



1160 Dairy Ashford, Suite 500, Houston, Texas 77079
T 281 589 7257 W rpsgroup.com/usa

June 18, 2018

Mr. James J. Stokes
City Manager, City of Deer Park
710 E. San Augustine
Deer Park, Texas 77536

Re: Proposal for Historic Bridge Removal on Battleground Golf Course in Deer Park

Dear Mr. Stokes:

RPS Infrastructure, Inc. is pleased to present this proposal to provide assistance to remove the Historic Bridge on Battleground Golf Course in Deer Park. In 2012 Klotz Associates, Inc. developed bridge retrofit plans that replaced the deck and rail of the Historic Bridge. The remaining truss members of the original bridge are now fully supported by the bridge constructed in 2012. Since the new construction the original truss members have continued to deteriorate and now require significant structural repair to maintain the structure as outlined in the City's Acquisition Agreement with Coryell County.

Our understandings of the City of Deer Park's goals are listed below:

1. Take photographic inventory of each truss member through a series of site visits that will be limited to no more than three (3).
2. Determine the level of deterioration of each truss member and categorize as:
 - a. Minor – No repair required
 - b. Moderate – Member requires repair
 - c. Severe – Member requires replacement
3. Provide construction procedures and materials that will abide by the "in-kind" repair methods and maintain the original appearance of the structure as close as reasonably possible.
4. Prepare and submit construction plans, specifications, and cost estimate to the City.
5. Assist the City in pre-bid phase and provide construction phase services.

SCOPE OF BASIC SERVICES

The proposed engineering services to assist the City of Deer Park to repair the Historic Bridge truss members is a lump sum fee of \$42,000, and can be completed within ninety (90) days after notice to proceed.



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Project Coordination & Management

RPS Infrastructure, Inc. will meet with the City of Deer Park to initiate the project, presumably at a Public Hearing. We will be available to meet face-to-face with the City or via phone conference throughout the duration of the project (as needed) to provide status reports and clarification. The Project Manager will be the primary point of contact for the project and will manage the scope, schedule, budget, progress reporting and invoicing throughout.

Research, Data Collection & Analysis

RPS Infrastructure, Inc. will travel to the historic bridge on Battleground Golf Course and take photographic inventory of each truss member. The number of site visits will be limited to no more than three (3).

Each truss member will be examined by a structural engineer and determine the level of deterioration. The level of deterioration will be as follows:

- Minor – No repair required
- Moderate – Member requires repair
- Severe – Member requires replacement

All truss members will be tabulated based on the determined level of deterioration with associated photographs. A structural engineer will then determine an appropriate in-kind repair for each member to restore the members as closely as possible to their original condition.

PS&E Documents

RPS Infrastructure, Inc. will prepare and submit construction plans, specifications, and cost estimate to the City for the proposed repair of the Pratt truss members. Upon approval RPS will prepare and submit bid documents for construction letting.

A structural engineer will oversee the development of construction plans to ensure the in-kind repair methods will be used when detailing construction methods and materials for each truss member. Each truss member will be highlighted and have an associated repair option. Truss members that do not require repair will not be highlighted within the construction plans to reduce complexity.

Quality Control & Quality Assurance

As part of our quality control procedures, we will review reports and estimates for clarity and completeness and ensure that appropriate quality control procedures were followed. We have the benefit of being able to provide oversight and review as mentioned above by experienced engineers.



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Expenses

The fee for Basic Services includes all expenses incurred during the performance of the above scope and include travel expenses, reproduction of the report for review and final submittals, and rental or purchase of OSHA required inspection safety equipment.

FEE PROPOSAL

The engineering fee to complete these tasks will be on a lump sum basis and is based on the following breakdown:

Project Coordination & Management	\$2,000
Research, Data Collection & Analysis	\$10,000
PS&E Documents	\$27,500
Quality Control & Quality Assurance	\$2,000
Project Expenses	\$500
Grand Total:	<u>\$42,000</u>

BID & CONSTRUCTION PHASE SERVICES

Upon final submittal of the PS&E documents the engineer will assist the City of Deer Park through the bid and construction of the project. All work associated with construction phase services will be performed in a timely manner such that the bidding and construction phase schedule is not impacted. All Bid and Construction Phase services will be paid on a time and material basis, in an amount Not-To-Exceed \$15,000.

Pre-Bid Phase

RPS Infrastructure, Inc. will provide services to assist the City during the pre-bid phase that include Addendums to bid documents, providing answers to contractor questions, and attending a mandatory pre-bid meeting. Additionally, we will attend and participate in a pre-construction meeting and distribute meeting minutes.



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General Construction Management

As part of construction phase services, we will:

- Periodically observe the construction to verify work complies with contract, drawings and specifications
- Check compliance with approved submittals
- Review and count materials as required
- Inform the City of Deer Park of any major construction issues and facilitate resolution

Request for Information (RFI's)

RPS Infrastructure, Inc. will provide and submit responses to RFI's, and provide drawing revisions as necessary.

As-Built

We recommend the contractor keep As-Built drawings throughout construction that will be submitted to the Texas Historic Committee as part of the bridge's historic inventory. We will review the contractor's plan set at the project's completion.

ADDITIONAL SERVICES

Additional services, if needed, will be considered outside of the scope of the estimated fee. RPS Infrastructure, Inc. will perform additional services based on payroll costs of salaries and wages times a factor for general overhead and profit of 2.5. Reimbursable expenses will be charged at Engineer's cost plus 15%. The Additional Services may include additional inspection, study, or analysis not included in Basic Services scope.

If you have any questions, please contact Jonathan Griffin, P.E. at (281) 589-7257.

Sincerely,

A handwritten signature in black ink, appearing to read 'J. Griffin'.

Jonathan Griffin, PE
Project Manager

JG:kn