

Request for Statement of Interest (SOI) Traffic System Operation Management

The Kane County Division of Transportation is in need of professional services from a qualified transportation engineering firm to provide assistance in the area of Traffic Systems Operation Management. These services are required to assist our Traffic Engineering staff in the management and operations of the County's Traffic Signal/ITS/Street Lighting Systems.

The attached *Preliminary Scope of Services* provides in detail anticipated items that are necessary as part of the services for Traffic Systems Operation Management.

At this time the County anticipates services available in January of 2013 with duration of approximately twenty-four (24) months.

The Statement of Interest shall be submitted **VIA EMAIL** no later than **4:00 P.M. on September 19, 2012** and should be addressed to

Thomas F. Szabo, TOPS, TSOS
Traffic Section Manager

Mr. Szabo's email address is: szabotom@co.kane.il.us.

Statements of Interest received will be used by County engineering 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.

For more information regarding the SOI, such as content and format of these items, please reference our QBS document found at:

<http://www.co.kane.il.us/dot/consultant/selectionProcess.pdf>

The SOI shall be submitted in PDF format viewable with the latest version of Adobe reader. The County will provide you with an e-mail receipt/response verifying that your submittal was received. If you do not receive this verification please contact Mr. Thomas Szabo, Traffic Section Manager at (630) 208-3139.

If you plan to enter into a joint venture with another firm for this project please note this on your Statement of Interest, including the name of the firm you are entering into a joint venture with.

Short-listed firms will be posted on our website at:

<http://www.co.kane.il.us/dot/SOISummary.aspx>

A Statement of Interest (SOI) received after the above noted deadline will not be used as part of our consultant selection process.

PRELIMINARY SCOPE OF SERVICES

The consultant will provide administration assistance to County Traffic Engineering staff for the management and operational oversight of the County's traffic operations infrastructure, which includes approximately 140 traffic signal and flashing beacon locations, 900 street light locations as well as the County's growing centrally controlled ATMS (Advance Traffic Management System) network. These services will include but are not limited to the following responsibilities and requirements:

1. System Monitoring and Reporting

- The remote monitoring of all Kane County maintained traffic signals and traffic signal systems, which can be communicated via internet through VPN (Virtual Personal Network) access for the purpose of identifying specific operational issues/deficiencies by performing the following analyses.
 - Critical Faults/Alarms for the traffic signal controllers, MMU (Malfunction Management Units) and UPS (Uninterruptible Power Supply) systems (daily/real time)
 - Detector Diagnostics (weekly)
 - CRC (Cyclical Redundancy Check) (weekly)
 - Video Monitoring
- The remote monitoring of all Kane County maintained ATMS communications infrastructure.
- The Consultant shall possess updated versions of both Aries and Marc NX traffic management software and be proficient in their use.
- The Consultant shall be proficient in the use of transportation management software application.
 - Siemens *TACTICS*
 - TransCore *TransSuite, TCS (Traffic Control Software)* (desirable)
- The Consultant shall investigate and develop an appropriate course of action to resolve any and all operational issues/deficiencies that are identified, which may include coordination with the Electrical Maintenance Contractor (EMC) or other contractors that might have temporary maintenance responsibilities of County facilities. The Consultant shall provide any guidance and oversight necessary to the EMC or other contractor in order to assure the issue has been resolved.
- Provide weekly condition reports to KDOT Traffic staff, the EMC and other contractors that might have temporary maintenance responsibilities of County facilities.
- Maintain and update as necessary a *Synchro* traffic model of the County's traffic signal network.

2. Operational Trouble Shooting and Public Complaints

- Assist KDOT Traffic staff in responding to public complaints regarding traffic signal operation.
- Provide analysis and recommendations as related to issues with traffic signal timing, coordination and overall traffic operations as requested by KDOT Traffic staff.
- Analyze and adjust existing timing plans and other system programming as directed by the KDOT Traffic staff.

- Maintain “tracking” database of all submitted complaints and their status. Provide weekly status reports to KDOT Traffic staff for all open complaints.
- The Consultant shall possess the latest version of *Synchro* traffic analysis software and be proficient in its use.
- The Consultant shall possess proficiency in programming the following traffic signal controllers:
 - Siemens M52
 - Econolite ASC/3
 - Peek 1000

3. Electrical Maintenance Contractor (EMC) Supervision

In concert with the KDOT Traffic staff, provide direct general contract administration of the County’s EMC as follows.

- Coordination and administration of the EMC and any other designated maintenance agent on specific issues related to traffic signal/roadway lighting/ITS equipment maintenance, repair, modifications, scheduling and general trouble shooting.
- Maintenance of a “tracking” database of all ongoing work orders (routine and non routine) and their status. Provide weekly status reports to KDOT Traffic staff for all open work orders. The Consultant should also provide QC (Quality Assurance) for the EMC meeting required response times per EMC contract.
- Field inspection of all work performed by the EMC.
- Field review of temporary traffic control for all work performed by the EMC.
- Review of all invoices submitted by the EMC for submittal to KDOT Traffic staff for approval and final processing.
- Provide oversight for the maintenance of inventory for County maintained traffic system and roadway lighting infrastructure.
- Coordinate and attend a monthly coordination meeting between the County and the EMC and other interested parties.
- Attend various other meeting on request such as pre-construction conferences, staff meetings, etc.

4. Engineering Review

- Review prepared signal timing and optimization plans submitted by others and provide written comments the KDOT Traffic staff.
- Review traffic signal/roadway lighting/ITS plans and specifications prepared by others and provide written comments the KDOT Traffic staff.
- Review manufactures' material submittal (“catalog cuts”) and provide written comments the KDOT Traffic staff.
- Periodic review and revisions of the County’s Traffic Signal Specifications and other traffic related standards and guidelines.
- Review and/or preparation of all necessary contract/bidding documents for the County’s EMC contract.

5. Field Inspections

- Coordinate and provide detailed (intermediate/final) inspection for new/modernized traffic signal/roadway lighting/ITS equipment at maintenance transfers and “turn-ons”.
- Provide detailed inspection for temporary traffic signal/roadway lighting/ITS equipment “turn-ons” during construction projects.

6. Future Arterial Operations Center Support

- Coordinate and provide possible staff support for future Arterial Operations Center scheduled to open in the summer of 2013.

QUALIFICATIONS

Interested consultants should possess competency in the following areas of expertise:

- General traffic engineering in accordance with MUTCD, ITE, IMSA, FHWA and other nationally recognized standards pertaining to the requested services.
- Project manager that possesses certification as a Professional Traffic Operations Engineer (PTOE) from the Transportation Professional Certification Board, Inc.
- Project manager and or representatives that possess IMSA certification in
 - Traffic Signals (Level II as a min. and Level III, Field desirable)
 - Traffic Signal Inspection
 - Fiber Optics in ITS (Level I as a min. and Level II Field desirable)
 - Roadway Lighting (Level I as a min. and Level II Field desirable)
- Traffic signal timing and programming
- Oversight/project management of traffic signal/street lighting/ITS infrastructure maintenance
- Traffic Signal and Street Lighting design (per IDOT Region/District One), and Kane County standards)

PROJECT DURATION

Contract duration shall begin upon the receipt of the notice to proceed from the County to the Consultant, which is anticipated to be in late December 2012 and continue through December of 2014 for an approximate duration of 24 months.