

**AGREEMENT — AMENDMENT NO. 1 TO
AGREEMENT FOR PROFESSIONAL SERVICES FOR ENVIRONMENTAL CONSULTANTS/CONTRACTORS
BETWEEN
E2 CONSULTING ENGINEERS AND CITY OF SALINAS**

This Amendment No. 1 to the Agreement for Professional Services (the “Amendment”) is entered into this 8th day of August 2023, by and between the City of Salinas (the “City”) and E2 Consulting Engineers, (the “Consultant”). City and Consultant may be individually referred to herein as a “Party” and collectively the City and Consultant may be referred to as the “Parties.”

RECITALS

WHEREAS, the City and Consultant first entered into an Agreement for Professional Services for Environmental Consultants/Contractors effective June 14th, 2022, pursuant to which Consultant agreed to act as and provide certain services to the City for compensation (the “Agreement”); and

WHEREAS, the City and Consultant desire to amend the Agreement to reflect an additional scope of services provided by Consultant, and to reflect the revised compensation to be paid to Consultant.

NOW, THEREFORE, in mutual consideration of the terms and conditions set forth below, the Parties agree as follows:

TERMS

- I. The Agreement, 1. Scope of Service section, is amended and restated in its entirety as follows:
 1. **Scope of Service.** The project contemplated and the scope of Consultant’s services are described in **Exhibits B and B1**, attached hereto and incorporated herein by reference.
- II. The Agreement, 3. Compensation section, is amended and restated in its entirety as follows:
 2. **Compensation.** City hereby agrees to pay Consultant for services rendered the City pursuant to this Agreement on a time and materials basis according to the rates of compensation set forth in **Exhibits B, and B1**. The total amount of compensation to be paid under this Agreement shall not exceed **one million, two hundred sixty-nine thousand three hundred dollars (\$1,269,300)**.
- III. All other covenants, terms, and conditions set forth in the Agreement and not amended by this Amendment shall remain in full force and effect as if fully set forth herein.

IN WITNESS WHEREOF, the undersigned, as authorized representatives of the City and Consultant have entered into this Agreement as of the date first written above.

CITY OF SALINAS

Steven S. Carrigan, City Manager

APPROVED AS TO FORM:

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- Christopher A. Callihan, City Attorney
 - Rhonda Combs, Assistant City Attorney

E2 CONSULTING ENGINEERS

Vinod Badani

Vice President, E2 Consulting Engineers, Inc.

E | 2 Exhibit B

April 29, 2022

Mr. Brian Frus, PE
Water, Waste and Energy Division Manager
City of Salinas Public Works Department
200 Lincoln Avenue
Salinas, CA 93901

Subject: Proposal to provide Engineering Services for Improvements to IWTF
Preliminary Design, Final Design and Bidding Phase Services

Dear Brian,

E2 Consulting Engineers, Inc. (E2) is pleased to submit proposal for the requested professional services for the City's Industrial Wastewater Treatment Facility (IWTF) Improvements. Improvements at IWTF are anticipated in three separate construction contracts. Three Construction Contracts are:

- Contract 1** – Improvements to Existing Aeration Lagoon and New Aeration Lagoon in Pond 1
- Contract 2** – Pond Automation and Flow Distribution and Pond 3 Pump Station Up-Grade
- Contract 3** – Aeration VFD and Back-Up Power

Scope of Project for IWTF Improvements is summarized in **Attachment A-1**.

Scope of Work for each Construction Contract is provided in **Attachment A-2**.

Engineering costs for each construction contract is provided in **Attachments B-1, B-2 and B-2**.

Schedules of Professional Rates are provided in Exhibits B-1 and B-2

E2 has a clear understanding of the City of Salinas' (City's) objectives and goals for this project. E2 and Frisch Engineering Inc. has provided engineering services at this facility in the past and are very familiar with past improvements and City's requirements.

Key lead members of our proposed team are **Vinod Badani, Loren Weinbrenner, Drew McIntyre, Joe Reichenberger and Tom Frisch of Frisch Engineering Inc.**

Key members of the E2 team have been working together on water and wastewater projects in Monterey County for more than 30 years. Among those projects are many sponsored by the City of Salinas and M1W. The E2 team is highly familiar with the unique characteristics of the area, City's preferences and how these conditions affect the delivery and performance of engineered projects.

