

B.9.

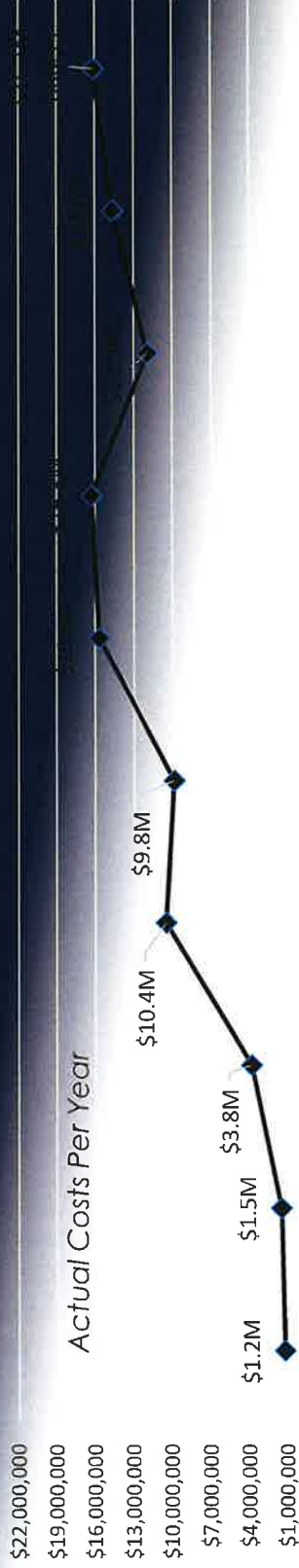


Public Works Road Map To 2025



Marc Bernath
Director
February 29, 2024

Road Program - 10-Year Historical Trend



Total Miles Treated (770)

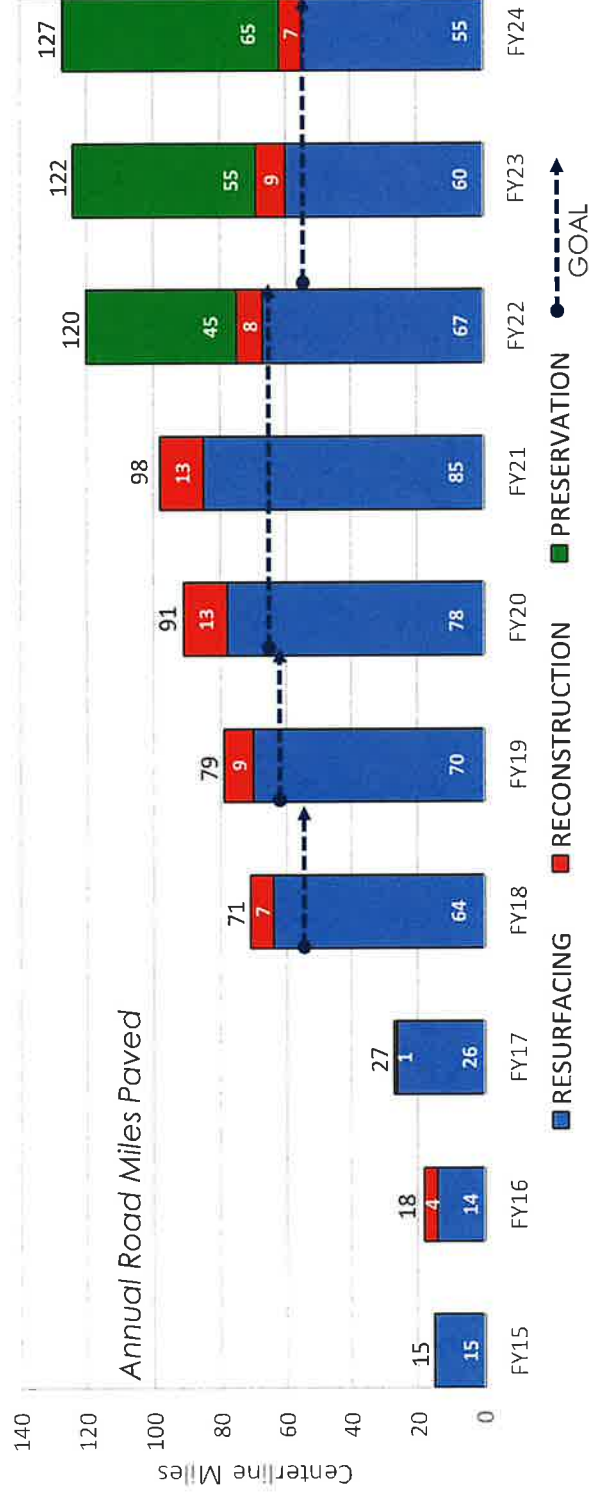
- 534 Miles of Resurfacing
- 71 Miles of Reconstruction
- 165 Miles of Preservation

