

City of Palm Coast, Florida Agenda Item

Agenda Date: February 13, 2024

Department	CONSTRUCTION MANAGEMENT & ENGINEERING	Amount	\$1,050,000.00
Division	ENGINEERING	Account #	21055011-034000- 54104
Subject: RESOLUTION 2024-XX APPROVING A PIGGYBACK CONTRACT WITH HERNANDO COUNTY, FLORIDA, AND ASPHALT PAVING SYSTEMS, INC. AND EXPENSES RELATED TO GLOBAL TREATMENT SERVICES			
Presenter: Carl Cote, Director of Stormwater & Engineering			
Attachments:			
<ol style="list-style-type: none"> 1. Presentation 2. Resolution 3. Engagement Letter 4. Proposal 			
Background:			
Council Priority:			
D. Sustainable Environment and Infrastructure			
<p>City staff and Transmap have put together a 5-Year Pavement Management Plan based on from City Council to only utilize current funding sources; no new funding source was approved to provide the necessary funding shortfall in the pavement management program. Staff will utilize the use of global treatments to reduce the current \$10 million-dollar annual funding shortfall. Various factors, the recommendation for Arterial and collector roadways is to utilize milling and resurfacing with full-depth repair where needed with a budget to maintain a 73 PCI over the upcoming outlook. For Local Residential Roadways, the plan would introduce global treatments with additional funds from maintaining the arterial network utilizing global treatments where possible.</p> <p>Staff is recommending piggybacking the Hernando County, Florida contract (#23-T00029) with Asphalt Paving Systems, Inc. through May 9, 2026, for global treatment services. Piggybacking competitively bid contracts is advantageous since the pricing is generally better than what the City could obtain on its own, and the City does not incur the expense and delay of soliciting a bid.</p> <p>This item is to approve a piggyback contract with Hernando County, Florida, and Asphalt Paving Systems, Inc., and expenses in the amount of \$955,210 to provide global treatment services. Staff recommends the approval of a contingency of \$94,790 for a total amount of \$1,050,000. Funds for these project are budgeted for out of the Street Improvement fund.</p>			

Source of Funds Worksheet FY 24

Street R&R 21055011-034000-54104	\$6,580,000.00
Total Expended/Encumbered to Date	\$2,192,355.93
Pending Work Orders/Contracts	\$0.00
Current (WO/Contract)	<u>\$1,050,000.00</u>
Balance	\$3,337,644.07

Original Background

In order to be more efficient with the limited funding available and ongoing needs (1,126 lanes) the city sought professional engineering services for the implementation of a pavement management program. This program is designed to preserve and extend the useful life of paved surfaces throughout the City and optimize the available funds to meet the network condition needs. With careful and diligent effort, highest performance standards are maintained while reducing the overall life cycle costs of managing the network pavement system.

On August 1, 2017, City Council approved a contract with Transmap Corporation to assist in the development of a Network Pavement Management System. The general objective was to hire a consultant to collect pavement data by way of a digital survey and to create a Pavement Condition Index (PCI) for each city-maintained roadway. The PCI allows the City to determine a pavement condition standard and plan for maintaining all roadways.

Given the persistent shortage of funds for maintaining these street systems, the preservation and stewardship of existing roads have become major activities for all levels of government. Another way of maximizing the return on investment for the money that exists for road maintenance is to implement a Pavement Management System. Pavement management is a systematic approach to extending the life of a pavement network. More specifically, it is the process of planning, budgeting, funding, designing, constructing, monitoring, evaluating, maintaining, and rehabilitating the pavement network to provide maximum benefits with available funds. A Pavement Management System provides tools and methods for finding and implementing the best Maintenance & Rehabilitation strategies. Repairing streets when they are still in fair condition ultimately cost less over the long term than waiting to fix roads that have fallen into poor condition. In other words, the proactive approach of routine pavement management means less money wasted on frequent roadway reconstruction and potential savings of millions of dollars.

On August 28, 2018, City Council was presented with the findings of the Final Pavement Management Report. Those findings determined that Arterial and Collector roadways had a PCI average of 78. Local roadways had a PCI average of 78. In order to maintain the current level of service, and to meet the PCI average, additional funding was requested however it was not approved by City Council.

In order to provide a more accurate forecast and better performance model for roadway maintenance it is recommended to have the roadways digitally surveyed every 4 to 5 years. On August 1, 2018, City Council approved a Work Order with Transmap Corporation to conduct a survey and to provide a report and updated forecast for the city's pavement management program comparing project costs as well as recommended funding needed to maintain the current roadway system condition for commercial and residential roads.

This item is a presentation to present City Council with the findings and funding needs based on an updated survey that was completed with proposed new revenue options to provide the necessary funding.

