



THE CITY OF KEY WEST

Post Office Box 1409 Key West, FL 33041-1409 (305) 809-3700

MEMORANDUM

TO: Jim Scholl, City Manager
Greg Veliz, Assistant City Manager

FROM: John Paul Castro, Utilities Director

DATE: December 7, 2017

SUBJECT: Approving the Task Order for North Roosevelt Outfall Repair to D.N. Higgins, Inc. in the amount of \$83,221.27 Pursuant to General Utilities Contract Resolution 15-292

Action Statement:

This resolution will approve the task order for North Roosevelt Outfall Repair to D.N. Higgins, Inc. in the amount of \$83,221.27 Pursuant to General Utilities Contract Resolution 15-292. The outfall was damaged by a contractor for The Gates Hotel/Latitude 24 who drove concrete light pole bases through the outfall.

Background:

The City started the Donald Canal project prior to Hurricane Irma. To start the project the canal a bulkhead had to be created shutting off flow from one side to the other. The Donald Canal system flows through 2 outfalls that go out under Sears and into the bay and then goes east connecting into the collection system on Northside Drive and out through another 40" outfall that goes in between the Gates and Latitude 24 hotels and also drains into the bay creating a big U.

Creating a bulkhead to stop flow of the canal should not limit drainage since the system can drain in either direction. After hurricane Irma the water in the Canal and Pond was elevated. After a few days we noticed the level was not lowering and started to investigate. The east side of the canal and Northside Drive collection system in that area goes through the outfall by the Gates Hotel.

City staff and OMI ran a water jet line from the manhole on Northside Drive toward the outfall to see if we could clear the line. The jet hit a wall and got stuck. We noticed a line of light poles visually in perfect line with the outfall pipe. The jet was shaking the light pole. We dug out around the light pole which was on a 14' long 18" diameter concrete base. The contractor had drilled and punctured the outfall with the base for the light.

There is another manhole within the hotel green space that connects to the system. We ran the water jet from mid-section back toward the lights and found that the third light pole in the row did not hit the pipe but the second one had also punctured the pipe.

Key to the Caribbean – Average yearly temperature 77° F.

Purpose and Justification:

On November 3rd, the City issued a task order to D.N. Higgins in the amount of \$15,307.27 to plug and pump down the outfall system to determine the method of repair. After pumping the system down we determined that the pipe had been drilled through the top and bottom in both locations.

The repair will require the 40" pipe to be plugged from both sides. A large dewatering tank will remove sediment before discharge. This will allow the contractor to get water down to a level where the repair can be made. A doghouse structure will be put over each section of compromised pipe and then a concrete bottom will be poured into the pipe and around the pipe to create a sealed box.

The hotel ownership and engineer are aware that their contractor was responsible for the damage. The City will require full recovery of expenses incurred for the investigation and repair of the damaged outfall.

Options:

1. Do not approve the task order to repair the pipe. Staff does not recommend this option. This would leave the system with a much lower rate of drainage for heavy rain events and storms.
2. Approve the task order to repair the outfall in the amount of \$83,221.27 to D.N. Higgins. This would get the drainage system back to full capacity and flow.

Financial Impact:

All expenses related to the damaged outfall will be recovered from the responsible party. The total cost to contractors will equal \$98,528.54. Staff and OMI labor expenses will be calculated separately and added.

Recommendation:

City Staff recommends Option 2, approving the task order to D.N. Higgins to repair the North Roosevelt outfall for \$83,221.27