



US INFRASTRUCTURE OF CAROLINA, INC.

CONSULTING ENGINEERS

October 14, 2013

Mr. John Poteat
Utilities Director
Town of Pittsboro
PO Box 759
Pittsboro, North Carolina 27312

**Re: Proposal for Professional Services
Pavement Condition Survey (Town of Pittsboro)**

Dear Mr. Poteat:

US Infrastructure of Carolina, Inc. (USI) is pleased to submit this fee proposal to perform a GIS linked pavement condition rating survey for the Town of Pittsboro. This is in response to your October 11, 2013 telephone conversation with Jocelyn Moon. We look forward to working with the Town in managing the investment Pittsboro has in its street system.

Scope of Work (GIS-Linked Survey):

USI will perform a pavement condition survey which is linked to the Town's GIS centerline database of all asphalt pavement street segments within the Town of Pittsboro owned or maintained by the Town (approximately 25 centerline miles). This will involve riding each segment and observing and quantifying pavement distresses in addition to collection of physical inventory data. The project deliverables are as follows:

- A Pavement Condition Rating (PCR) will be calculated by the pavement management software for each segment based on field observation of the following distresses: alligator cracking, block cracking, reflective cracking, rutting, raveling, bleeding, ride quality, and patching. This data will be recorded on the street centerline segment data provided by Pittsboro with any recent/needed additions to be added by USI.
- The field survey will identify errors in the Centerline database or unusual field conditions (e.g. drainage problems) in a comment field in the database product provided to the Town.
- In addition to observing surface pavement distresses, during the field survey USI will quantify the following attributes for each street segment: existing curb and gutter per side (right and left), presence of sidewalk (if any) per side, and asphalt height above gutter. These attributes do not affect the PCR calculation, but serve to provide meaningful information to the Town.
- USI will compile and summarize condition-rating data from the collected field data reflecting the Town maintained street segments. USI will also provide three (3) copies of a report that will identify system pavement condition by major distress and street

classification (high or low volume). The report will provide Summary Tables containing recommended maintenance activities and estimated costs by activity based on unit maintenance costs to be supplied by the Town.

- USI will provide one copy of a listing of street segments sorted by PCR order in addition to a report of segments by alphabetical street listing.
- USI will also provide our USI-TPA Microsoft Access computer application which will allow the Town to sort the master database by PCR, street name, and to generate an estimate of maintenance costs for a specific range of PCRs. The application will also allow the Town to query the database for presence of curb and gutter, sidewalk, and asphalt height above gutter. This reporting tool will also allow the Town to generate priority lists for high and low volume streets, crack sealing, and patching, in addition to lists for resurfacing, skin patching, and joint repair.
- USI will also provide the Town with a digital copy of the final GIS shape file in ESRI compatible format along with a DBF format file containing completed pavement condition inventory data, PCRs, recommended maintenance activities and cost information for your records, along with an electronic copy of the written report and any graphs or exhibits.

This proposal makes the following assumptions:

- We estimate that the field data collection will take approximately 2 to 3 work days depending on weather conditions.
- USI will supply Pittsboro with our repair matrix so the Town can select the maintenance activities it prefers for the various pavement distresses and severity levels.
- Pittsboro will also need to provide USI with current unit maintenance costs for use in our calculations.
- Pittsboro will supply USI with a current GIS centerline database (including street centerline, parcel data, Town limits, and street ownership [i.e. Town or State]) for the GIS-linked survey, a listing of new street segments added since last survey, a listing of the high and low volume streets, and a copy of the most recent Powell Bill map.
- Pittsboro maintains approximately 25 miles of streets within its corporate limits. This proposal does not include any evaluation of NCDOT streets within the Town limits.

Compensation:

Our fee for providing the requested Pavement Condition Survey will vary depending on whether Pittsboro or USI provides a vehicle and driver for the field data collection.

If Pittsboro provides a vehicle and driver, USI will perform the services described for a GIS-Linked survey for a lump sum fee of **\$10,500.00**.

Lump Sum Fee (Pittsboro provides vehicle and driver) = **\$10,500.00**



If USI provides a vehicle and driver, USI will perform the services described for a GIS-Linked survey for a lump sum fee of **\$11,300.00**.

Lump Sum Fee (USI provides vehicle and driver) = **\$11,300.00**

Please let us know your preference as we move forward. USI will invoice the Town monthly for work performed, with final payment due upon the Town's acceptance of the completed project.

Schedule:

USI estimates it will be able to begin this work two weeks following a notice to proceed and estimates it will take approximately five to six weeks to complete the project after beginning the field data collection.

Thank you for the opportunity to work with the Town of Pittsboro. If you have any questions or need additional information, please contact me at (336) 272-3402.

Sincerely,

US Infrastructure of Carolina, Inc.

A handwritten signature in blue ink, appearing to read "John D. Fersner, III", with a stylized flourish at the end.

John D. Fersner, III, P.E.
Project Manager