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E2 is proud of having excellent working relations with its clients and proves this by repeated work with the same clients over many years. It is the culture of E2 leadership to listen to clients to understand their interests, discuss preferred operational strategies, offer suggestions and explanations for solutions to project challenges, and be responsive to the client feedback. We encourage you to contact our references to verify how we work cooperatively with our clients to deliver projects.

We look forward to continuing our relationship with the City of Salinas Public Works Department.

If need any additional information, please contact me at 510-754-6560

Thanks you very much.

Sincerely,

Vinod Badani

Vinod M. Badani, P.E.

Vice President

ATTACHMENT A-1

City of Salinas – IWTF Improvements

SCOPE OF PROJECT

City of Salinas (City) has identified improvements required for the existing Industrial Wastewater Treatment Facility (IWTF). Recommended components for improvements are as described below:

A. Project Components – Improvements at IWTF

- 1. Existing Aeration Lagoon Improvements.** The existing Aeration Lagoon currently has twelve (12) 50-hp surface aerators installed. To meet existing treatment capacity, City staff has recommended replacing four (4) aerators with new units of the same capacity as the existing aerators. In addition, City staff is also recommending the existing electrical and communication systems be upgraded.
- 2. New Aeration Lagoon.** An additional Aeration Lagoon is required to meet the required treatment during winter flows. An additional lagoon volume of 15 MG is required. The new Aeration Lagoon will be constructed within the existing percolation Pond 1 by constructing a new berm within Pond 1. The new aeration lagoon will have five (5) new aerators of the same capacity as in the existing Lagoon (50-hp each). Electrical and communication improvements made under item 1 above, will be designed to incorporate requirements for the new Aeration Lagoon.
- 3. Pond Automation and Flow Distribution.** This component includes facilities for additional automation that will enhance plant monitoring and operation. The proposed improvements include new piping/valves, level controls, slide gates and electrical/communication. Two such packages are anticipated, one between Pond 1 and Pond 2 and the second between Pond 2 and Pond 3. Alternatives for accomplishing the same monitoring and operations improvements will be evaluated during the preliminary design phase of this project.
- 4. Pond 3 Pump Station Up-Grade.** The existing Pond 3 Pump Station currently has only one pumping unit. To provide more reliability of the system, it has been recommended that an additional pump of the same capacity as the existing pump be installed. Pond 3 Pump Station was designed and constructed to accommodate future installation of two additional pumps of the same capacity as the first.
- 5. VFD Up-Grades to Aerators.** City has identified the need to install Variable Frequency Drives (VFDs) on the aerators, existing and new. The addition of these VFDs will allow for a more efficient operation which will lead to operational cost savings.
- 6. Back-Up Power.** The current IWTF does not have emergency standby power. City plans to add an emergency generator to the IWTF to increase facility reliability/resiliency and ensure uninterrupted wastewater conveyance in the

event of power outages. The required kilowatt capacity of emergency generator will be determined during the preliminary design phase of this component.

- B. Construction Contracts.** Three separate construction contract packages (Project Manuals consisting of front-end documents, general conditions, plans and specifications) will be prepared for the proposed improvements at the IWTF. Three separate construction packages will include project elements as described below:

Construction Package 1: Includes improvements to the Existing Aeration Lagoon and New Aeration Lagoon in Pond 1. (Project components 1 and 2 described above).

Construction Package 2: Includes new Pond Automation and Flow Distribution component and the Pond 3 Pump Station Up-Grade. (Project components 3 and 4 described above).

Construction Package 3: This package will include Aeration VFD Up-Grades and Back-up Power components. (Project components 5 and 6 as described above).

- C. Construction Documents.** Construction documents, Plans and Technical Specifications, specific for each construction contract described above, will be prepared. City will provide documents related to Bidding Requirements, Contracting Requirements and Conditions of Contract. These documents will be amended specific to each construction package and will be incorporated into the Project Manual (with the Technical Specifications) for each construction contract.

City has requested Consultant provide the scope of work and associated engineering costs for each construction packages. Engineering services will be provided in three phases as listed below:

1. Phase 1: Preliminary Design
2. Phase 2: Final Design
3. Phase 3: Bidding Phase

In addition to the above, City has requested engineering support be provided for a single Technical Project Report that will support the SRF program grant application.

