



Interoffice Memorandum

April 2, 2021

To: Mayor Jerry L. Demings
-AND-
County Commissioners

From:  Carrie Mathes, CFCM, NIGP-CPP, CPPO, C.P.M., Manager, Procurement Division

Contact: Troy Layton, Manager, Utilities Field Services Division,
407-254-9880

Subject: Ratification of Purchase Order M103936, Emergency Repair for 24-Inch Force Main Failure

ACTION REQUESTED:

Ratification of Purchase Order M103936, Emergency Repair for 24-Inch Force Main Failure, to Prime Construction Group, Inc., in a not-to-exceed amount of \$1,000,000.

PROCUREMENT:

The project provides for the emergency repair of a 24-inch pressurized force main discharging from Pump Station #3411 located at 5850 Clarcona-Ocoee Road, Orlando, Florida 32810.

FUNDING:

Funding is available in account number 4420-038-1347-3843.

APPROVALS:

The Utilities Field Services Division concurs with this recommendation.

REMARKS:

Orange County Utilities (OCU) has a master pump station that re-pumps 53 other pump stations as part of OCU's northwest service area. The station is located on Clarcona-Ocoee Road just west of the intersection with Pine Hills Road. This pump station transmits flow from the master station to our Northwest Water Reclamation Facility via pipe installed over 30 years ago. Over the past years, and in coordination of roadway projects within this area, pipes are being replaced using current standards for pipe material on pressurized force mains (PVC). However, the majority of the piping network in this section is Precast Concrete Cylinder Pipe (PCCP) with no history of breaks. This particular segment is leaking sewage at a significant rate with unknown cause at this time. OCU staff do not have the resources to be able to bypass the station and make the necessary repairs. OCU has stabilized the

area of the leak with rock and is pumping sewage back to the master pump station to mitigate the sanitary sewer overflow.

The repair requires multiples line stops due to the lack of valves in the vicinity of the failure. Further, bypass piping is required to maintain service to the master pump station. Finally, the PCCP will be removed and replaced new 24-inch PVC with at an unknown length at this point.

The cost of the project includes specialized pipe, unknown repair length, and the possibility of other unknown underground conditions. This will require custom-made fittings that are not readily available, custom sleeves for taps to install line stops, and valves in order to control the flow. Once the Contractor controls the flow, the pipe can be exposed to determine the extent of the repair needed.

It was critical to expedite this repair due to the safety issues of the existing failure, possible fines due to sanitary sewer overflow, and risk of damage worsening. Failure to have this work performed immediately would result in safety risk to the public, environment and additional costs to the County. Additionally, Orange County is under consent order to the Florida Division of Environmental Protection for sanitary sewer discharges. If the pipe fully ruptures, repair will take multiple weeks resulting in daily fines and environmental impacts. Therefore, this project was procured via emergency procedures.

The Purchase Order was issued to Prime Construction Group, Inc. a full-service underground contractor that has successfully performed multiple pipeline repair and replacement projects with OCU. They had the ability to mobilize immediately, familiarity with soliciting custom-made parts that will be required for this work, and has experience working on emergency projects. Pricing for these services will be based on times and materials, to be negotiated by the County.