



Request for Proposals

RFP # 21-9-4

2021 Pavement Management Assessment Program

Deadline to submit proposals:

Thursday, October 21, 2021 10:00 am CST

Please submit proposals to the below address.

Village of Addison

Attn: Anna Hendrey, Purchasing Agent

1 Friendship Plaza

Addison, IL 60101

(630) 693-7507

VILLAGE OF ADDISON
RFP # 21-9-4
2021 PAVEMENT MANAGEMENT ASSESSMENT PROGRAM

INTENT:

The Village of Addison is seeking proposals from qualified firms to collect comprehensive road and pavement distress data for approximately 100 centerline miles of Village maintained roadways. The contractor will be expected to process the collected data and provide Pavement Condition Index (PCI) ratings, make data compatible with ESRI ArcGIS Software, and integrate collected data into the Village's Lucity / Central Square Asset Management program. The selected contractor will also be expected to develop several pavement management plan scenarios to determine the most sustainable and cost-effective solutions to effectively preserve, repair, and replace the Village's roadway system based upon current and predicted roadway conditions and Village funding limitations.

The Village of Addison is also seeking an add-on proposal for a LiDAR survey with data extraction to identify curb and gutter types and sizes, driveway widths, pavement widths, parkway widths, sidewalk widths, as well as ADA information.

ESTIMATED QUANTITY:

Approximately 100 centerline miles of Village maintained roadways

SCOPE OF WORK:

The scope of services shall include the provision of all required labor, materials, equipment, and expertise required for the collection, processing, creation of the Village maintained pavement condition inventory, data and reporting integration into the Village of Addison's GIS and Lucity/Central Square Asset Management program, and development of suggested pavement management plans.

The selected firm will be expected to provide accurate data output that will allow the Village to determine existing pavement conditions, predict future pavement conditions, predict financial needs, and identify and prioritize pavement preservation projects.

PAVEMENT CONDITION DATA COLLECTION

The contractor shall provide a comprehensive survey of all paved Village owned roadways, obtaining and processing pavement condition data sufficient to calculate the National Performance Management Measures for Assessing Pavement Condition, 23 CFR 490 Subpart C to develop a uniform Pavement Condition Index (PCI) as well as provide an international roughness index (IRI), rutting, cracking, and faulting for each segment of roadway for both asphalt and concrete pavements. The method of data collection shall be efficient and minimally intrusive to the public. The contracting firm shall specify the technology and methodology of collecting data and provide proof of its past implementation and success.

DATA COLLECTION METHODOLOGY AND QUALITY CONTROL

The contractor will develop and execute an appropriate methodology sufficient to accomplish this task in the most efficient and economical means possible to include quality control of data as a means to ensure data accuracy. Before data collection begins, a copy of the methodology that will be used to collect pavement condition data shall be submitted to the Village of Addison for review and acceptance, including a data quality management plan. The contractor shall describe the appropriate quality control procedures for the project and certify that the data collection equipment is properly calibrated and is in working condition before collecting data. The contractor

shall also set a schedule to validate that the equipment is still meeting certification targets on a set of control segments.

Data collection shall be conducted during optimal conditions to provide high quality data. Data collection shall not occur in rain, snow, fog, or in any condition that will adversely affect data quality. The pavements shall not be wet/damp or have snow/ice or standing water on them at the time of collection.

DATA DELIVERY AND REPORT

The contractor shall compile and deliver the data to the Village of Addison in digital formats compatible with existing systems. The data shall be easily accessible and in a format compatible with the Village's ESRI GIS database that meets the Village GIS Administrator's criteria. All processed pavement condition data shall also be validated, loaded and integrated into the Village's Lucity / Central Square Asset Management program.

The contractor shall prepare and submit a written project report summarizing the work performed, dates of collection, methodology, and results. The contractor shall also provide pavement condition data in MS Excel summary tables, as well as color-coded map(s) clearly defining pavement conditions. This to include a map of the Village that shows the pavement conditions for each street.

PAVEMENT MANAGEMENT PROGRAM RECCOMENDATION OPTIONS

The successful contractor shall develop pavement management plans describing the current condition of pavement, the types of pavement preservation methods suggested, cost evaluation to meet different pavement conditions, and recommended maintenance and capital expenditure plans based on the selected pavement condition and current budget funding. The pavement management plan will include summary tables, charts, graphics, and maps depicting current pavement condition and forecasted pavement conditions under different scenarios.