Annual Paving Goals

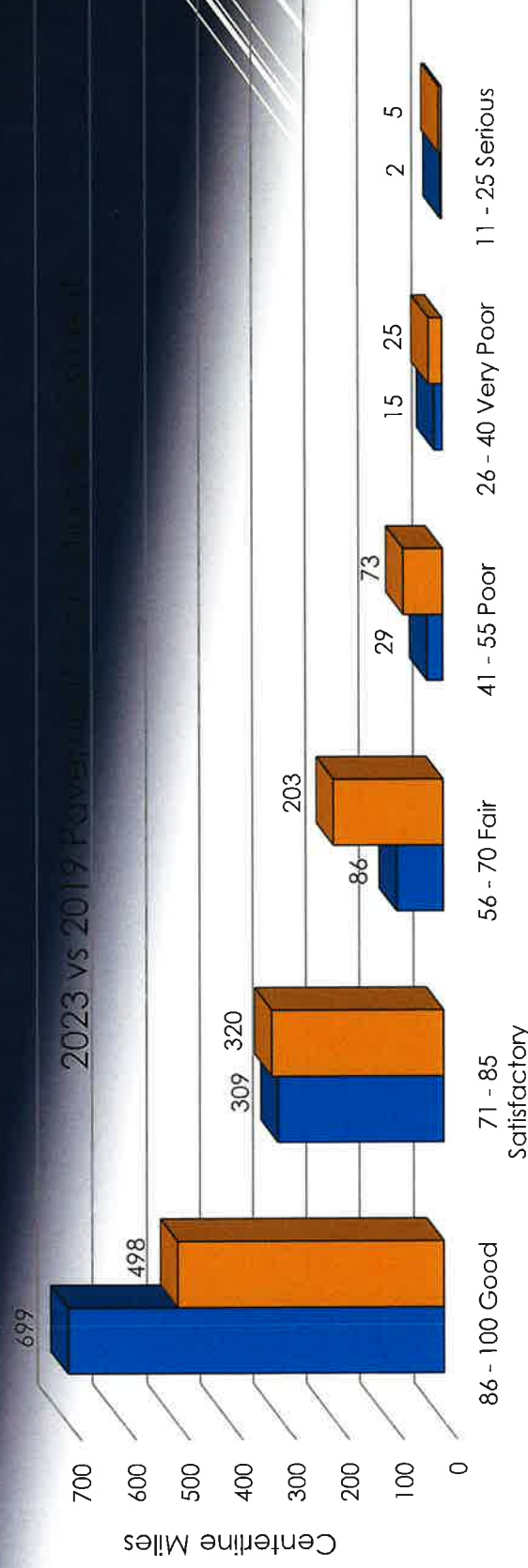
- Exceeded Every Year & Within Budget

Preservation (Pilot)

- Road Program Shifted in 2022 to Include Preventative Maintenance to Extend Road Life Expectancy, save \$\$, keep road surface in good condition throughout life cycle