Recommended Action:

ADOPT RESOLUTION 2024-XX APPROVING A PIGGYBACK CONTRACT WITH HERNANDO COUNTY, FLORIDA, AND ASPHALT PAVING SYSTEMS, INC. AND EXPENSES RELATED TO GLOBAL TREATMENT SERVICES



Pavement and Roadway Asset Management Program

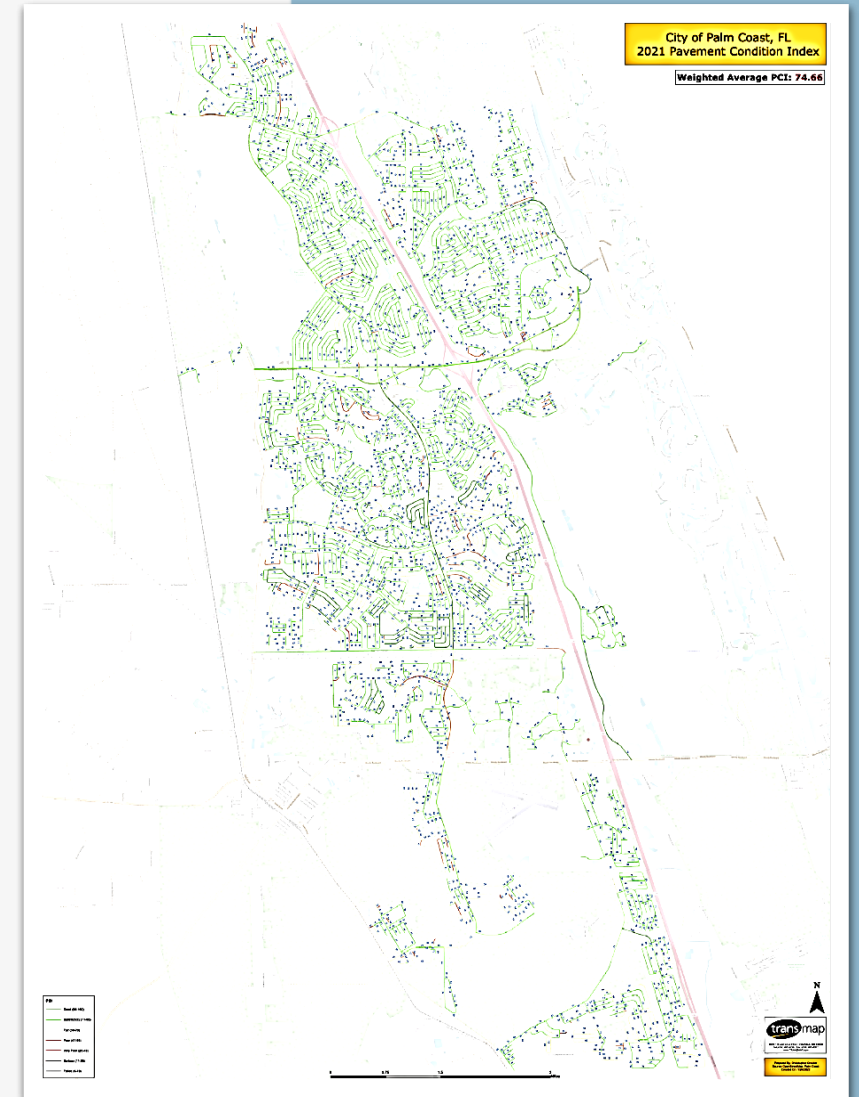
City Council Update: February 13, 2024

Presentation Overview

- **Palm Coast's Road Network**
- **Resurfacing History**
- **Looking Forward**
 - **Implementation Criteria**
 - **5-Year Pavement Management Plan**
- **Council Actions**



City of Palm Coast Roadway Network



City of Palm Coast Pavement Network

- 542+/- Centerline Miles
- Total Value - \$846M*

Roadway Class	Center Line Miles	Lane Miles	% Lane Miles
Arterial & Collector	103.12	246	21.8%
Local	439.14	880	78.2%
Total	542	1126	100%

