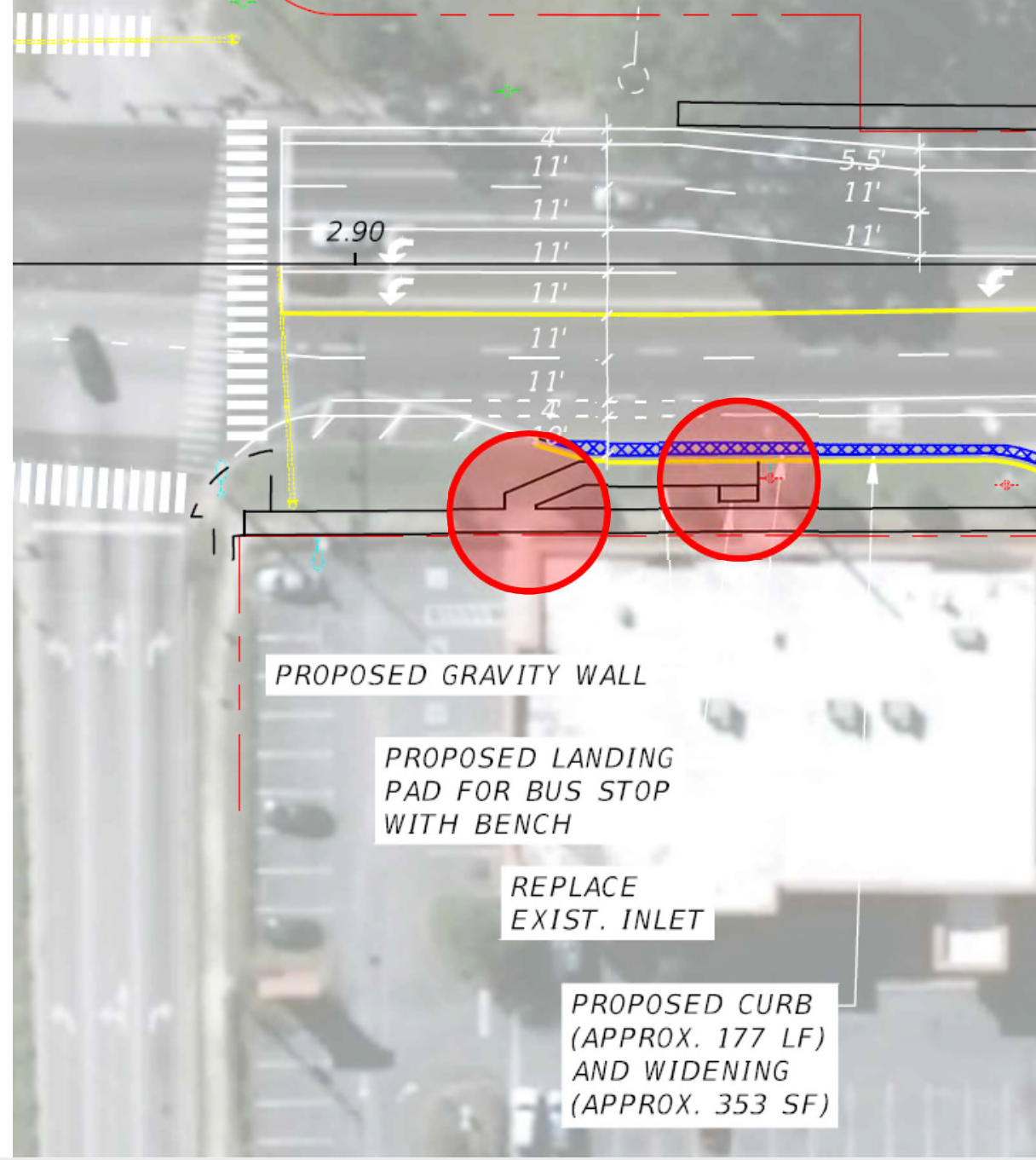


PROPOSED TYPICAL SECTION
W/ ISLAND



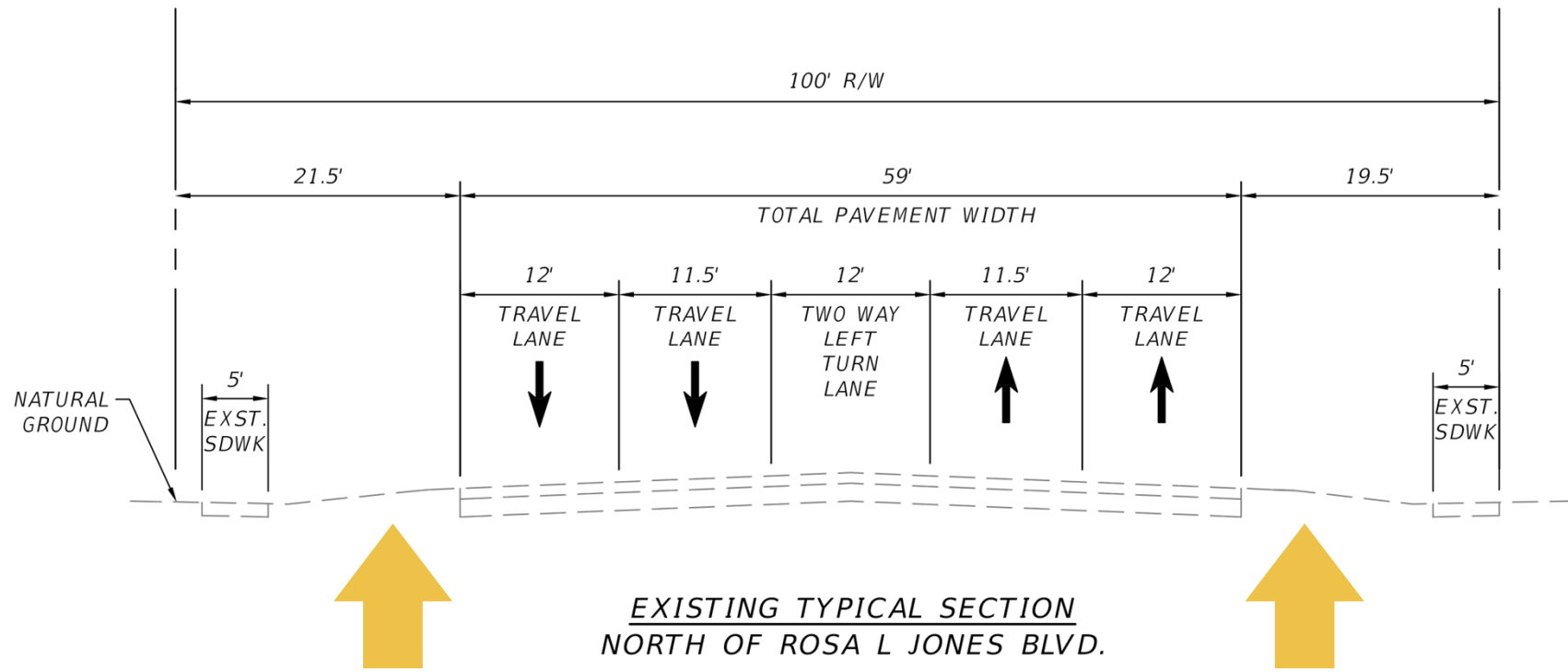


- Bus stop improvements
 - ADA Accessible Landing Pads