Road Infrastructure Pavement Condition Assessment



■ PCI 2023 ■ PCI 2019

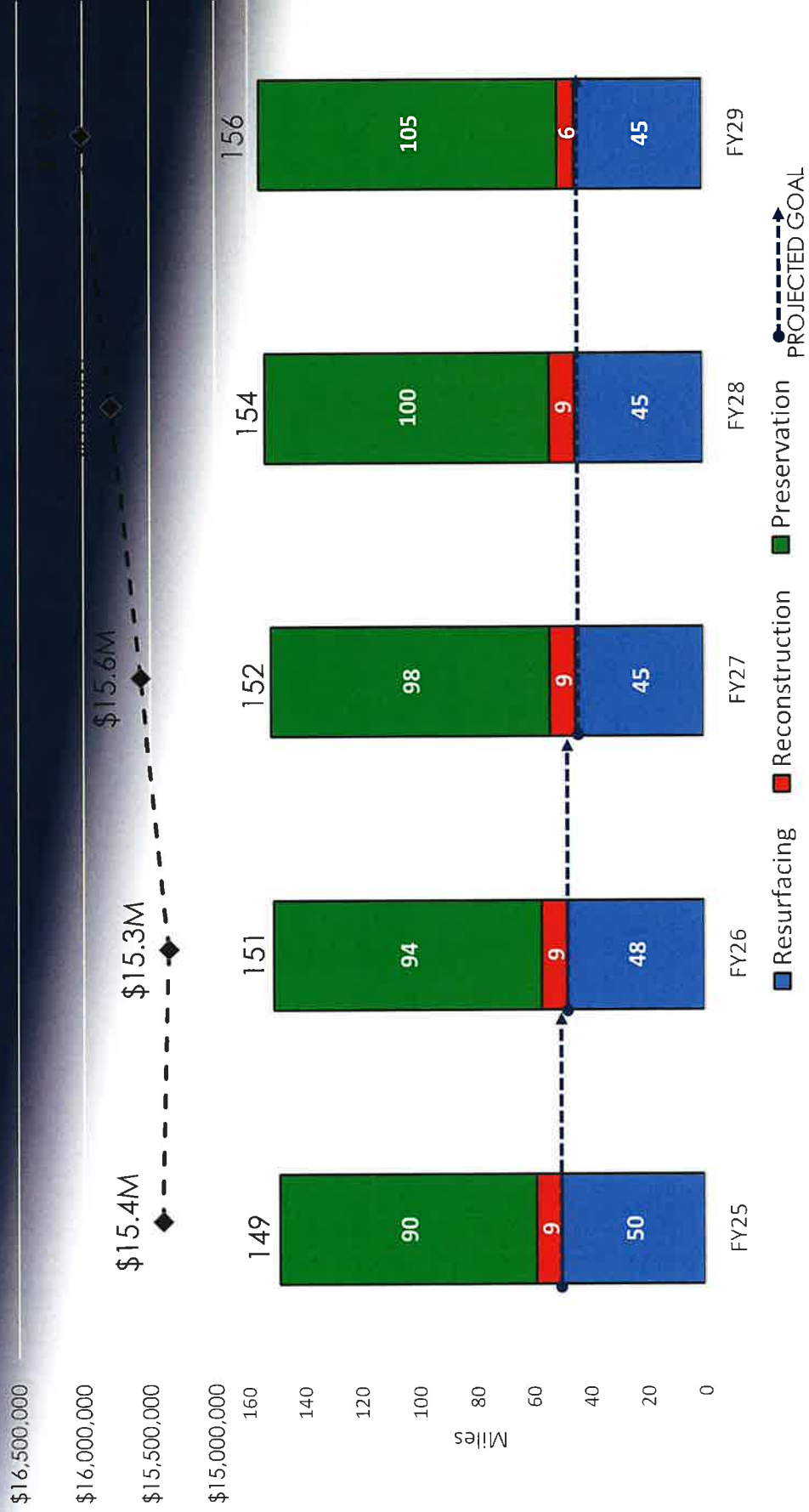
- 1144 Centerline Miles of County Maintained Roads (2023)
- 1126 Centerline Miles (2019)
- Avg. 4.8 Miles of New Roads Added to Inventory Each Year (Release of Maintenance Bond) FY18-FY24
- 2023 Average Pavement Condition (PCI) Index Score Countywide = **85/100**
- 2019 Avg. PCI 79/100
- 2011 Avg. PCI 66/100

Road Infrastructure Backlog Miles



- 218 Backlog Miles in 2019 (PCA)
 - **101 Miles At Risk**
- 95 Backlog Miles in 2023 (PCA)
 - **42 Miles at Risk**

Road Program - 5 Year Plan



Drainage Program – 7-Year Trend



Where we started.....