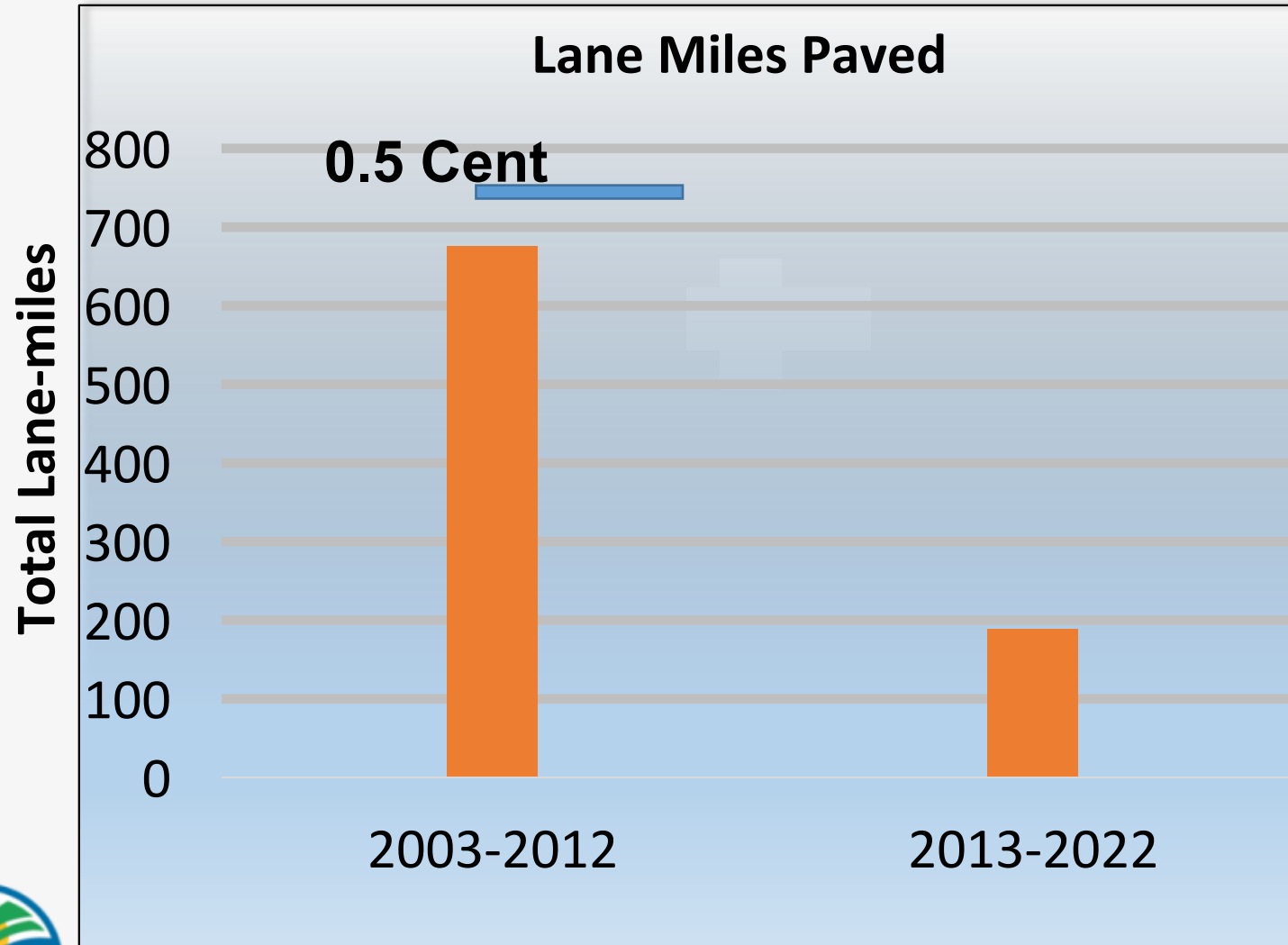


* Average full construction cost, \$1.56M/mile – Transmap report

Resurfacing History



Milling & Resurfacing History



New Roadways or Resurfacing as part of Roadway Improvement Project

Pine Lakes Parkway (north)

Palm Coast Parkway (6 lanes)

Palm Harbor Extension

Royal Palms Parkway (west)

Bulldog Drive

Old Kings Road Extension

Old Kings Road Widening



Source: PC Staff Spreadsheet, PC Milling and Resurfacing History

Pavement Management Program

Year	Approach
2002-2017	Worst-First Approach City Staff Inspected/Identified Roadways to be Repaved Milling & Resurfacing Only
2017	City had a Pavement Condition Rating Assessment Completed to Generate a Pavement Asset Management Program (Pavement Condition Index (PCI) established for each road)
2021	Update of Roadway PCI Completed



Roadway Conditions – Arterial

2017	PCI Range	Condition	2021	Road % / Lane Miles	
PCI=79	86-100	Good	PCI=73	11.11%	27
	71-85	Satisfactory		50.75%	125
	56-70	Fair		30.43%	75
	41-55	Poor		6.09%	15
	26-40	Very Poor		1.20%	3
	25-Nov	Serious		0.42%	1
	0-10	Failed		0.00%	



Roadway Conditions - Residential

2017	PCI Range	Condition	2021	Road % / Lane Miles	
PCI=74	86-100	Good	PCI=70	4.79%	42
	71-85	Satisfactory		48.01%	422
	56-70	Fair		40.07%	353
	41-55	Poor		6.03%	53
	26-40	Very Poor		1.00%	9
	25-Nov	Serious		0.09%	1
	0-10	Failed		0.01%	-



Looking Forward



Implementation Criteria

- **Utilize Only Current Funding Sources; NO New Dedicated Revenue Source**
- **Continue to Not Provide Funding for Median Beautification, Entry/Gateway/ Neighborhood Signs, and Sidewalks**
- **Arterial & Collector Roadways**
 - Milling and Resurfacing Only (full-depth repair as needed)
 - Funding to Maintain at Least a 73 PCI in the 5-Year Outlook
- **Residential Roadways**
 - Introduce Global Treatments to Local Residential Roadways
 - FY24: \$1,000,000
 - FY25-28: No Funding Available