The Scope of Work for Improvements to the IWTF is provided in Attachment A-2; engineering costs for each construction package is provided in Attachment B.

ATTACHMENT A-2
City of Salinas – IWTF Improvements
SCOPE OF WORK

Scope of Work

Scope of Work for each project component identified in the Scope of Project (Attachment A-1) is described below:

TASK 1 – DESIGN OF IMPROVEMENTS TO EXISTING AERATION LAGOON AND NEW AERATION LAGOON

This task includes the following components as part of design and construction.

- ✓ Electrical Improvements:
 - Replacement 12kv distribution system. To include connection for future generator.
 - Feeders to existing aerators (PDC-A and PDC-B)
 - Feeder to new aerator pond (PDC-D)
 - Feeder to existing influent pump station (PDC-C)
 - New substations and motor controls at each PDC aeration location
- ✓ Replacement of four (4) new 50hp aerators within existing Aeration Lagoon.
- ✓ New Aeration Lagoon (Volume 15 MG)
- ✓ Five (5) new aerators (in new Aeration Lagoon)
- ✓ Electrical PLC controls and communications for new and existing Aeration Lagoon Facilities

SUBTASK 1.1 PROJECT MANAGEMENT AND COORDINATION AND SRF FUNDING APPLICATION - TECHNICAL SUPPORT

SUBTASK 1.1.1 – PROJECT MANAGEMENT AND COORDINATION

E2 will provide effective management throughout the duration of the design work to ensure a finished project of the highest quality constructed within the budget and time limits that have been established for this project. Collaboration and effective communication between the City and E2 will be crucial in meeting these goals. This will be facilitated through monthly coordination meetings over the duration of the project, beginning with a project commencement and user group meeting that includes City Operations Staff. Key issues arising between monthly coordination meetings can be addressed by periodic conference calls. Minutes from monthly coordination meetings and documentation of consensus established for key issues will be provided by E2 on a timely basis.

E2 will review with City staff relevant documents prepared earlier for Electrical/Communication Improvements to confirm requirements.

Deliverables:

- ✓ **Minutes of meetings and teleconferences, report(s) of consensus established for key issues and other such documents and letters as are necessary for communication and memorialize decisions made with City as work progresses.**

SUBTASK 1.1.2 – SRF FUNDING APPLICATION - TECHNICAL SUPPORT

Support Carollo and the City in preparation of SRF Funding Application. Effort will include providing technical details to be incorporated within the Technical Project Report, submittal of which is a requirement of the SRF Funding Application. Technical Project Report will be prepared by Carollo.

SUBTASK 1.2 – PROJECT KICK-OFF MEETING AND SITE VISIT

E2 will attend a project commencement (Kick-Off) meeting with City Engineering Staff (and Carollo project staff) to discuss the project and meet with Operations and Maintenance Staff to discuss project requirements and goals. A site visit will be conducted following the kick-off meeting.

Deliverables:

- ✓ **Prepare Commencement Meeting Agenda and Report on Decisions Made and assigned Follow-Up Actions**

SUBTASK 1.3 – DATA GATHERING, INSPECTION, FIELD SURVEYING AND REVIEW

E2 will with due diligence collect and review background project reports, records, data, maps, and other documents relevant to defining the limits and the scope of the project design. We also will identify the anticipated tests and evaluations that will be needed to complete the design. City will be provided relevant documents. During the site visit following the kick-off meeting, and when conducting other site visits as deemed appropriate, we will field verify as-built conditions, (to the extent these can be determined from visual observation) and will make necessary modifications to the existing drawings of any variances observed during the field trip. We will arrange additional field trips during the design process to assure that proposed modifications are feasible and constructible. Additional field surveying is anticipated to be necessary and will be identified during and immediately following the site visit.

SUBTASK 1.4 – PLANS, SPECIFICATIONS & ESTIMATES

All designs prepared by E2 will be in accordance with City of Salinas Design and Construction Standards and other applicable standards, such as California Building, Electrical, Mechanical, Plumbing, and Fire Codes, Standard General Conditions of the Construction Contract documents to be provided by the City, and Caltrans Standard Plans and Specifications.

Drawings shall be prepared using the latest version of AutoCAD.

Technical Specifications will be developed for the Project Manual using the current Construction Specifications Institute (CSI) document format and will include City front end bidding and contract documents.

