Ordinance 189 **- 2022**

Authorizing The Mayor, Finance Director, and Director of Public Service To Enter Into An Agreement With ARCADIS, U.S. Inc., One Seagate, Suite 700, Toledo, Ohio 43604 To Provide Professional Engineering Services For The Design Of Various Concrete Replacement Work Above And Around Various Tanks At The Water Treatment Plant In An Amount Not To Exceed One Hundred Forty-Nine Thousand and 00/100 Dollars ($149,000.00); And Declaring An Emergency

Summary And Background

The Director of Public Service advertised and requested qualification statements from qualified professional engineering firms to provide Professional Engineering Services for the design of various concrete replacement work above and around various tanks at the Oregon Water Treatment Plant.

Letters of Interest and Qualification Statements were received from ARCADIS, U.S., Inc.; Jones & Henry Engineers, Ltd.; and S&S Engineers, Inc.

ARCADIS, U.S., Inc. has been determined by the City Administration to be most qualified for the request for professional engineering services for the design of Water Treatment Plant (WTP) Concrete Replacement Project.

The attached "Exhibit A" has been reviewed by the Director of Public Service and is determined to be fair and reasonable for the work required.

Oregon City Council has provided funding in the approved 2022 C.I.P. Municipal Budget in Account 610.3162.57722 for the said professional service design project work. **Now, Therefore,**

Be It Ordained By The Council Of The City Of Oregon, Ohio, That:

Section 1. The Mayor, Finance Director and Director of Public Service are hereby authorized to enter into an agreement with ARCADIS, U.S., Inc. One Seagate Center, Suite 700, Toledo, Ohio 43604 to provide Professional Engineering Services for the design of Various Concrete Replacement Work above and around various tanks at the Water Treatment Plant in amount not to exceed One Hundred Forty-Nine Thousand and 00/100 Dollars (149,000.00) in accordance with "Exhibit A", attached hereto and made a part hereof.

Section 2. It is hereby found and determined that all formal actions of this Council concerning and relating to the passage of this Ordinance were adopted in an open meeting of this Council and that all deliberations of this Council and any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements, including Section 121.22 of the Revised Code of Ohio and that the reading and adoption of this Ordinance complies with the provisions of Article III, Section 9 of the city Charter as amended.

Section 3. This Ordinance is hereby declared to be an emergency measure and shall take effect and be in force from and after its passage and signature by the Mayor. The reason for the emergency lies in the fact that this Ordinance is necessary in order to hire the consultant and proceed with the project in a timely manner.

Vote on passage as an emergency: Yeas 7 Nays 0 Abs 0

Passed as an emergency measure on December 12, 2022

President of Council

Approved:

Mayor

Attest:

Clerk of Council

"Exhibit A"

ARCADIS

Mr. Paul Roman, P.E.
Director of Public Service
5330 Seaman Road
Oregon, OH 43616

Arcadis U.S., Inc.
One SeaGate
Suite 700
Toledo
Ohio 43604
Phone: 419 473 1121
www.arcadis.com

Date: December 8, 2022
Our Ref: 30114473
Subject: Oregon Water Treatment Plant
Concrete Replacement Project

Dear Mr. Roman,

Thank you for the opportunity to assist Oregon with the design of the concrete replacement at the water treatment plant. The original treatment plant (now called Plant #1) has been in continuous service since 1964. Concrete has deteriorated in the outdoor open-top basins and needs to be replaced in areas. This proposal was developed as a follow-up to our Letter of Interest submitted on November 10, 2022 and meeting and project walk-thru on November 30, 2022.

Understanding of the Project

Sedimentation basins and recarbonation basins are the outdoor open-top basins on north and south sides of the Chemical Building in Plant #1. The horizontal concrete surfaces at the top of these basins and adjacent flumes have deteriorated over the years due to the weather and repeated freeze/cycles – especially at the embedded railing posts. Attempts to spot repair these surfaces have been unsuccessful and the City now plans to replace the concrete walkways and flume top slabs where needed and eliminate all embedded railing posts. There is evidence of water seepage through the concrete flume walls and repairs of a few small, localized areas are anticipated as part of the project. Due to the strategic nature of identifying specific items to repair, our design team will seek to closely coordinate with the City to ensure we are on the same page regarding the limits of planned repairs.

Basins will need to be removed from service and temporary shoring may be needed across the basins to facilitate demolition and concrete replacement work. Sedimentation basin equipment will need to be protected so it is not damaged during concrete demolition and replacement. Construction activities will need to be closely coordinated with Plant Operations since the treatment plant capacity will be reduced when the north or south treatment basins are out of service.

The City requested a proposal for final design services only. Deliverables will include structural design drawings, technical specifications and construction cost estimate. Oregon plans to prepare the front-end bid documents and perform bidding services. In response to the City's request, we propose the following scope of services.

Scope of Services

1. Review record drawings for the Plant 1 sedimentation and recarbonation basins on the north and south side of the Chemical Building.