5-Year CIP (FY24 - 28)

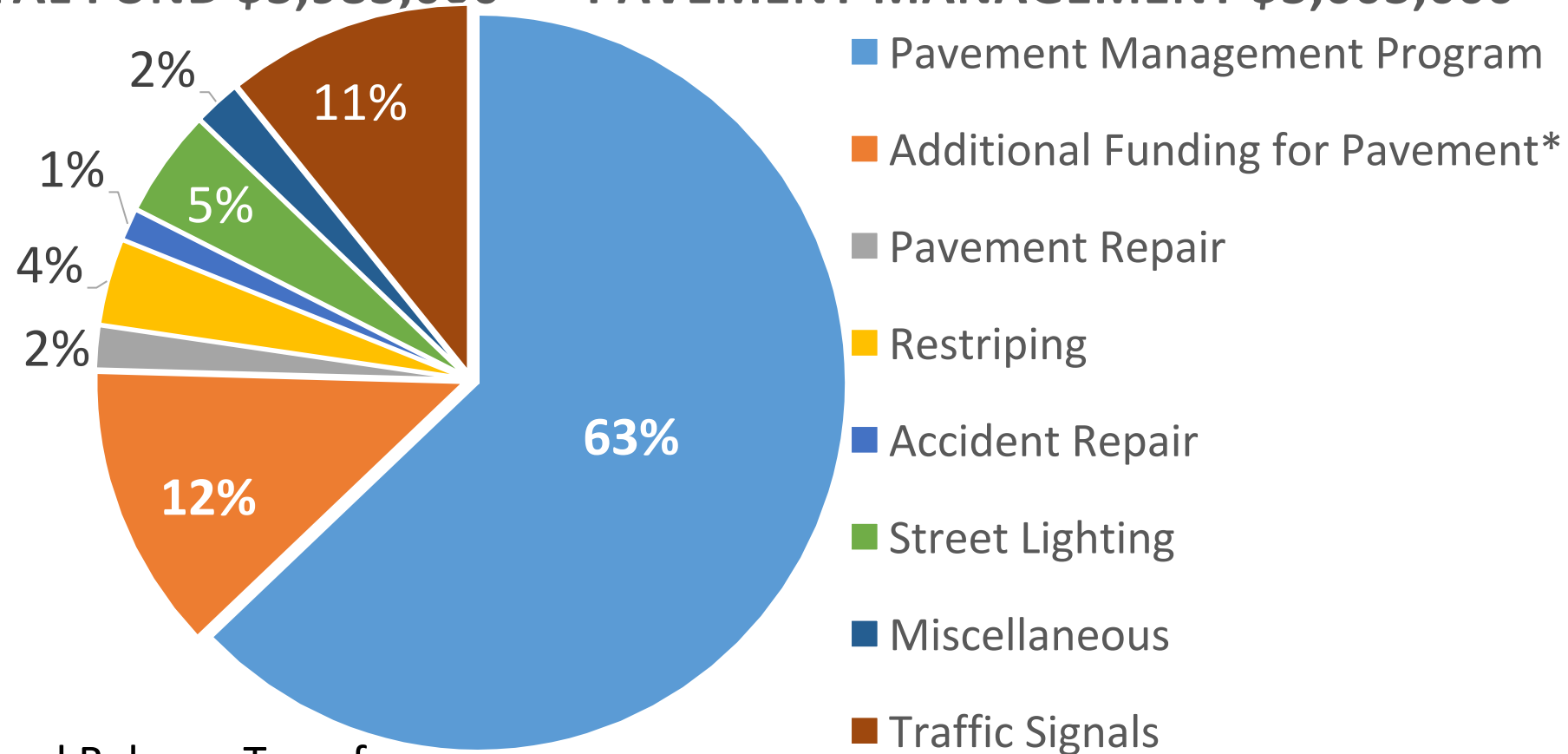
STREETS IMPROVEMENT FUND

FUEL TAX REVENUE + MUNICIPAL REVENUE SHARING TAX + ADDITIONAL FUNDS

YEARLY AVERAGE: TOTAL FUND \$3,983,000* – PAVEMENT MANAGEMENT \$3,003,000

UNFUNDED ITEMS:

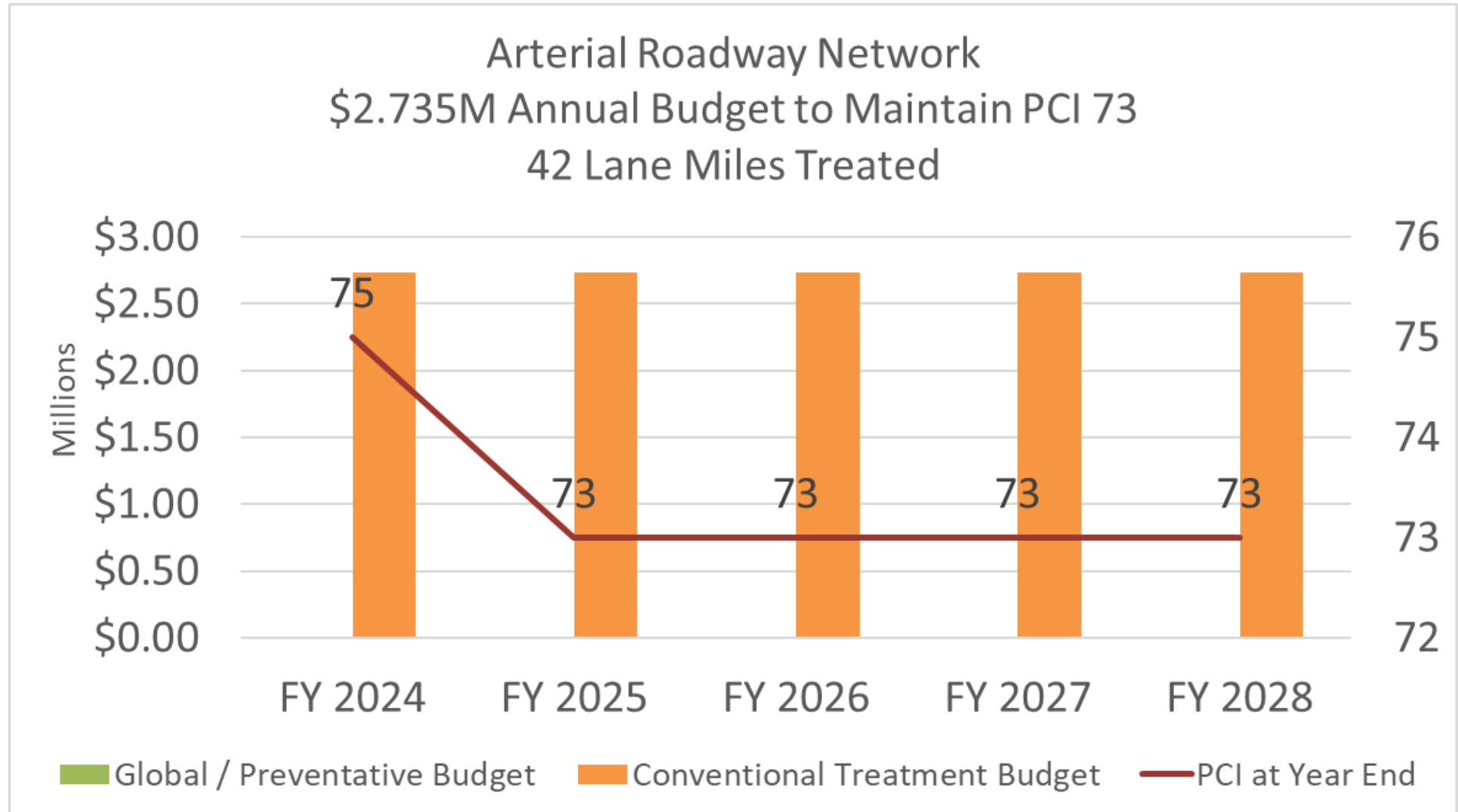
- Median Beautification
- Entry/Gateway Signs
- Neighborhood Signs
- Sidewalks



*One-Time General Fund Balance Transfer

• Source: PC Staff Spreadsheet, Five Year Capital Improvement Plan

5-Year Pavement Management Plan



5-Year Pavement Management Plan

Arterial Roadways

➤ FY24:

- Rymfire Drive
- Pine Lakes Parkway. (Belle Terre to Belle Terre)
- Royal Palms Parkway (Belle Terre to Town Center)

FY24/FY25:

- Whiteview Parkway (US 1 to Pritchard)

