

**CONSULTING SERVICES FOR PAVEMENT CONDITION ASSESSMENT
REQUEST FOR PROPOSALS – SJC PW-RFP-26-04
EXHIBIT A - PRELIMINARY SCOPE OF WORK**

The Scope of Work may include, but will not be limited to, the following items listed below. The consultant may revise and/or expand on this scope in accordance with their expertise. The County will provide a copy of the most recent pavement management database to the selected consultant for reference. This scope of work should not utilize the previous evaluation data as a basis.

Task 1. Project Management

This task shall include the kick-off meeting, progress meetings, and providing a schedule of tasks. Includes monthly invoicing and project management tasks.

Project Kick-Off Meeting: A Project “Kick-off” Meeting will be held following the Notice to Proceed. This meeting includes representatives from the County, Consultant, and any sub-consultants. The primary meeting objectives will be to present the project, its goals, review the project scope and action item list, explain the project schedule, identify key project issues, and facilitate a general exchange of views and ideas regarding the completion of the project.

Project Schedule: The schedule will be prepared in Gantt chart format and identify the beginning and ending dates and duration of each task.

Deliverables:

- Meeting Agenda
- Project Schedule

Task 2. Field Inspection

The selected consultant shall physically evaluate the pavement condition of the designated County roads, which are 701 miles of roadway. As an optional task, up to 662 miles of recently sealed roads may be added to the scope depending on budget. Method for data collection shall be an automated pavement condition survey which covers the full lane width. Proposers should include their data collection methodologies and any options for collection of videos or photographs, which the County will evaluate as it selects its consultant. The selected consultant shall provide collected data in an ArcGIS shapefile.

Consultant shall conduct field surveys on identified paved roads within the County network. Pavement condition surveys shall be performed to identify pavement distress for the purposes of determining a Pavement Condition Index (PCI) score in accordance with ASTM Standard D 6433 utilizing the modified seven distress method by Metropolitan Transportation Commission.

Seven pavement distresses of flexible pavement to be inspected shall include, but are not limited to:

1. Alligator cracking,
2. Block cracking,
3. Distortions,
4. Longitudinal and transverse cracking,
5. Patching and utility cuts,
6. Rutting and depressions,
7. Weathering and raveling

Consultant shall prepare PCI score for each segment. The roadway segments shall be measured for roughness and have a score provided pursuant to the International Roughness Index (IRI).

Deliverables:

- GIS shape files of PCI and IRI score
- Two spreadsheets of the data are to be provided in CSV format, one formatted for upload to Cartegraph and one for upload to Street Saver
- Photos and/or videos

Task 3. Prioritized Project List & Five-Year Pavement Management Plans (optional task)

The consultant shall review the collected data and make recommendations for repair projects over a five-year period that will maximize the life and condition of County roads within a provided annual budget. The consultant shall work with the County to prioritize roads, with consideration given to higher classification roads and pavement conditions that may adversely affect public safety. The County acknowledges that some road segments may not need to be addressed during the five-year period. For each road segment with a PCI score of 65 or below, the selected consultant shall identify feasible rehabilitation alternatives and the estimated associated costs.

Deliverables:

- Prioritized Project List per fiscal year within provided budget
- Recommended rehabilitation alternatives

Task 4. Final Report

The consultant shall prepare a final report containing a description of the methodology used in the analysis, method used for PCI calculations, the PCI output listing, and maps of the PCI score with colors assigned to score ranges.

If the five-year plan is produced, the consultant shall include a description of the methodology used to produce the recommendations, a listing of suggested projects per fiscal year, and County maps that show the recommended pavement management over the five-year period.

The reports and maps shall include both pdf and original electronic version, including shapefiles created. No hard copies are required.

Deliverables:

- Final Report
- Shape files for maps