

Town of Weymouth
Massachusetts

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TOWN OF WEYMOUTH
TOWN CLERK'S OFFICE

Robert L. Hedlund
Mayor

75 Middle Street
Weymouth, MA 02189



2021 APR 01 AM 10:41
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MEMORANDUM

#21 054

TO: TOWN COUNCIL
FROM: ROBERT L. HEDLUND, MAYOR *Robert L. Hedlund*
RE: WATER RETAINED EARNINGS - LIBBEY PARK
REPLACEMENT WELL IMPLEMENTATION
DATE: APRIL, 2021

I hereby submit the following measure to Town Council for its consideration and action:

“That the Town of Weymouth raise and appropriate the sum of \$350,000 from the Water Enterprise Fund’s Retained Earnings for the purpose of funding the costs associated with the Libbey Park Replacement Well Implementation.”

See item #60 in the FY22-FY26 Capital Improvements Plan.

This measure requires a legal notice and public hearing.

At the time of this submittal the balance in Water Retained Earnings is \$1,503,603.

Referral Dte. _____ PH Dte. _____
Comm. Referral _____ TC Vote _____
Comm. Vote _____ TC Vote Dte. _____
Comm. Vote Dte. _____

Weymouth
Town Council

2021 APR - 1 AM 10: 32

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**Libbey Park Replacement Well Implementation
Town of Weymouth
Opinion of Probable Construction Cost**

Item No.	Description	Units	Quantity	Unit Price	Extended Amount
<i>Yard Piping & Site Work</i>					
	Pump & Motor	LS	1	\$20,000	\$20,000
	Pitless Adapter	LS	1	\$12,000	\$12,000
	Column Piping, Check Valve, Wiring	LS	1	\$3,500	\$3,500
	Level Transmitter	LS	1	\$2,500	\$2,500
	Hydrant Assembly	EA	1	\$7,500	\$7,500
	8" Gate Valve	EA	1	\$3,000	\$3,000
	6" Gate Valve	EA	1	\$2,500	\$2,500
	8" DI CL 52	LF	35	\$225	\$7,875
	8" DI CL 52, Insulated	LF	10	\$275	\$2,750
	6" DI CL 52	LF	10	\$200	\$2,000
	Filter Sock	LF	330	\$15	\$4,950
	Fence	LF	250	\$45	\$11,250
	4-ft Gate	EA	1	\$750	\$750
	Swing Gate	EA	1	\$2,500	\$2,500
	Restoration of Growth	SY	1,000	\$15	\$15,000
	Gravel Drive Restoration	CY	200	\$75	\$15,000
	Bollards	EA	3	\$750	\$2,250
<i>Process Piping</i>					
	8" DI Flanged Pipe	LS	1	\$7,500	\$7,500
	8" Wall Core	LS	1	\$1,500	\$1,500
	Relocate Magmeter and Pressure Transmitter	EA	2	\$3,000	\$6,000
	Well Service Air Valve & Pipe to Drain	EA	1	\$2,500	\$2,500
	8" Butterfly Valve	EA	2	\$2,500	\$5,000
	8" Check Valve	EA	1	\$6,000	\$6,000
	Pipe Supports	LS	1	\$1,500	\$1,500
	Demolition	LS	1	\$10,000	\$10,000
	Well Decommissioning	LS	1	\$12,000	\$12,000
<i>Electrical</i>					
	New 200A, 480V, three phase electrical service including overhead secondary riser, utility disconnect switch, conduit, conductors, & metering	LS	1	\$8,000	\$10,000
	New 200A main breaker, distribution panel, grounding and surge protection device	LS	1	\$8,000	\$8,000
	New manual transfer switch, generator breaker and portable generator hookup	LS	1	\$6,000	\$6,000
	New 30HP VFD with bypass starter, in-line reactor and DV/DT filter	LS	1	\$18,000	\$18,000
	New power and signal wiring, conduit	LS	1	\$6,000	\$6,000
	Misc electric work	LS	1	\$5,000	\$5,000
	Electrical testing	LS	1	\$4,000	\$4,000
	Electrical demollition	LS	1	\$2,000	\$2,500
<i>Miscellaneous</i>					
	SCADA Integration	LS	1	\$10,000	\$10,000
	Mobilization and Demobilization	LS	1	\$10,000	\$10,000
	Startup and Testing	LS	1	\$5,000	\$5,000
	Painting	LS	1	\$5,000	\$5,000
	Misc. Work and Cleanup	LS	1	\$8,000	\$8,000
Total					\$264,825
15% Contingency					\$39,724
Engineering - Bidding & Construction Phase					\$39,800
Total					\$344,349
Total (Rounded)					\$344,000