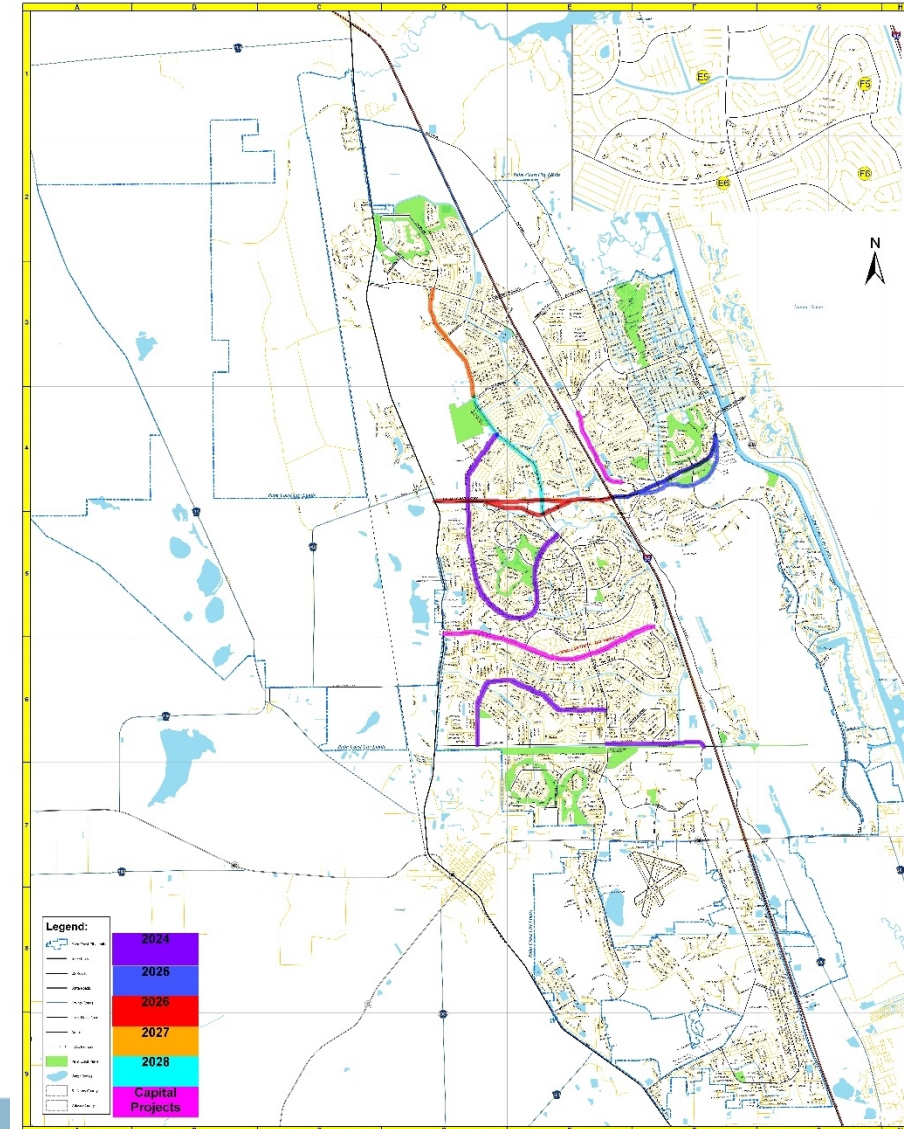
➤ FY25 / FY26:

- Palm Coast Parkway (US 1 to Belle Terre)
- Palm Coast Parkway (Belle Terre to Palm Harbor)
- Old Kings Road (Harbor Center to Frontier)*

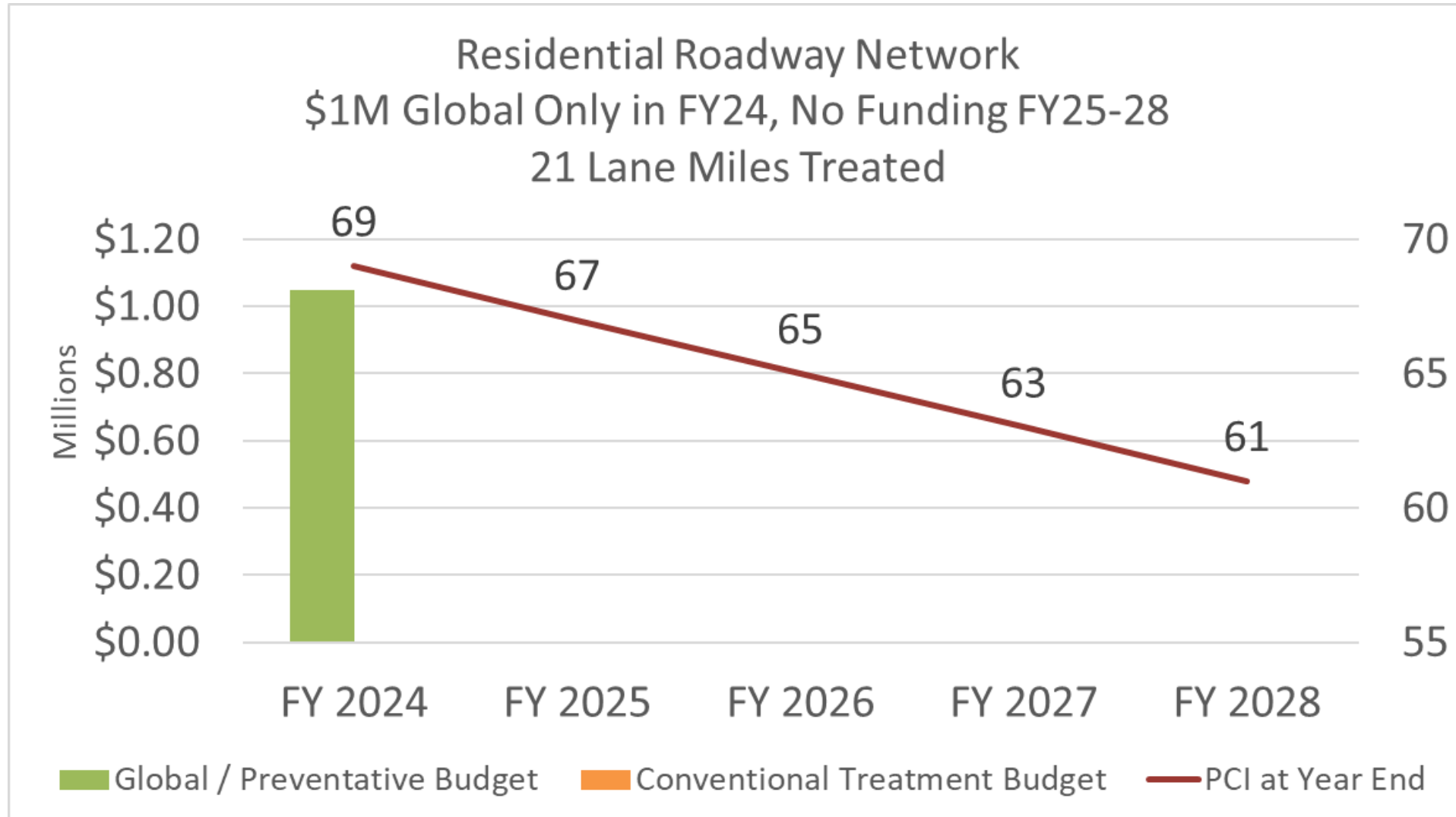
➤ FY27 / FY28:

- Belle Terre Parkway (Palm Coast to Bird of Paradise)
- Belle Terre Parkway (Bird of Paradise to Matanzas)

**FDOT Grant Funded Project – OKR Widening Phase 2*



5-Year Pavement Management Plan



5-Year Pavement Management Plan

Residential Roadways

➤ FY24:

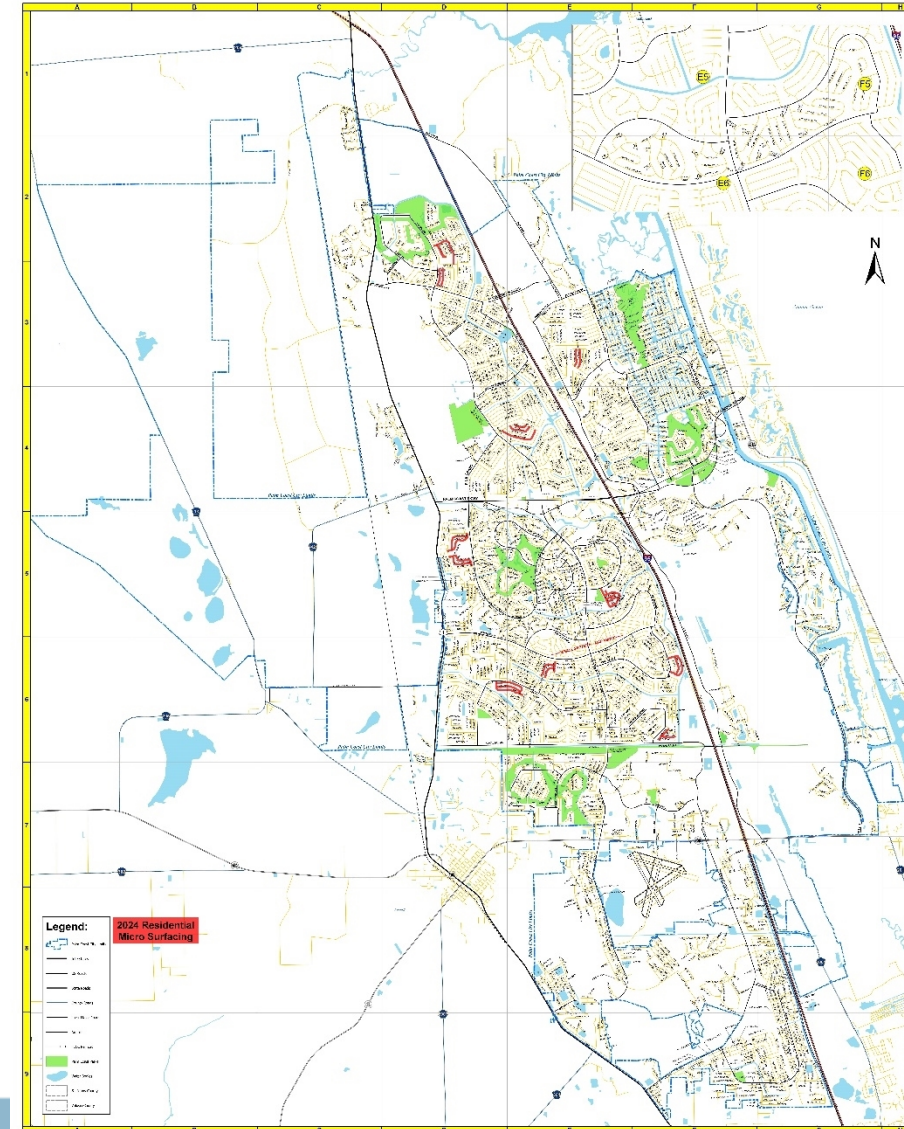
BANNBURY LN
BANNER LN
BARLEY LN
FAIRCHILD LN
FAIRHILL LN
LAMAR LN
LAMOYNE LN
LANGDON DR
LANSING LN
PILGRIM DR