- Bus stop amenities
 - Benches
 - Connections to sidewalks





■ Curb/drainage



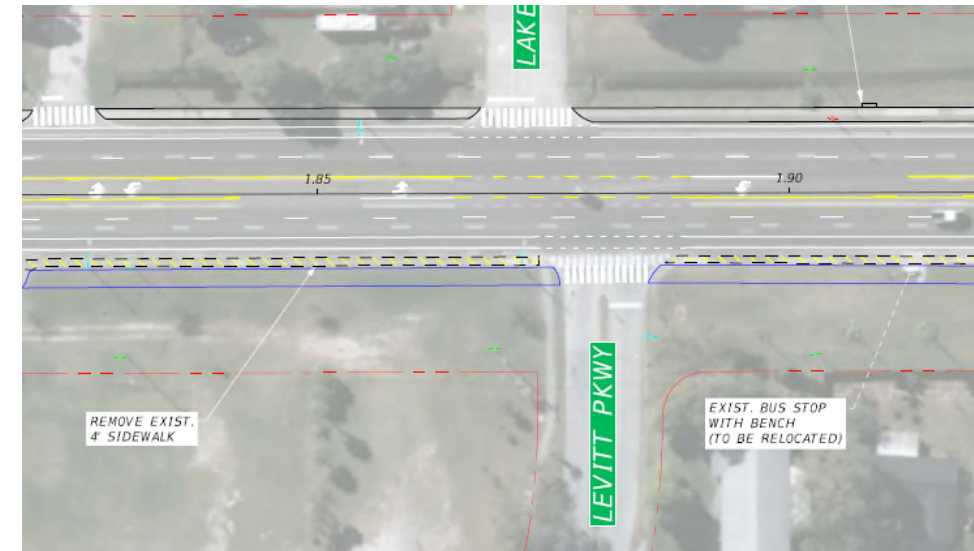
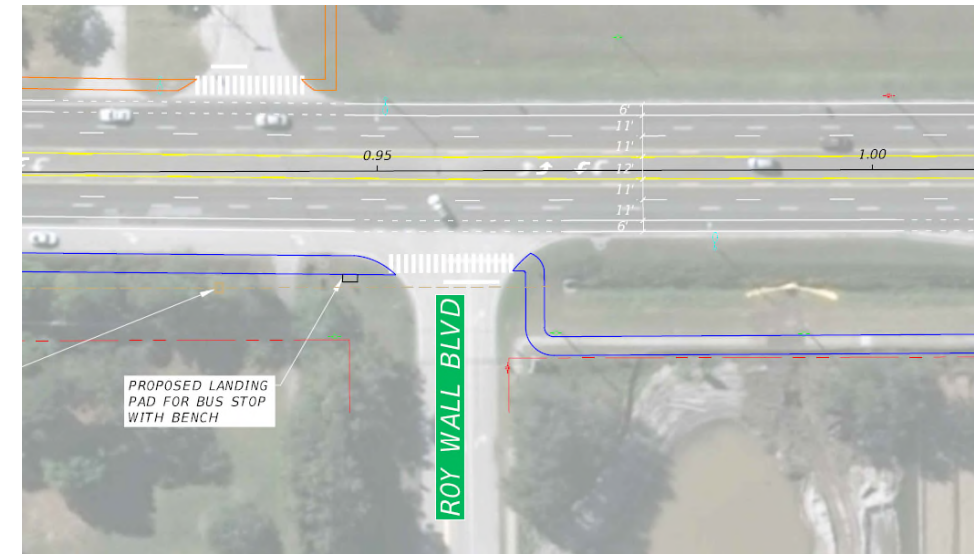


