



MEMORANDUM

Date: October 10, 2024

To: Honorable Mayor and Commissioners

Via: Todd Stoughton
Interim City Manager

From: Matt Willman
Interim Utilities Director

Subject: **File ID 24-6395: Approval of Task Order 07-24 proposal from Jacobs Engineering Group, Inc. for engineering services for the rehabilitation of Sanitary Pump Station R**

Introduction

Authorize the City Manager to execute task order 07-24 proposal from Jacobs Engineering Group, Inc. in the amount of \$296,331.00 for design, permitting, bid and construction phase services for the rehabilitation of the City's sanitary pump station "R" located at the west end of Donald Avenue, and authorize any necessary budget transfers.

Background

The City of Key West (CKW) owns and operates twenty-five wastewater pump stations responsible for conveying wastewater flows to the Richard A. Heyman Environmental Protection Facility. In 2015 CH2M Hill Engineers, now Jacobs Engineering Group, Inc. created a pump station condition assessment for the City's 25 wastewater stations, which was updated just last year. Since 2015 the City has budgeted and completed much of the needed work prioritized in the assessment. Pump station "R" is the next station that is in most need of restoration and improvements. Pump station R services 16.9 acres of commercial, residential and mixed-use parcels in the northern portion of the New Town community and is located on the eastern portion of the island near the Poinciana Mobile Home Park. This service district encompasses Cozumel Park and Marriott's Beachside Hotel, serves approximately 3,100 permanent residents and a transient population of 2,780. Along North Roosevelt Blvd. there are shopping centers, fast food restaurants and chain hotels, while the rest of this district is comprised of single-family homes for full time residents.

Since the 2015 inspection and assessment, pump station R has undergone further deterioration. City and Jacobs maintenance staff and engineer did their own site assessment and compiled a list of current needs and upgrades shown below. The scope of work for the pump station upgrades is to add, replace and repair deteriorating equipment so that the pump station continues to operate in improved and sound condition. The rehabilitation of Pump Station “R” consists of the following upgrades:

- **Generator and platform:** Generator needs assessment/inspection. Need new ATS and controller Generator base needs wire brushing, and painting. Need new flow meter, salinity meter, control panel with TCU and main shut off.
- **Odor control unit** – None presently working. Need new - space issues? Possible room next to generator platform after removal of existing odor control unit and relocation of 2” back flow preventer or redesign the generator platform and elevate the new odor control unit.
- **Valve vault:** New plug valves, check valves and bypass valves and assemblies. Redesigned access hatch. Recoat walls and floor after new hatch(es) installed.
- **Wet Well:** New pumps with soft starts, rails and base plates. Possible reline wet well floor after modifications. PVC wall lining is in good condition. New access hatch.
- **Flow Meter Vault:** New flow meter. New access hatch or repair existing. Recoat walls and floor.
- **Pipe:** Replace DIP with HDPE within pump station area to the street – all necessary bracing within vaults and restraints as needed.
- **Bypass Pumping** – bring above ground with new isolation valve.
- **Fresh water backflow preventer:** Relocate closer to fence line.
- **Site lighting:** Relocate light from power pole and on to a dedicated pole(s) inside station.
- **Fence restoration:** replace or repair like kind or composite – needs to be more secure than existing
- **Relocate Antenna away from tree**

Procurement

The amount proposed by Jacobs Engineering for this task is \$296,331.00 and is budgeted in account 401-3503-535-6500 / SE35032301.

Jacobs will be performing the work outlined in the task order under the General Engineering Services contract authorized per Resolution 23-029 and executed on March 28, 2023.

Recommendation

The City Manager’s Office recommends the Mayor and City Commission approve Task Order 07-24 proposal from Jacobs Engineering Group, Inc. for engineering services to rehabilitate pump station R and authorize any necessary budget transfers.

Exhibits:

Exhibit A – Task Order 07-24

Exhibit B – Resolution 23-029

Exhibit C – Jacobs Engineering Group contract

Exhibit D – Lift Station Plan