

# **Draft City of Cocoa Task Order 2022-18 FY22 Water Field Operations (WFO) Division and Cross Connection Control (CCC) Support**

Services proposed by JACOBS Engineering Group (JACOBS) in this Task Order will be performed in accordance with the Agreement for Continuing Engineering Services for Water System awarded by the City of Cocoa on February 5, 2020.

## **Background**

Since 2010, the City of Cocoa Utilities Department has successfully implemented the following programs: Valve and Hydrant Assessment Program, Valve Replacement Program, Cross Connection Control (CCC) Program, Pipe Assessment/Repair Program and Water Quality Coordination and Support Services. These programs provide data critical to the successful implementation of a proactive asset management team within Water Field Operations (WFO).

This task order will provide services to the City's personnel on Repair and Maintenance (R&M) projects in the form of additional project management assistance, Contractor monitoring and documentation of activities, data management, quality control assistance for R&M Programs, and will assist with Contractor oversight, quality control, public relations, and data management for the CCC Program.

## **Scope of Services**

JACOBS will assist WFO staff in asset replacement activities, scoping and, organizing and utilizing asset data, providing technical evaluations and studies for future distribution system improvements, and recommendations for increasing staff collaboration and interactions. The services under this Task Order will include providing project and asset information management assistance and Contractor oversight, quality control, public relations, and data management for the CCC Program.

Following is a detailed description of each task including key assumptions made in the development of the scope and level of effort.

### **Task 1 WFO & CCC Project Management and Asset Management Assistance**

JACOBS will provide project management assistance in the form of documentation of asset management activities performed by WFO Staff, assistance with uploading of distribution system improvements to the GIS database, monitoring of existing and new outside vendors/contractors' activities, and collection and transfer of information and data to City personnel and GIS database. This task will also include status updates, meeting coordination, and data management. JACOBS will also provide project management assistance in the form of coordinating and monitoring monthly CCC Program progress meetings, responding to Contractor questions, monitoring Contractor activities, and assisting in FY23 planning. This task will also include invoicing, status updates, and administrative assistance.

JACOBS will meet with WFO personnel to review internal field activities including assessments, replacements, and improvements of distribution assets. These meetings will include documentation of information regarding:

1. Recommended replacement/improvements of valves, hydrants, and pipelines, including assets that require further WFO investigations.
2. Which assets might be repaired or replaced by City personnel.
3. Which assets should be replaced by a licensed Contractor.

After each meeting, JACOBS will document the results of ongoing and completed field investigations, decisions on dispositions of assets, and a list of required updates to the Utilities' asset databases. One meeting every month is anticipated.

JACOBS will provide as-needed GIS and information management support services to field operations staff. Types of support activities for field operations staff may include but is not limited to; GIS map production to support operational activities and Emergency events (hurricane valve operations and post hurricane program management activities), GIS data creation and maintenance to support programs in WFO (XC2 replacement activity and Inframap field application), and GIS tasks related to data QA QC activities (compare and validate vendor supplied data from programs).

JACOBS will continue their assistance to WFO Staff in implementing the quality control processes for activities associated with distribution system asset replacement and/or repair. The processes will include technical guidance to WFO Staff on review of design documents, oversight and electronic documentation of field activities, use of work plans and scopes for distribution system improvements, engineering oversight and review of invoices. JACOBS will provide assistance in the quality control processes.

## **Task 2 – Cross Connection Control Program**

### **Contractor Coordination and Documentation**

JACOBS will meet with Water Field Operations (WFO) personnel and the CCC Program Contractor to update progress in surveying, testing, repairing, and replacing commercial and residential CCC devices. JACOBS will provide coordination, agendas, and documentation of all meetings. One meeting each month is anticipated.

This task also includes assistance in documenting customer interactions with CCC Contractor staff. JACOBS will assist Utilities Staff with public notifications and updates. In addition, JACOBS will provide coordination with the Contractor concerning daily field activities, unusual field discoveries, equipment needs, and miscellaneous assistance.

### **Data Management and Quality Control**

JACOBS will review Contractor submitted data in order to verify accuracy and thoroughness of data and to ensure proper formatting of data for uploading to the City's GIS database. Contractor invoices will be reviewed against the Contractor approved data for verification of accepted quantities. JACOBS will coordinate with the Contractor to correct any deficiencies or discrepancies in data or invoicing prior to submittal to the City.

JACOBS will document and coordinate field activities required by WFO Staff to address anomalies and provide field review of CCC Contractor's data. In addition, JACOBS will document any inconsistencies found in the City's CCC database, as determined in the field, and coordinate with

City Staff on possible solutions and the documentation of any data update processes. JACOBS Staff will provide a monthly report summarizing CCC Program activities and statistics.

JACOBS will provide assistance to City Staff in implementation of infraMAP NOW (web-based field services software) and assist with data transfer from the existing software system, report writing, Contractor training, data updates, and database management.

## **Strategic Planning**

JACOBS will assist City Staff with the planning and implementation of the long term strategic plan for the CCC Program. JACOBS will assist the City in determining projects, process improvements, and resources required for the implementation of a comprehensive CCC Program. JACOBS will provide coordination and documentation of all planning activities and vendor interactions.

## **Safety**

JACOBS will manage the health, safety and environmental activities of JACOBS staff to achieve compliance with applicable health and safety laws and regulations.

JACOBS will notify affected personnel of any site conditions posing an imminent danger to them which JACOBS observes.