- ADA Improvements
 - Detectible Warning Pads
 - Crosswalk Pavement Markings





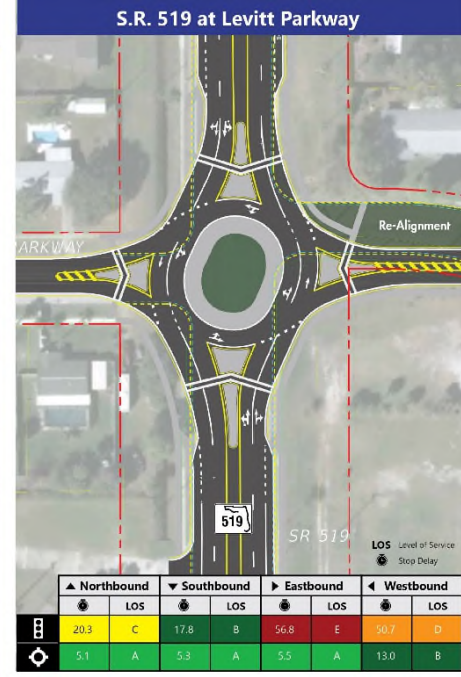
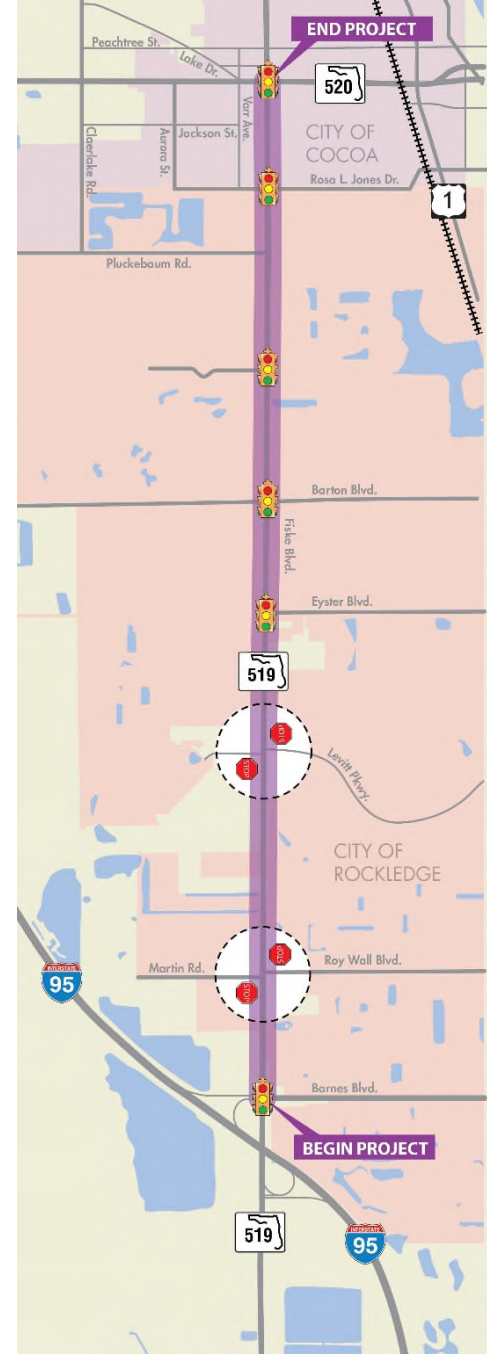
- **Roy Wall Boulevard**
Intersection improvements
✓ Signal warrant met
- **Levitt Parkway**
Intersection improvements
✓ Signal warrant met
- **Barnes Boulevard**
Intersection improvements