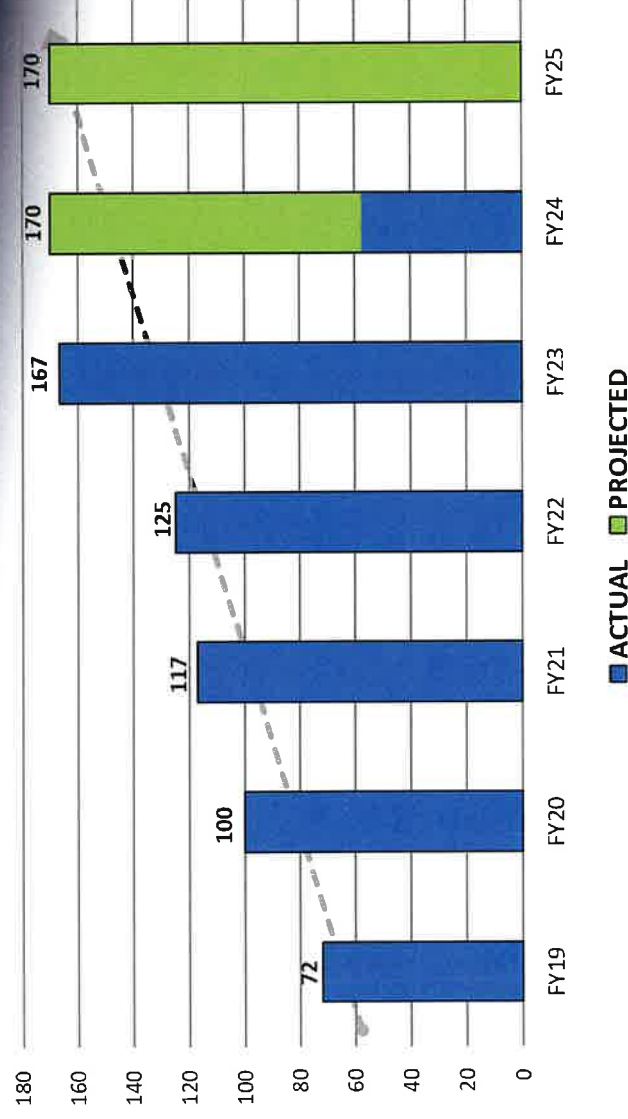
• 1990: 100 miles of drainage
• 1995: 125 miles of drainage
• 2000: 150 miles of drainage

- Equipment: 10-15 crews
- Avg. 25 miles per year

Moving From Reactive Approach



.....To Proactive Approach



- 2024: 3 Dedicated Countywide Drainage Crews
- 9 FTEs @ \$539K (Annual S&B)
 - Equipment \$1.96M
 - Avg. 80-90 miles per year