March 3, 2021

Mr. Kenan Connell, Director
Department of Public Works
120 Winter Street
Weymouth, MA 02188

**RE: Proposal for Engineering Services – Bidding and Construction Phase Services
Libbey Park Replacement Well Implementation**

Dear Mr. Connell,

Environmental Partners Group, Inc. (Environmental Partners) is pleased to provide you with this proposal for engineering services associated with the Libbey Park Replacement Well Implementation Project. We have prepared the scope and budget based on our recent meetings with Department of Public Works staff, site visits and discussions with MassDEP, and our understanding of the Weymouth Water System. Our scope includes design services.

Project Understanding

The Libbey Park Well was recently replaced to restore lost pumping capacity back to the registered approved safe yield of 0.38 million gallons per day (MGD). The replacement well was installed in January 2020 by F.G. Sullivan Drilling under subcontract to Environmental Partners. The 18-inch diameter production well was installed using the cable tool drilling method and was developed by surging and pumping until the discharge was clear, pumping rates had stabilized and no increase in pumping capacity was observed. A constant rate pumping test was performed, consistent with MassDEP requirements for conducting pump tests in support of citing a replacement public water supply. Upon approval of the pump test results, Environmental Partners completed design of the pump station modifications to implement the replacement well. MassDEP approval of the well implementation design is anticipated in March 2021.

Environmental Partners has prepared the Scope of Services outlined below to assist the Town with the completion of this project, including providing bidding assistance and construction administration services for a Contractor to complete the work.

Scope of Services

Task 1: Bidding Assistance

- A. Obtaining State Wage Rates for the construction work.
- B. Coordination and completion of advertising requirements.
- C. Preparation, copying, and distribution of public bid documents through the online hosting site ProjectDog.

- D. Coordination of the bidding process including preparation of addenda and responding to questions from prospective bidders.
- E. Attendance at the pre-bid meeting and distribution of attendance list and meeting notes through Addendum.
- F. Review and evaluation of public bids to identify the lowest responsible and eligible bidder. This will include a review of references and preparation of a bid tabulation.
- G. Preparation of a letter with a recommendation to award the construction contract.
- H. Assistance with the preparation of the contract for execution with the contractor and the Town for the necessary performance and payment bonds, certificates of insurance and agreement forms.

Task 2: Construction Administration

Environmental Partners will assist the Town with the administration of the construction contract.

This task will include:

- A. Make visits to the site at intervals appropriate to the various stages of construction to observe as an experienced and qualified design professional the progress and quality of the executed work of Contractor(s) and to determine in general if such work is proceeding in accordance with the Contract Documents. (Environmental Partners construction administrative staff shall not be required to make exhaustive or continuous on site inspection to check the quality or quantity of such work). Environmental Partners construction administrative staff shall not be responsible for the means, methods, techniques, sequences or procedures of construction selected by Contractor(s) or the safety precautions and programs incident to the work of Contractor(s). Environmental Partners' efforts will be directed toward providing a greater degree of confidence for Client that the completed work of Contractor(s) will conform to the Contract Documents, but Environmental Partners shall not be responsible for the failure of Contractor(s) to perform the work in accordance with the Contract Documents. During such visits, and on the basis of on site observations, Environmental Partners shall endeavor to keep Client informed of the progress of the work, shall endeavor to guard Client against defects and deficiencies in such work and may recommend the Client disapprove or reject work failing to conform to the Contract Documents.
- B. Review and take appropriate action in respect to Shop Drawings and samples, results of tests and inspections, and other data which Contractor is required to submit, but only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents (but such review or other action shall not extend to means, methods, sequences, techniques or procedures of construction or to safety precautions and programs incident thereto); determine the acceptability of substitute materials and equipment proposed by Contractor(s); and receive and review (for general content as

required by the Specifications) maintenance and operating instructions, schedules, guarantees, bonds and certificates of inspection which are to be assembled by Contractor(s) in accordance with the Contract Documents.

