



MEMORANDUM

To: Mayor and City Council

From: Kent Collins, P.E., Director of Public Works

Date: August 14, 2018

Reference: Consulting Contract for an Asset Management Program with Alan Plummer Associates, Inc.

2030: Sustainable City Government, Goal 3
Excellent and Well-maintained City Infrastructure and Facilities

General Information:

- This is a consulting contract for an Asset Management Program
- Includes Water and Wastewater infrastructure
- Develop risk-based prioritization of infrastructure
- Long term sustainability analysis and investment forecast (10-50 Year)
- Total Cost is \$183,000.00.

Introduction:

This item is to consider approval to enter into a contract with Alan Plummer Associates, Inc for the development of an asset management program for our water and wastewater infrastructure. The Public Works department maintains over 200 miles of water line and 200 miles of waste water lines. The majority of Coppel's infrastructure was installed in the 1990's and early 2000's with the initial development of utilities in the late 1960's and 1970's. Coppel has been fortunate that a majority of the infrastructure is relatively new and has needed very little maintenance. The older infrastructure has been repaired, replaced and/or maintained on an as needed or a reactive basis. This program will assist us in prioritizing projects, maintenance schedules and replacement schedules in a more efficient manner to get the useful life of each asset. This will also allow us to be proactive to help minimize unexpected failures.

Analysis:

An asset management program is a sequential optimization process that continuously improves the infrastructure inventory, condition, performance and maintenance knowledge of each asset in the system. This allows us to appropriately allocate resources for the asset maintenance or replacement. The plan that will be put together by Alan Plummer Associates will summarize the results of a

comprehensive asset inventory, provide recommendations for short-term action items and provide future investment profiles to asset rehabilitation or replacement.

The scope of work will include an asset inventory which includes geographical locations, physical characteristics and conditions. A risk assessment of the system will consider the likelihood of failure, consequence of failure in terms of level of service and potential consequential damages. This tool will allow us to implement a long-term sustainability analysis that will provide both a near term 10-year inspection plan as well as a long-term (50-year) investment forecast for renewal.

The deliverables from Alan Plummer will then be input into our Tyler Technologies Enterprise Asset Management software to maintain the plan.

Legal Review:

This item did not require legal review.

Fiscal Impact:

The fiscal impact of this Agenda item is \$183,000.00 as provided in the water/sewer fund.

Recommendation:

The Public Works Department recommends approval of this contract with Alan Plummer Associates, Inc.