- **Roy Wall Boulevard**
Intersection improvements

- **Levitt Parkway**
Intersection improvements





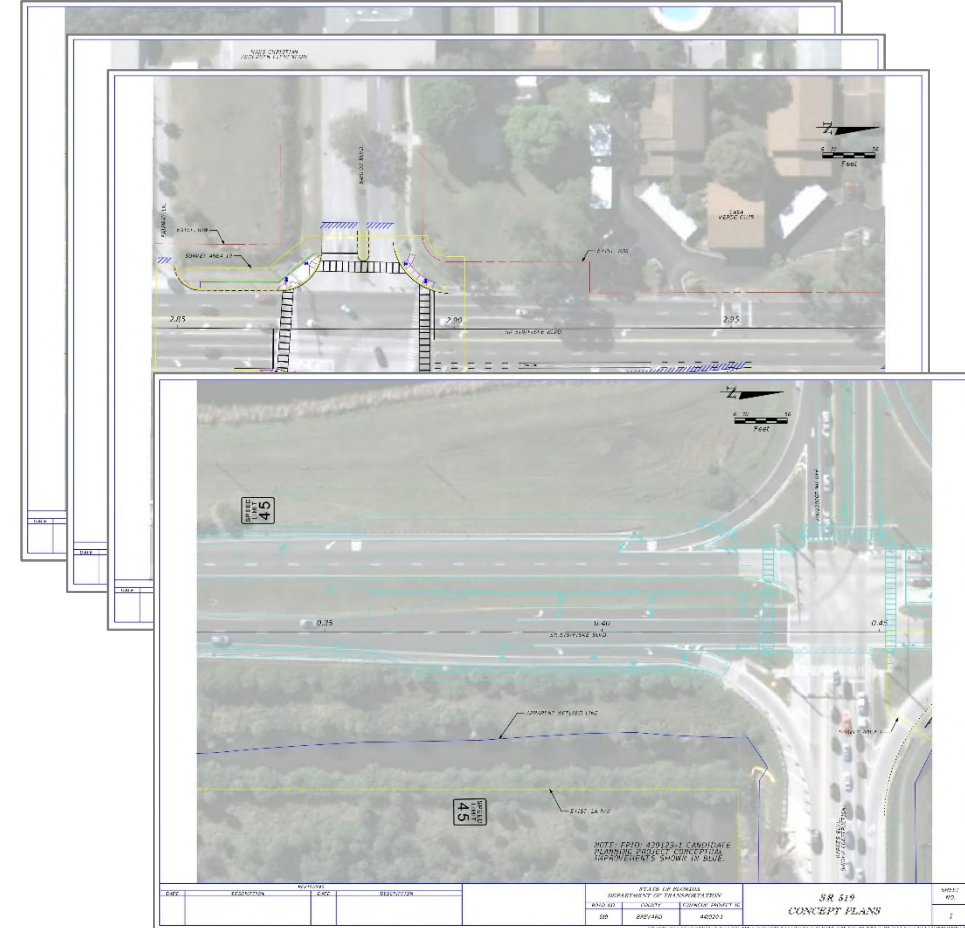
Upcoming Projects

- S.R. 519 Traffic Operations Study
 - Roy Wall Boulevard intersection
 - Levitt Parkway intersection

- Resurfacing, Restoration, and Rehabilitation (3R) Project from C.R. 502 (Barnes Boulevard) to S.R. 520
 - Improvements include:
 - Pavement resurfacing
 - Add bicycle lanes
 - Close sidewalk gaps

- Barnes Boulevard intersection improvements
 - To be included in next Work Program update
 - Improvements include:
 - Add a second NB-to-WB left turn lane
 - Add a second WB receiving lane
 - Add a second EB-to-NB left turn lane

FINAL
Candidate Project Technical Scope
441020-1, SR 519 Resurfacing from I-95 NB Ramp/Barnes Blvd. to SR 520
 Section 70014-000, MP 0.460 to MP 4.604
 Brevard County
 Prepared for:
THE FLORIDA DEPARTMENT OF TRANSPORTATION
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Project information will be posted on:
<http://www.cflroads.com/project/437241-1>