Bridge Program – 5 Year Plan

— Funded — Unfunded

\$4,000,000
\$2,000,000
\$0

District 1
James Jay Clark
Pedestrian Bridge
Re-Coating
Awarded 2023

District 2
Sea Ray Bridge
Bid In Progress
Reconstruction
2024/2025

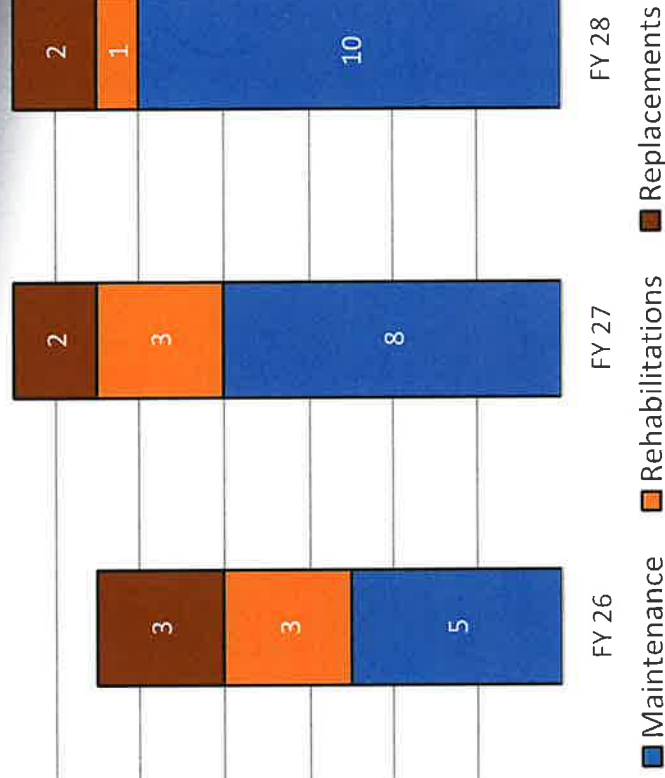
District 2
Merritt Island
Central Ave.
Bridge Design
Award In Progress
2024

