
MEMORANDUM

TO: STEVE GIESBRECHT, BOROUGH MANAGER
FROM: KARL HAGERMAN, UTILITY DIRECTOR *KH*
SUBJECT: PUMP STATION 4 FORCE MAIN DESIGN – AWARD RECOMMENDATION
DATE: 10/2/2019
CC: DEBBIE THOMPSON, BOROUGH CLERK
FILE

The wastewater utility recently solicited proposals for design services for the Pump Station 4 Force Main. The force main was found to be corroded and leaking a few years ago and although the leak was repaired at the time the department needed to work on a replacement of this pipe before future failures occurred. ADEC has provided a loan for the work to proceed and the Assembly has accepted this loan, in the amount of \$360,000.

Two proposals were received in response to the Borough's RFP. PND Engineers out of Juneau and Taku Engineering out of Anchorage. The evaluation committee scored the proposals based on the criteria detailed in the RFP and unanimously agreed that PND Engineers had the best combination of regional experience, engineering expertise, staff knowledge and an acceptable schedule for completion of the work at the lowest cost.

The area where the project will occur is on North Nordic Drive and Sandy Beach Road at Hungry Point. As traditional replacement methods of trenching, through asphalt in this case, and pipe installation carry a high cost, the department wishes to have the Engineer evaluate trenchless repair/rehabilitation methods in comparison to open cut trenching. Many different trenchless technologies exist that could reduce costs, reduce construction time, provide a long service life and take advantage of the existing ductile iron main as a corridor for improvement without the need to dig up the entire pipeline. Slip lining of pipelines and cured-in-place pipe are two technologies that may help reduce costs for this project. This evaluation is accomplished by way of a Design Study completed by the chosen engineering team in which they evaluate the logistics, costs, constructability, longevity and overall feasibility of each construction option to identify which would be the best fit and use of ratepayer dollars.

The utility recommends that a professional services contract be awarded to PND Engineers of Juneau, Alaska for a Phase 1 (Design Study) cost not-to-exceed \$28,045. Following the completion of the design study, the utility will weigh the options presented and make a selection for the final design direction for the project. Future amendments to the initial professional services contract will then be sought to retain PND Engineers for the next steps toward bid ready documents, including surveying, permitting, plans, specifications and cost estimates.

The funding for this work will come from the capital project fund 739, which has a balance of \$360,000 from the low interest loan offered by ADEC.

Please let me know if there are any questions. Thank you.