



RESOLUTION # 2014-65

RESOLUTION OF THE MAYOR AND CITY COMMISSION OF THE CITY OF WEST MIAMI AUTHORIZING THE CITY MANAGER TO ACCEPT THE PROPOSAL BY T.Y. LIN INTERNATIONAL, OUR CITY ENGINEERS IN THE AMOUNT OF \$200,000.00 UNDER THE TERMS AND CONDITIONS AS SET FORTH UNDER THE AGREEMENT BETWEEN THE STATE OF FLORIDA, DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE CITY OF WEST MIAMI UNDER PROJECT AS DESCRIBED AS LP13050, STATE GENERAL APPROPRIATIONS ACT 1668A FOR THE PURPOSE OF CONDUCTING THE MODELING OF THE CITY'S POTABLE WATER SYSTEM, PROVIDING FOR 100% OF SAID FUNDS TO PROCEED FROM A GRANT BY THE STATE OF FLORIDA, AT NO COST TO THE TAXPAYER, PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the Mayor and City Commission of the City of West Miami, Florida desire to accomplish the purpose outlined in the accompanying proposal; and

WHEREAS, the proposal for Potable Water System Master Plan Engineering Services received from T.Y. Lin International has been found to be acceptable; and

WHEREAS, the City Manager and Public Works Director have recommended the acceptance of the above referenced proposal.

NOW, THEREFORE, BE IT RESOLVED by the City Commission of the City of West Miami as follows:

SECTION 1. The aforementioned statements are true and correct and adopted as is fully stated herein.

SECTION 2. The City Commission hereby authorizes the City Manager to accept the proposal by TY Lin of two hundred thousand dollars (200,000.00) in connection with the preparation of the Citywide Potable Water System Master Plan (PWSMP) to be conducted by our City Engineers, comprised of a two-step approach as follows:

Task 1- Existing System Evaluation

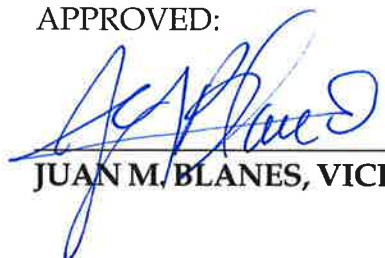
Task 2- Proposed Capital Improvement Plan

SECTION 3. The funds to further the purposes described in the funding request shall be paid from the Legislative appropriations line item 1668A General Appropriations Act State of Florida under executed Agreement between DEP and City of West Miami LP13050.

SECTION 4. This Resolution shall take effect immediately upon passage by the City Commission and signature of the Mayor.

PASSED AND ADOPTED this 15th day of October 2014.

APPROVED:



JUAN M. BLANES, VICE-MAYOR

ATTEST:



ANNERY GONZALEZ, CITY CLERK

APPROVED AS TO FORM AND SUFFICIENCY:



JOSE A. VILLALOBOS, CITY ATTORNEY

ROLL CALL VOTE:

MAYOR EDUARDO H. MUHIÑA
VICE-MAYOR JUAN M. BLANES
COMMISSIONER CANDIDA BLANCA
COMMISSIONER RHONDA A. RODRIGUEZ
COMMISSIONER LUCIANO L. SUAREZ

NOT PRESENT
Y
Y
Y
Y

October 14, 2014

Ms. Yolanda Aguilar
City Manager
City of West Miami
901 S.W. 62nd Avenue
West Miami, FL 33144

cc:
- MAYOR
- M. Leon, Finance DIR
- J. PENA, D.P.W.
- CITY MGR
✓ ORU - DEP Legislative Appropriations
FIVE
(JP)

**RE: City of West Miami Potable Water System Master Plan
City Engineer - Proposal for Engineering Services**

Dear Ms. Aguilar:

As the City Engineers, we appreciate the opportunity to submit this proposal to provide professional engineering services for the preparation of the Citywide Potable Water System Master Plan (PWSMP). The proposed Scope of Services is described in the attached Exhibit "A". Our proposed fee to perform these services is a lump sum amount of **\$200,000.00**.

We look forward to working with you on this project and thank you for the opportunity.

Please call if you have any questions.

Sincerely,



Francisco J. Alonso, P.E.
Project Manager

Enclosures

cc: Juan Pena
Mariano Valle, P.E.

EXHIBIT "A" - SCOPE OF WORK

1 PROJECT DESCRIPTION

The City of West Miami (City) has recently been awarded an FDEP grant to perform an analysis of the citywide potable water system and prepare a master-plan to identify deficiencies and a capital improvements plan to address future improvements.

The purpose and need of this project centers on the decaying potable water distribution system in the City. As a wholesale volume customer of the Miami-Dade Water and Sewer Department, the City is a recognized utility in direct charge of the operation and maintenance of the City's internal potable water distribution system.

The existing system is comprised largely of 6"-8" cast-iron mains constructed over 50 years ago with 2" service lines that serve customers primarily through rear service easements. In addition to being undersized to serve the existing and projected population of the City, the system suffers from documented persistent leakage, as well as intermittent failures and ruptures causing disruptions in service, damage to infrastructure, and potential contamination.

The City has estimated that the leakage experience is an average of 12 million gallons per month, which is not only a waster of our most precious resource, but also equates to a financial impact of over \$250k in losses per year. Up to this date, the City has only had enough resources to fund spot repairs either when pipes bursts, or following annual leakage investigations of certain areas of the City which identify underground leaks. As a small municipality in South Florida, the City has been especially hit hard by the housing crisis and is not in a financial position to comprehensively address these dire infrastructure needs on its own.