The contracting firm is expected to evaluate the impact that the Village's current roadway funding will have on the roadway network's pavement conditions over the next five to ten years. The contractor will also determine the optimum budgets and strategies to maintain the current average network conditions as well as to steadily improve these conditions using proven preservation, maintenance and reconstruction options that best fit individual roadway candidates.

The contractor shall include at a minimum four (4) scenarios in the proposed pavement management plans that include a variety of pavement preservation and maintenance activities such as crack sealing, slurry seals, overlays, reconstruction, etc., as well as typical concrete pavement preservation and maintenance activities as applicable.

1. Projected outlook of roadway conditions over the next 10 years as currently managed under the Village's 20-year replacement plan program utilizing current funding levels.
2. Moving 5 year project plan utilizing a budget analysis of current funding levels.
3. Project plan to maintain current overall averaged PCI assessment over the next 5 years at current budgeting.
4. Project plan to invest sufficient funds to meet potential performance targets over the next 5 years regardless of current funding.

OPTIONAL PROPOSAL FOR A LIDAR SURVEY

Submit an add-on proposal for a LiDAR survey of the Village of Addison maintained roadways and right-of-ways. Costs should be separated for each optional data extraction to identify curb and gutter types and sizes, driveway widths, pavement widths, parkway widths, sidewalk widths, as well as ADA information.

SCHEDULE

This project shall be completed within six (6) months of execution of contract.

SUBMITTALS

The following format shall be utilized in the assembly of the proposal document.

- 1) Cover Letter
- 2) Statement of Project Understanding
 - A Statement of Project Understanding should include a brief statement of the firm's understanding of the scope of the work to be performed.
- 3) Statement of Qualifications
 - Submit a statement of qualifications that addresses as many of the tasks listed in the Scope of Work above as deemed feasible by the responding firm within the proposed timeframe. Qualifications statements should include all of the information that prospective firms wish to convey to convince the Village that the selection criteria have been met and that the firm is well qualified to complete the work.
 - Clearly describe the unique approach, methodologies, knowledge and capability to be employed in the performance of the Scope of Work.
 - Present innovative concepts, approaches, and methodologies, if any, not discussed in the Scope of Work for consideration.
 - Identify staff members who would be assigned to act for the firm in key management and field positions providing the services described in Scope of Work, and the functions to be performed by each.
 - Include background and experience for each staff member provided to include years of experience, type of experience and relevant projects on which they have worked. If sub-consultants will be used, include this information for each sub-consultant.
- 4) Descriptions of Projects of Similar Size and Scope
 - The firm's general experience, ability, and history of performance of projects similar to the one under consideration. Describe any relevant specialized knowledge in pavement management planning.
- 5) Project Schedule
 - A general project schedule and estimated completion date with the understanding that the Village is looking to have all activities and deliverables completed within six (6) months of execution of the contract.
- 6) Fee Schedule
 - A fee schedule of services and expected final contract fees based on the firm's understanding of the project scope, to include add-on LiDAR assessment as separate line item

SELECTION PROCESS

The Village of Addison seeks to select a proposal submission for pavement data collection and management based upon the following criteria:

- Responsiveness of the proposal to the scope of work, as demonstrated by providing thorough responses to the scope and project requirements.
- Past dealings with the Village of Addison and familiarity with the project area.
- Demonstrated experience of the firm in the field of pavement condition data collection and processing, pavement management plan development, experience working with ESRI and Lucity software systems, and familiarity with combining pavement condition data from multiple sources and technical competency.
- The contractor(s) experience and approach to developing a data quality management plan.
- The contractor(s) capability to collect pavement condition data and produce municipal pavement management plans in a timely manner.
- The quality and relevance of project references for projects of similar scope.

PROPOSAL SUBMITTAL AND QUESTION INSTRUCTIONS:

All proposals must be submitted by Thursday, October 21, 2021 10:00am CST. Proposals submitted after the deadline will not be considered.

Proposals shall be clearly marked on the outside of the envelope **RFP 21-9-4** and submitted to:

Village of Addison
Attn: Purchasing, Anna Hendrey
1 Friendship Plaza
Addison, IL 60101

Questions concerning the proposal may be directed to:

Tim Tokarz
Superintendent of Street, Electrical & Forestry
ttokarz@addison-il.org