JACOBS and JACOBS' personnel have no authority to exercise any control over any contractor or other entity or their employees in connection with their work or any health or safety precautions and have no duty for inspecting, noting, observing, correcting, or reporting on health or safety deficiencies of the contractor(s) or other entity or any other persons at the site except JACOBS' own personnel.

## **Assumptions**

JACOBS will reasonably rely upon accuracy, and completeness of the information/data provided by the City, or other third parties.

Any review by JACOBS of designs or work product prepared by a third- party shall be for general conformance with the design intent, drawings and specifications but not a complete review of all design details and calculations. The Designer and their design professionals shall remain responsible for the accuracy and completeness of their design and construction documents. Jacobs does not assume any liability for work product(s) prepared by third parties, including but not limited to design and related work and makes no representation or warranty regarding same.

JACOBS Quality Control services are in an advisory role only and offered for the City's consideration. Jacobs does not assume any liability associated with the City's staff in the execution of their work.

## **Schedule**

This task will begin in October 1, 2021 or upon City Council approval, whichever is later, and continue through September 30, 2022.

## Compensation

JACOBS proposes to perform the work described herein on a Time and Material basis, with budgets between tasks being interchangeable. The estimated engineering fee including labor and expenses associated with the scope of work is not to exceed \$224,850 as presented in the Exhibit A, below.

### Exhibit A. Engineering Fee

Task Descriptions	Labor Hours	Labor Costs
Task 1 – WFO & CCC Project and Asset Management Assistance	1,140	\$ 186,216
Task 2 – Cross Connection Control Program	250	\$37,134
<b>Labor Total:</b>	1,390	\$ 223,350
<b>Expense Total:</b>		\$ 1,500
<b>Grand Total:</b>		\$ 224,850

## Acceptance

This Task Order shall become part of the Agreement upon execution by both parties.

Approved for City of Cocoa

Accepted for JACOBS Engineering Group

By \_\_\_\_\_

By



Francois Didier Menard, PE

Title \_\_\_\_\_

Title Vice President

Date \_\_\_\_\_

Date August 3, 2021

**City of Cocoa FY2022 Task Order 2022-18 WFO Division  
and CCC Support Labor Hour Breakdown - 06/21/2022**

TASK #	TASK NAME	Principal/Senior Reviewer/Consultant/Senior Project Manager	Mid-Level Professional Engineer/Scientist/Consultant/Pro ject Manager	Professional Engineer/Scientist/Consultant/Pro ject Manager	Junior Professional Engineer/Scientist/Consultant	Project Engineer/Scientist/Consultant	Office/Project Administration	Labor Hours	Labor Fee
		\$235.00	\$199.00	\$169.00	\$142.00	\$120.00	\$85.00		
<b>1</b>	<b>WFO &amp; CCC Project and Asset Management Assistance</b>								
	WFO Assistance	60	70	520	120	36	36	842	\$ 140,330
	CCC Assistance	10	48	96	60	60	24	298	\$ 45,886
	Total	70	118	616	180	96	60	1,140	\$ 186,216
<b>2</b>	<b>Cross Connection Control Program</b>								
		6	24	96	12	100	12	250	\$ 37,134
<b>Labor Total</b>								<b>1,390</b>	<b>\$ 223,350</b>
<b>Expenses</b>									<b>\$ 1,500</b>
<b>Subcontracts</b>									<b>\$ -</b>
<b>Task Order Total</b>									<b>\$ 224,850</b>

**EXHIBIT "A"****Jacobs Engineering Group Rate Schedule**

<b>Classification</b>	<b>Description</b>	<b>Rate</b>
Engineer 9	Principal	\$235
Engineer 8	Senior Reviewer/Consultant	\$235
Engineer 7	Senior Project Manager	\$235
Engineer 6	Senior Professional Engineer/Scientist/Consultant	\$218
Engineer 5	Mid-Level Professional Engineer/Scientist/Consultant/Project Manager	\$199
Engineer 4	Professional Engineer/Scientist/Consultant/Project Manager	\$169
Engineer 3	Junior Professional Engineer/Scientist/Consultant	\$142
Engineer 2	Project Engineer/Scientist/Consultant	\$120
Engineer 1	Junior Project Engineer/Scientist/Consultant	\$110
Engineer 0	Engineering Intern	\$95
Technician 5	Senior Construction Manager/Senior Designer	\$169
Technician 4	Construction Manager/Senior Technician	\$142
Technician 3	Senior Construction Inspector	\$120
Technician 2	Construction Inspector/Technician	\$110
Technician 1	Junior Construction Inspector/Junior Technician	\$85
Technician Aide	Technical Aide	\$80
Office	Office/Project Administration	\$85

## Notes:

1. Billing rates for the City of Cocoa are designated for the length of this Agreement from February 2020 through January 2023.
2. These rates do not include other direct expense cost. Reimbursable other direct expenses shall be billed in accordance with the terms of the contract.
3. Billing rate schedule is for time basis work order and the City will be billed based on actual hours by category designated for an individual employee.
4. Jacobs reserves the right to request rate modifications for any future extensions to this agreement. Rate modifications must be established and agreed upon by both parties.
5. All copies, reproduction, subconsultant work, materials or equipment purchased or other direct costs shall be pass-thru cost without any mark-up.
6. Travel is reimbursable at the IRS rate for employees and specialists outside the Orlando office only.