MEMORANDUM

Date: May 16, 2023

To: Honorable Mayor and Commissioners

Via: Albert P. Childress
             City Manager

From: Gary Volenec,
             Interim Engineering Director

Subject: **Citywide Pavement Condition Index (PCI) Evaluation**

Introduction

In preparation for the upcoming 5-year PCI Evaluation, the Engineering Department undertook a review of the latest technology/vendor systems available to evaluate pavement condition of roadways within the City rights-of-way.

Background

The City of Key West City Commission has approved two (2) previous contracts for pavement condition evaluation studies to be conducted every 5 years to verify the overall PCI conditions of roadways within the City rights-of-way. These studies, the most recent being completed in 2018, are used to assess the relative conditions of existing pavements to help develop a roadway improvements plan to identify specific rehabilitation or repaving projects. The Key West FORWARD Strategic Plan specifically calls out for the periodic roadway condition assessment in Goal 1: Pavement Plans and Preventative Maintenance, under Priority 3: Roads and Sidewalks.

Engineering staff participated in multiple presentations with vendors and follow up meetings to review the various systems available. Following a 2-month review process, a ranking of the systems based on the options offered by their respective methodology was prepared as follows:

1.   Roadrunner
2.   Roadinsights
3.   Roadbotics
4.   Existing Pavement Management Reporting

Of the four systems considered, the Roadrunner software by Roadway Management Technologies, LLC (RMT) was found to be the most advantageous for several reasons, including being a cloud-based system that records data year-round and provides continuous road surveillance along with weekly updated photos at 100' foot intervals of the City rights-of-way. Additionally, it allows for comparison of various pavement cost/rehabilitation strategies to maximize the return on investment for the City.

The two previous PCI studies performed for the City by CH2M Hill/Jacobs were based on truck mounted monitoring sensors that provided a one-time drive of all the City's streets to record the condition of each road segment. For a price comparison, in 2018 the City paid CH2M Hill/Jacobs just under $100,000 for the PCI evaluation study. We feel the value of the Roadrunner system clearly exceeds the methodology employed in previous PCI evaluation studies.

Procurement

The cost of the PCI Evaluation program is $21,000 per year, beginning in the current fiscal year, with a 2-year commitment. The PCI Evaluation program is not a FY2023 budgeted expenditure and the funding for the initial year of the program will need to be transferred from the Internal Improvements/Gas Tax reserve account 102-4107-541-9803 to account 102-4102-541-5400 to complete the procurement.

Recommendation

The City Manager's Office recommends the Mayor and Commission approve the procurement of the Roadrunner PCI software from RMT for use in conducting the PCI Evaluation of City roadways, authorizing any necessary budget transfers and adjustments needed.

CC: Gary Volenec, P.E., Engineering Director