

Request for Statement of Interest (SOI) Geographic Information Systems

The Kane County Division of Transportation is in need of Professional Services from a qualified Geographic Information Systems firm to provide; Support, Maintenance and application development service per the attached Preliminary Scope of Work.

The attached *Project Description/Preliminary Scope of Services* provides anticipated projects and skills that are necessary for this project.

The County anticipates initiating this work in January 2018 with contract duration of 1-year with an option to renew / extend the contract for an additional (2) year.

A Statement of Interest shall be submitted VIA KDOTQBS no later than 12:00 P.M. on August 21<sup>st</sup>, 2017, and should be addressed to Kurt Lebo, IT / GIS Chief of the Kane County Division of Transportation. The SOI shall be submitted via the KDOTQBS application in PDF format viewable with the latest version of Adobe Reader.

Statements of Interest received will be used by County staff to develop a short-list of three (3) firms. The County will then submit a Request for Proposal (RFP) and schedule interviews with the short-listed firms. On site interviews are not required. Phone call and or Go To meeting interviews will be required.

For more information regarding the SOI, such as content and format of these items, please reference the QBS document found at <u>http://www.co.kane.il.us/dot/consultant/selectionProcess.pdf</u>.

If the respondent plans to utilize a sub-consultant for any portion of this work please note this on the submitted Statement of Interest.

Short-listed firms will be posted at <u>www.co.kane.il.us/dot</u>. Click on the link labeled "Consultant Selection", then click on the link labeled "Consultant Selection Summary Table".

A Statement of Interest (SOI) received after the above noted deadline will not be considered.

# **2018 GIS professional Services Scope**

### 1) Enhancement of KDOT Permitting Viewer

- a) The KDOT permitting viewer application uses the ESRI JavaScript API. The application uses some specialty GIS Server Extensions (ESRI Highways and Streets)
- b) Continued enhancement and user of WAZE traffic data. WAZE has a robust API for traffic related data.
- c) Develop Dynamic Crash Analysis tools such as
  - i) Hot spot analysis based and search criteria.
  - ii) Intersection ratings based on traffic and reported accident volumes.
  - iii) Reporting via SSRS based on search and filtering queries.
- d) Review and make recommendation for software platform and versions including adding functionality to ArcGIS Enterprise / internal instance of Portal. Current Technology Platform Follows. This is an Internal Server environment consisting of (2) Servers. We push and pull data to / from, AGOL.
  - 1. ArcGIS GIS Server 10.5.1 (Roads and Highways Server and Desktop extension)
  - 2. SQL 2015, with SQL native spatial types and SSRS reporting
  - 3. Version 3.17 ESRI Javascript API
  - 4. ESRI Configurable Map Viewer (CMV) version v1.0.0
  - 5. Web Server / Arc GIS Server 10.5.1 Windows Server 2012 R2
  - 6. Database Server Windows Server 2012 R2

# 2) GIS Support /integration for Permitting Software and Asset Management Software.

a) It is anticipated KDOT will be implementing a new permitting system in year 2018 and possibly upgrading its existing Asset Management Software. The vendor has not been selected, but support will be required for GIS Integration within the product. It is anticipated that each of these products will consume ESRI feature services.

#### 3) ESRI Roads and Highways Extension

- a) Support for proper means and method of data collection and population of the ESRI Roads and Highways data model.
- b) Management and support for Geometry updates and events. Updates required 10 15 times annually.

#### 4) Utility database Development

i) History – Currently there are two staff member from the KDOT Permitting Department that enters utility locations including gas, electric, water, sewer,

cable / fiber. The data is all stored in GIS Format. There is now a desire to allow multiple permitting staff to edit to share live edits with non- permitting staff. Ideally both data collections and edits will be accomplished using AGOL as the data source.

- ii) Proposed changes
  - (1) Develop an enterprise data base and or adopt ESRI utility model and or recommended model
  - (2) Develop training manual for field data collection of utility data. Field data collection will be completed using Leica Zeno 20.
- iii) Review existing data and reorganize populate new database.

## 5) Technical Support as needed

- a) ESRI Software update install and compatibility testing.
- b) Python scripts
- c) .Net Development
  - i) Waze historical archiving
- d) AGOL support
- e) SQL server / Database
- f) General troubleshooting

# **Contact Information**

Any questions regarding the specific project should be directed to Kurt D. Lebo at 630-208-3137 or <u>LeboKurt@co.kane.il.us</u>. Any question regarding the QBS or Consulting Selection Process should be directed to Steve Coffinbargar 630-584-1170 or via email at <u>CoffinbargarSteve@co.kane.il.us</u>