PILLAR LN
PILLORY LN
PLAINVIEW DR
PLATEAU LN
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PLEASANT LN
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PORPOISE LN
PORWYN LN
RANCH WAY

RANSHIRE LN
RANWOOD LN
RIVERA LN
RIVERINA DR
RIVIERE LN
WOODHOLLOW LN
WOODHOLME LN
WOODWARD LN
WOODWORTH DR

FY25 – FY28:

- No Roadways Planned



Council Actions

Current Council Action

- Approve Piggyback Contract with Hernando County, Florida and Asphalt Paving Systems, Inc., to Provide Global Treatment Services
- Approve Expenses for Global Treatments in the Amount of \$1,050,000
 - \$955,210.00 Contract and \$94,790.00 Contingency

Future Council Actions

- Approve Contract for Resurfacing of Arterial Roadways, Construction Engineering & Inspection Services, and Project Contingency
- Adopt Additional Revenue Source(s) to Fund the Shortfall in the City's Pavement Management Program



RESOLUTION 2024-____
PAVEMENT MANAGEMENT

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF PALM COAST, FLORIDA, APPROVING A PIGGYBACK CONTRACT WITH HERNANDO COUNTY, FLORIDA, AND ASPHALT PAVING SYSTEMS, INC., AND EXPENSES RELATED TO GLOBAL TREATMENT SERVICES; AUTHORIZING THE CITY MANAGER, OR DESIGNEE, TO EXECUTE SAID CONTRACT; PROVIDING FOR SEVERABILITY; PROVIDING FOR CONFLICTS; PROVIDING FOR IMPLEMENTING ACTIONS AND PROVIDING FOR AN EFFECTIVE DATE

WHEREAS, Asphalt Paving Systems, Inc., has expressed a desire to provide global treatment services to the City of Palm Coast; and

WHEREAS, the City Council of the City of Palm Coast desires to approve piggybacking the Hernando County contract with Asphalt Paving Systems, Inc., and expenses related to the global treatment services.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF PALM COAST, FLORIDA AS FOLLOWS:

SECTION 1. LEGISLATIVE AND ADMINISTRATIVE FINDINGS. The above recitals (whereas clauses) are hereby adopted as the findings of the City Council of the City of Palm Coast.

SECTION 2. APPROVAL OF PIGGYBACK AND FUNDING. The City Council of the City of Palm Coast hereby approves piggybacking the contract between Hernando County contract with Asphalt Paving Systems, Inc., and expenses related to global treatment services, as attached hereto and incorporated herein by reference as Exhibit “A.”

SECTION 3. AUTHORIZATION TO NEGOTIATE, FINALIZE, AND EXECUTE. The City Manager, or designee has the authorization to negotiate, finalize and execute the necessary documents.

SECTION 4. FUTURE AMENDMENTS. The City Manager, or designee is hereby authorized to approve any future amendment for additional funding for changes totaling less than \$50,000.00 as long as this amount does not exceed the line-item limit for the budgeted purchase.

SECTION 5. SEVERABILITY. If any section or portion of a section of this Resolution proves to be invalid, unlawful, or unconstitutional, it shall not be held to invalidate or impair the validity, force, or effect of any other section or part of this Resolution.

SECTION 6. CONFLICTS. All resolutions or parts of resolutions in conflict with any of the provisions of this Resolution are hereby repealed.

SECTION 7. IMPLEMENTING ACTIONS. The City Manager is hereby authorized to take any actions necessary to implement the action taken in this Resolution.

SECTION 8. EFFECTIVE DATE. This Resolution shall take effect immediately upon adoption by the City Council.

DULY PASSED AND ADOPTED by the City Council of the City of Palm Coast, Florida, on this 20th day of February 2024.

ATTEST:

CITY OF PALM COAST

KALEY COOK, CITY CLERK

DAVID ALFIN, MAYOR

APPROVED AS TO FORM AND LEGALITY

ANTHONY A. GARGANESE, CITY ATTORNEY

Attachments: Exhibit “A” – Engagement Letter with Hernando County Asphalt Paving Systems, Inc., Proposal