2 PROJECT SCOPE

The project that will be undertaken as part of this grant is a comprehensive master plan for the City of West Miami's potable water distribution system. The master plan will be comprised of a two step approach.

2.1 Task 1 – Existing System Evaluation:

The first phase (task 1) of the project will be a complete evaluation of the existing system. This includes taking an inventory of the existing pipe network, identifying valve locations, and creating a GIS atlas of the existing system. In addition a hydraulic model of the system will be developed to serve as a baseline for any future improvements. Field investigation will be required to confirm as-built information and measurements of system flows/pressures will be required to calibrate the model. Finally, documentation of pipe failures and leakage reports will be compiled and analyzed to highlight areas of the City with the highest needs.

Deliverables for Task 1:

- GIS Atlas of Existing System
- Hydraulic Model of Existing System
- Existing System Evaluation Report - including documentation of all system deficiencies

2.2 Task 2 – Proposed Capital Improvements Plan:

The second phase (Task 2) of the project will be the preparation and documentation of a capital improvements plan to address the system deficiencies. Based upon the findings of Task 1, priority will be assigned to different areas of the system to ensure that future funds are spent in the appropriate order and to have largest immediate impact on the current situation. This task will include an overall conceptual plan for improvements broken down by the prioritized sections, and maps of the conceptual improvements will be the main deliverable. A hydraulic model of the proposed system will also be provided based upon the model developed in Task 1. Task 2 will culminate in a conceptual comprehensive potable water capital improvement plan, with prioritized project phases that will serve as the basis for future design and construction projects as funds become available.

Deliverables for Task 2:

- GIS Atlas and Plan View of Conceptual System Improvements
- Hydraulic Model of Conceptual System Improvements
- Final Potable Water System Master Plan Report - including incorporation of the existing system evaluation report prepared in Task 1, documentation of all conceptual system improvements, prioritization of project areas with accompanying estimates of probable costs, and a City-wide capital improvement plan.

3 ITEMS NOT INCLUDED

The items below are not part of the scope of work in this proposal:

- 3.1** Environmental Phase Services
- 3.2** Construction Phase Services
- 3.3** Final Design Phase Services

4 INFORMATION TO BE PROVIDED BY CITY

- 4.1** City will provide as-built plans for existing City-owned facilities with elevations of underground utilities, if available.
- 4.2** City will allow access to the site.
- 4.3** City will provide the data recorded by the flow monitoring devices

5 ADDITIONAL SERVICES

Additional services not specifically described under “Scope of Work” will be performed upon written approval, and will be billed at the hourly rates as follows:

STAFF	HOURLY RATE
Project Manager	\$135.00
Professional Engineer	\$95.00
Engineer	\$80.00
Engineering Technician	\$65.00
Clerical	\$38.50

6 SCHEDULE OF WORK – TIME OF PERFORMANCE

TYLI | HJR shall submit the Deliverables and perform the Work as depicted in the table below:

SCHEDULE OF DELIVERABLES			
Task, Sub-task, or Activity ID #	Major Task, Sub-task, Activity, or Deliverable	Duration (weeks)	Delivery Date* (calendar days)
1a	GIS Atlas	2 Months	NTP + 60 days
1b	Hydraulic Model of Existing System	2 Months	NTP + 120 days
1c	Existing System Evaluation Report	2 Months	NTP + 180 days
2a	GIS Atlas of Conceptual System Imp.	2 Months	NTP + 240 days
2b	Hydraulic Model of Proposed Conceptual Imp.	2 Months	NTP + 300 days
2c	Final Potable Water System Master Plan Report	2 Months	NTP + 360 days

* An updated schedule, indicating actual delivery date, based on the above durations, will be provided to the City upon receipt of the NTP which is anticipated for October 15, 2014.

7 COMPENSATION

TYLI | HJR shall perform the Work detailed in this Proposal for a Total Lump Sum, Not to Exceed fee of **Two Hundred Thousand dollars and 00 cents (\$200,000.00)**. The City shall not be liable for any fee, cost, expense, or reimbursable expense or other compensation beyond this amount. The fee breakdown by task is depicted in the table below:

SUMMARY OF COMPENSATION*			
Task, Sub-task, or Activity ID#	Major Task Name and/or Activity Description	Fee Amount	Fee Basis
1	Existing System Evaluation		
1a	GIS Atlas	25,000.00	Lump Sum, Not to Exceed
1b	Hydraulic Model of Existing System	50,000.00	Lump Sum, Not to Exceed
1c	Existing System Evaluation Report	50,000.00	Lump Sum, Not to Exceed
	Task 1 Subtotal - Professional Services	\$125,000.00	Lump Sum, Not to Exceed
2	Proposed Capital Improvements Plan		
2a	GIS Atlas of Conceptual System Imp.	12,500.00	Lump Sum, Not to Exceed
2b	Hydraulic Model of Proposed Conceptual Imp.	31,250.00	Lump Sum, Not to Exceed
2c	Final Potable Water System Master Plan Report	31,250.00	Lump Sum, Not to Exceed
	Task 2 Subtotal - Professional Services	\$75,000.00	Lump Sum, Not to Exceed
	Total	\$200,000.00	Lump Sum, Not to Exceed