RESOLUTION NO. 46-2015

A RESOLUTION AUTHORIZING THE CITY MANAGER TO ACCEPT THE PROPOSAL SUBMITTED BY RA CONSULTANTS, LLC FOR PROFESSIONAL SERVICES TO UPDATE THE CITY'S GIS SYSTEM AND VEHICLE TRACKING SYSTEM FOR THE DEPARTMENT OF POLICE.

WHEREAS, the City desires to update the existing GIS System to operate the most recent version, develop the water and storm water layers, scan and geo-reference As-Built drawings, complete the digital mapping of the City's assets, and develop an AVL Fleet Tracking System.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF MONROE, STATE OF OHIO, THAT:

SECTION 1: The City Manager is hereby authorized to accept the proposal submitted by RA Consultants, LLC for professional services pursuant to the terms and conditions set forth on Exhibit "A" attached hereto and made a part hereof in an amount not to exceed $64,680.00.

SECTION 2: This measure shall take effect and be in full force from and after the earliest period allowed by law.

PASSED: September 22, 2015

ATTEST:

Clerk of Council

APPROVED:

Mayor

First Reading: September 8, 2015

This legislation was enacted in an open meeting pursuant to the terms and provisions of the Sunshine Law, Section 121.22 of the Ohio Revised Code.

"I, the undersigned Clerk of Council of the city of Monroe, Ohio, hereby certify the foregoing (ordinance or resolution) was published as required by Section 7.16 of the Charter of the City of Monroe.

Clerk of Council
City of Monroe, Ohio

Consultants, LLC

Exhibit "A" E Res No. 46-2015

August 31, 2015

Mr. Daniel J. Arthur, P.E.
Director of Public Works
City of Monroe, Ohio
1000 Holman Avenue
Monroe, Ohio 45050

RE: GIS Services

RA Consultants in response to the City of Monroe's request, proposes to provide GIS services for the Public Works, Police and Development Departments. The proposed scope of services below will lay out the milestones and benchmarks for the project.

Scope of Services:
Kickoff workshop
RA will conduct a project kickoff meeting with the City to review the scope of work, discuss lines of communication, schedule and additional information.

Task 1 - Public Works Department Mapping
RA will scan and geo-reference the provided City of Monroe As-Builts from the Large File Scans folder. The second step of completing the digital mapping the system will be accomplished by entering City assets (i.e. water lines, fire hydrants, valves, storm lines, etc.) into a geodatabase via heads-up digitizing using scanned record drawings as the source. We will field verify the true physical location of critical assets, such as valves and access manholes, when not represented accurately in the record drawings. Knowing the exact location of aboveground water assets is extremely important. RA Consultants, LLC will provide converted files in standard ESRI geodatabase and/or ArcSDE feature class format and georeferenced high quality TIFF images of each scanned document. We estimate this fee to be $38,960.

Task 2 - Police Department Fleet Tracking and GIS
RA Consultants will install and configure up to 14 StrataGIS Fleet™ AVL GPS enabled tracking devices that connect to the USB port in laptops located in the vehicles. The GPS devices will utilize the current data connection supplied with the laptop. The environment and data will be hosted on RA Consultants servers (for a duration of 36 months), or remote servers, with the ability to move the system to City of Monroe servers upon purchase of the GeoEvent processor. Based on the device type, only speed and location will be collected. Geofence's will be deployed along with text/email alerts when an event occurs by the AVL GPS device crossing the geofence. The AVL GPS in the vehicles will stream data to RA Consultant's servers via a dedicated UDP port and collected in a SQL database. The data will then be configured for City of Monroe consumption to the operational dashboard powered by ESRI's ArcGIS online platform. RA Consultants will work with the City in

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configuring the dashboard functionality to fit the needs of the organization. We estimate this fee to be $10,720.

Task 3 - Development Department Mapping
RA will assist the City by installing ArcGIS Server and SDE database upgrades to the newest 10.3 Esri software. Additionally, we will facilitate, setup and configure access when applicable, to Warren and Butler County GIS layers used by the City of Monroe (i.e. parcel data and street centerlines). Lastly, we will integrate approximately 25% of the Building Footprints and Street Edge of Pavement for the City. The first priority area to start with will be determined by the City of Monroe. The building footprints will be digitized from the Monroe Aerial within corporate limits at 1:1500 map scale in State Plane Ohio South Projection. The Edge of Pavement will be digitized at 1:1000 map scale in State Plane Ohio South Projection. Miscellaneous GIS support including ARCGIS On-line, database management and training. We estimate this fee to be $15,000.

Fee Estimate:

Item			Total
Task 1 – Public Works Department Mapping			**$38,960**
Task 2 – Police Department Fleet Tracking and GIS			**$10,720**
	Price per unit	Units	Extended
USB GPS (device/installed):	$120	14	$1,680
Dashboard Setup and Training:	$3,000	1	$3,000
Monthly Charge:	$10/vehicle	14 @ 36 Mos.	$5,040
Annual Maintenance Charge:	$500/year (yrs 2 and 3)	2	$1,000
Task 3: Development Department Mapping			**$15,000**
		Total Fee (Tasks 1-3):	**$64,680**

Schedule
We understand time is of the essence. We anticipate completing this work within four months from the notice to proceed. The Fleet Tracking will continue for 36 months following the dashboard setup.

If you have any questions or concerns regarding our proposal, please contact me at 513-289-7027.

Respectfully,

Christopher M. Weber, P.E.
Vice President
RA Consultants, LLC