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2. Perform visual inspection of the sedimentation basins, recarbonation basins, and inside the adjoining flumes after draining and washdown by the City. We anticipate basins will need to be out-of-service for two days for this work. The intent of this field work is to see the general condition of the concrete and identify cracks or areas that may need repairs. City will provide ladders to enter the basins, remove the grating in the flume walkways and provide general assistance during this field work.
3. Perform site visit to delineate limits for concrete replacement and flume side wall replacement and repair types.
4. Review general condition of existing aluminum railing and embedded posts to determine if railing can be cut off flush with the top of concrete and re-installed after the concrete has been replaced. Re-using existing railing will require installation of top mounted cast base flanges on top of the new concrete to receive existing aluminum posts.
5. Prepare a preliminary opinion of estimated construction cost for the identified improvements. As discussed at the meeting, existing sluice gate floor stands will be removed and remounted in areas where concrete is replaced. Existing aluminum stop gates frames will be cut-off 12-inches below the top slab if the concrete is replaced. For grating areas over the flumes, existing grating will be re-used and new embedded grating frames will be required if the concrete is removed.
6. Meet with the City to review general findings, proposed concrete demolition and repair limits and types as well as railing considerations. Proposed concrete demolition and repair limits will be shown on a hand sketch discussed at the meeting. To meet the proposed schedule, the City's acceptance of the better-defined repair scope is needed at this meeting.
7. Perform structural design of the proposed improvements.
8. Analyze existing walls for original design intent including load combinations and reinforcing steel. This will determine if lateral bracing is needed during demolition and construction of the concrete walkways, struts, and tops of flumes. Design of any required lateral bracing is not included since this will be delegated to the Contractor in the Bid Documents.
9. Develop drawings showing work to be performed including: general, special inspections, miscellaneous structural details and structural drawings. Drawings will use record drawings as background and photographs to show the intended work.
10. Develop a construction work sequence defining time limitations when basins can be removed from service and which basins can be removed from service at the same time. Information will be included in Section 01 14 16 Coordination with Owner's Operations.
11. Develop technical specifications including demolition, concrete and accessories, anchor systems, aluminum handrails and railings, and aluminum grating embeds.
12. Submit 90% design deliverables to the City for review and comment.
13. Develop estimated construction cost of proposed improvements.
14. Submit 100% design deliverables including structural drawings with PE stamp (PDF format only), technical specifications and final estimated construction cost to the City.

Responsibilities of the City

1. City plans to prepare all other specifications and front-end documents for bidding including Notice to Bidders, Information to Bidders, Bid Forms, Pay Request Forms, prevailing wage rates and general terms and conditions.
2. Apply for and secure permits, if necessary.

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3. City plans to perform bidding services. Proposal is limited to structural design services only. We will work with the City to develop a separate proposal for engineering or RPR services during construction, if needed.

Schedule

The City's Request for Qualifications anticipated authorization to proceed by November 29, 2022 and requested final plans and specifications be completed and ready for advertising in April 2023. The City anticipated construction from May 2023 to September 2023. Based on discussions during our meeting, we propose the following design schedule.

Project Activity	Date
Authorization to Proceed	12/13/2022
Complete Field Work	01/06/2023
Meeting with City	02/10/2023
Submit 90% draft bid documents to City	03/24/2023
Receive City review comments	04/07/2023
Submit final bid documents to City	04/28/2023

Fee

We propose to perform engineering services on a cost reimbursement multiplier fee basis plus other direct costs or reimbursable expenses. Work would be performed in accordance with an Agreement for Engineering Services that will be forwarded upon request. Our estimated fee is $149,000 and is based on the following:

Employee Classification	Hours	Rate
Junior Structural Engineer	284	$197
Senior Structural Engineer	236	$110
Principal Structural Engineer	24	$249
CAD Technician	430	$101
Project Manager	64	$237
Administrative Assistant	24	$108

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We appreciate your trust in Arcadis and will work closely with the City throughout final design. Please let us know if you have any questions or wish to discuss this proposal.

Sincerely,
Arcadis U.S., Inc.

Jeffry J. Swartz, PE
Project Manager

Email: jeff.swartz@arcadis.com
Direct Line: 419.213.1648
Mobile: 419.450.4316

CC. Mr. Doug Wagner

This proposal and its contents shall not be duplicated, used or disclosed — in whole or in part — for any purpose other than to evaluate the proposal. This proposal is not intended to be binding or form the terms of a contract. The scope and price of this proposal will be superseded by the contract. If this proposal is accepted and a contract is awarded to Arcadis as a result of — or in connection with — the submission of this proposal, Arcadis and/or the client shall have the right to make appropriate revisions of its terms, including scope and price, for purposes of the contract. Further, client shall have the right to duplicate, use or disclose the data contained in this proposal only to the extent provided in the resulting contract.

OREGON
OPPORTUNITY ON THE BAY

REQUEST FOR QUALIFICATIONS
CITY OF OREGON
WATER TREATMENT PLANT (WTP) – CONCRETE REPLACEMENT PROJECT

Notice is hereby given that the City of Oregon is requesting qualification statements from interested professional engineering firms for the design of various concrete replacement work above and around various tanks at the Oregon Water Treatment Plant located at 951 N. North Curtice Road, Oregon Ohio. The firm selected will be responsible for preparing detailed construction plans and specifications for the project.

Interested firms need to obtain a complete copy of the Request for Qualifications from the City's website at www.oregonohio.org/engineering/engineering/bidding-information.html. Specific questions concerning the project details can be emailed to proman@oregonohio.org.

Firms interested in being considered for selection must respond by 4:30 PM on Thursday, November 10, 2022 to Paul Roman, Director of Public Service, City of Oregon, 5330 Seaman Road, Oregon, Ohio 43616 by submitting three (3) paper copies and one (1) electronic copy of a Letter of Interest. The City of Oregon will directly select a qualified consultant based on the responses to this RFQ.

By Order of the Council of the City of Oregon, Ohio. Ordinance No. 1-2022.

Paul Roman
Director of Public Service

PR:jab

Published: October 23, 2022
October 30, 2022