District 3
Micco Bridge
Reconstruction
Awarded 2023

\$1.22M

\$1.26M

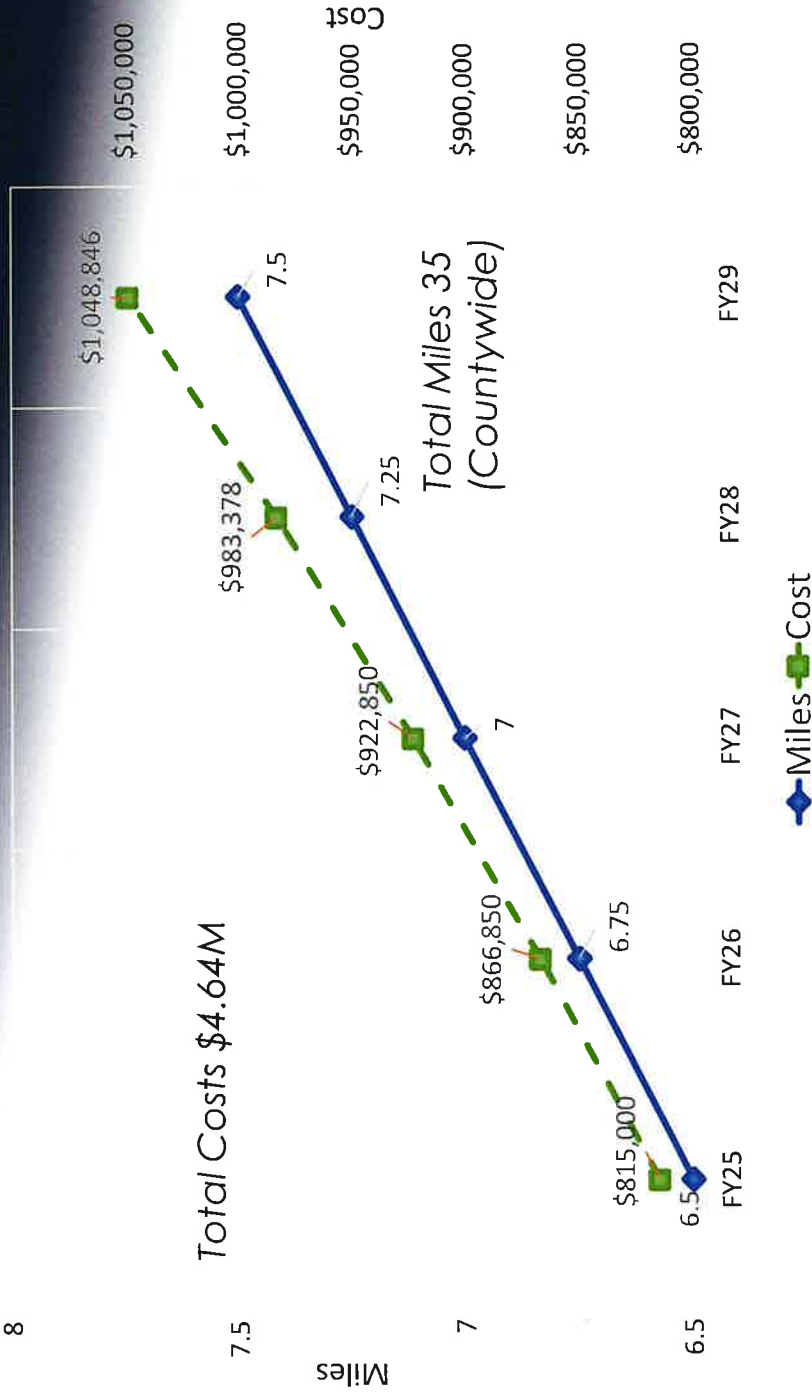
Number of Bridges



Sidewalk Program – 5 Year Plan

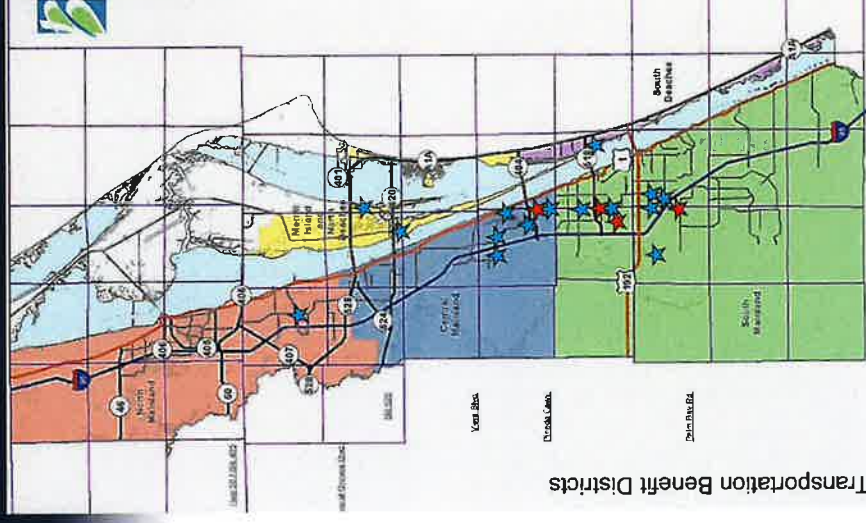
5-Year Maintenance and Rehabilitation Plan

8



- 720 Miles of County-Maintained Sidewalks
- Mileage Increasing Each Year
- District 2 and District 4 Highest #Miles
- Estimate about 30% of Total inventory Needs Repair-Replacement (216 miles)

Capacity Challenges



Central Mainland TIF Benefit District

- Barnes Blvd (1.4 miles)
- **Wickham Rd (0.5 miles)**
- Wickham Rd (2.5 miles)
- Suntree Blvd (0.4 miles)
- Pineda Cswy (2.7 miles)

South Mainland TIF Benefit District

- **Wickham (2.3 miles)**
- Wickham Rd (2.8 miles)
- **Ellis Road (1.7 miles)**
- Hollywood Blvd (3.1 miles)
- **Minton Rd (0.24 miles)**
- Minton Rd (2.3 miles)
- Palm Bay Rd (1.5 miles)
- St Johns Heritage Pkwy (3.0 miles)

North Mainland TIF Benefit District

Merritt Island & North Beaches TIF BD

- N. Banana River Drive (1.2 miles)
- S. Courtenay Pkwy (0.5 mile)

South Beaches TIF Benefit District

- Riverside Drive (1.4 miles)

Over-Capacity

Nearing Capacity

Recently Added

Capacity Mitigation Initiatives

- Intelligent Transportation System (ITS)

- Continuous technology upgrades countywide
- Remote Monitoring and Operating Capabilities

- Transportation Management Center (TMC):

- Construction is fully funded (50% grant)
- Collocated with the Space Coast TPO

- Traffic Congestion Management Study

- Causes of Congestion (i.e. traffic signal bottleneck)
- Mitigation Strategies
 - Low-cost technology measures in combination with High Benefit, Intersection Capacity/Efficiency Improvements

- Revenue Generating Options for Capacity and Maintenance February 2022



The technology used in ITS is constantly evolving

Questions?