- C. Issue all instructions of Client to Contractor(s); issue necessary interpretations and clarifications of the Contract Documents and in connection therewith prepare change orders as required; have authority, as Client's consultant, to require special inspection or testing of the work; act as initial interpreter of the requirements of the Contract Documents and judge of the acceptability of the work thereunder and make decisions on all claims of Client and Contractor(s) relating to the acceptability of the work or in the interpretation of the requirements of the Contract Documents pertaining to the execution and progress of the work; but Environmental Partners shall not be liable for the result of any such interpretations or decisions rendered in good faith.
- D. Based on Environmental Partners' part time on site observations as an experienced and qualified design professional on review of applications for payment and the accompanying data and schedules, determine the amounts owing to Contractor(s) and recommend in writing to the Client payments to Contractor(s) in such amounts; such recommendations for payment will constitute a representation to Client, based on such observations and review, that the work has progressed to the point indicated, that, to the best of Environmental Partners' knowledge, information and belief, the quality of such work is in accordance with the Contract Documents (subject to an evaluation of such work as a functioning Project upon Substantial Completion, to the results of any subsequent tests called for in the Contract Documents, and to any qualifications stated in his recommendation), and that payment of the amount recommended is due Contractor(s); but by recommending any payment Environmental Partners will not thereby be deemed to have represented that continuous or exhaustive examinations have been made by Environmental Partners to check the quality or quantity of the work or to review the means, methods, sequences, techniques or procedures of construction or safety precautions or programs incident thereto or that Environmental Partners has made an examination to ascertain how or for what purposes Contractor has used the moneys paid on account of the Contract Price, or that title to any of the work, materials or equipment has passed to Client free and clear of any lien, claims, security interest or encumbrances, or that Contractor(s) have completed their work exactly in accordance with the Contract Documents.
- E. Conduct a review to determine if the Project is substantially complete and to determine if, to the best of Environmental Partners' knowledge, the work has been completed in substantial conformance with the Contract Documents and the intent of the design and if Contractor has fulfilled all of his obligations thereunder so that Environmental Partners may recommend, in writing, final payment to Contractor(s) and may give written notice to Client and the Contractor(s) that the work is acceptable (subject to any conditions therein expressed), but any such recommendations and notice shall be subject to the limitations expressed in paragraph D above.

- F. Environmental Partners shall not be responsible for the acts or omissions of any Contractor, or subcontractor, or any of the Contractor(s)' or subcontractors' agents or employees or any other persons (except Environmental Partners' own employees and agents) at the site or otherwise performing any of the Contractor(s)' work; however, nothing contained in paragraphs A through F, inclusive, shall be construed to release Environmental Partners from liability for failure to properly perform duties undertaken by him in the Contract Documents.
- G. Environmental Partners shall collect and store certified payrolls from the Contractor(s) or subcontractor and provide the Client with copies as requested.
- H. Environmental Partners shall prepare record drawings and furnish three (3) sets of prints to the Client containing those changes made during the construction process which are reflected on the marked up prints and drawings prepared by the Contractor furnished to Environmental Partners. In addition, Environmental Partners shall furnish the following documents:
- A copy of all shop drawings.
 - A copy of all project photographs including preconstruction, construction, and post construction photographs.
 - A copy of all field notes from all project representatives.
 - A copy of all testing logs and startup and commissioning logs.
 - PDF and AutoCAD copies of the As-Built plans. Two (2) sets of hard-copy record drawings.
 - Five (5) sets of vendor O&M manuals and warranties combined into two respective binders.

Project Team

Environmental Partners has assembled a qualified, and experienced team for this project. Mr. Ryan Allgrove, P.E., will be the Project Manager responsible for the day-to-day progress of each task. He will be the first point of contact for the Town. Mr. Allgrove will work closely with the proposed team for each task ensuring the highest level of experience and quality. Mr. Allgrove will be supported by Project Engineer Alex Richards, P.E. Technical Quality Control and Quality Assurance will be the responsibility of Paul Millett, P.E., Senior Project Manager.

Fee and Payment

Environmental Partners proposes to perform the indicated Scope of Services for all tasks previously described for a not-to-exceed fee of Thirty Nine Thousand Eight Hundred Dollars (\$39,800). A breakdown of the fee by tasks is presented in the table below.

Task 1: Bidding Assistance	\$ 9,100
Task 2: Construction Administration	\$ 30,700
Total	\$ 39,800

Acceptance

If this proposal is acceptable to you, we can prepare a standard contract for Environmental Partners to perform the work described herein. We are prepared to commence the above scope of services immediately upon receipt of a formal Notice to Proceed. We look forward to working with you on this important project. Please feel free to contact me at (617) 657-0281 or rja@envpartners.com with any questions or concerns.

Sincerely,

A handwritten signature in black ink that reads "Ryan Allgrove". The signature is written in a cursive, flowing style.

Environmental Partners Group, Inc.

Ryan J. Allgrove, P.E.

Principal

P: 617.657.0281

E: rja@envpartners.com