The Work for this Task 1 will be divided into four phases - 30% design package (Basis of Design Report-BODR), 60% design package, 95% Design Package and final issued for bid documents.

SUBTASK 1.4.1 – THIRTY PERCENT (30%) DESIGN PACKAGE - BODR

The 30% level of completion submittal or Basis of Design Report (BODR) shall include:

- ✓ Review of conceptual level report prepared for the City by Carollo.
- ✓ Conduct and present results of Flow and Loading Analysis for Near-Term and Long-Term Flows and Loading
- ✓ Review existing mechanical, electrical/communication systems
- ✓ Identify improvements required
- ✓ Prepare construction cost estimates
- ✓ Summarize findings, conclusions, and recommendations in the BODR
- ✓ Review Meeting(s) with City Staff
- ✓ Final BODR will include City's comments to the draft BODR. The final BODR will be used to prepare construction documents.

Deliverables:

- ✓ ***Draft PDF copy of BODR at 90% level***
- ✓ ***Engineer's estimate of probable construction cost at 30% design level.***
- ✓ ***Final PDF Copy of BODR, incorporating City's comments, including updated construction cost estimates to 30% design level***
- ✓ ***Other required documents.***

SUBTASK 1.4.2 – SIXTY- PERCENT (60%) DESIGN PACKAGE

The 60% submittal package will include: all documents in the 30% (BODR) submittal package further advanced and detailed and incorporation of City's comments from the BODR submittal into the design details.

Deliverables:

- ✓ ***An agenda for the design review meeting and minutes of the design review meeting.***
- ✓ ***One (1) PDF Copy of half-size drawings.***
- ✓ ***One PDF Copy of Technical Specifications***
- ✓ ***Engineer's estimate of probable construction cost at 60% design.***
- ✓ ***Other required documents.***

SUBTASK 1.4.3 – NINETY-FIVE PERCENT (95%) DESIGN PACKAGE

The 95% submittal package will include: all documents in the 60% submittal package further advanced and detailed and incorporation of City's comments from the 60% design submittal. An independent review of the construction documents will be completed in conformance with E2's QA/QC policy.

Deliverables:

- ✓ ***An agenda for the design review meeting and minutes of the design review meeting.***
 - ✓ ***One (1) PDF copy of half-plans***
 - ✓ ***One (1) PDF copy of Specifications.***
 - ✓ ***Engineer's estimate of probable construction cost at 95% design level***
 - ✓ ***Other required documents***
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SUBTASK 1.4.4 – FINAL BID DOCUMENTS

With the final bid document submittal, all comments received from City on the 60% and 95% design submittals will be incorporated into the Plans and Specifications. The plans are field checked for accuracy and coordination between disciplines is complete. The technical specifications are complete and ready with the plans to advertise for Bid. Design specific requirements are incorporated into the City's front-end documents. The engineer's estimate and project schedule are finalized. A final check will be provided to ensure the independent review comments are responded to and incorporated into the final documents as appropriate. All in conformance with E2's QA/QC Policy. Final review is undertaken by the City. Anything discovered in this last review will be incorporated into the construction documents; the documents are now ready for public bid.

Deliverables:

- ✓ ***Comment Resolution form identifying City comments on 60% and 95% design submittals and respective actions taken by E2.***
 - ✓ ***One (1) electronic AutoCAD file of plans.***
 - ✓ ***One (1) electronic PDF copy of Plans and Specifications.***
 - ✓ ***Final Engineer's estimate of probable construction cost.***
 - ✓ ***Design Calculations in binder and electronic PDF format.***
-

SUBTASK 1.5 – BID PHASE SERVICES

Assist City during the bid phase. Tasks will include the following:

- ✓ Attend a pre-bid conference and assist in preparation of minutes.
- ✓ Respond to inquiries/questions (RFIs) from bidders.
- ✓ Prepare addenda for bid documents as needed to clarify bidder inquiries and amend Contract Documents (Project Manual) as required.
- ✓ Assist City, if requested, to review and evaluate bids and provide a recommendation of award.

- ✓ Prepare Conformed project documents for Construction (Issued for Construction or IFC).

Deliverables:

- ✓ ***Agenda for Pre-Bid Meeting***
- ✓ ***Minutes of Pre-Bid Meeting***
- ✓ ***Addenda as needed (Assume 2 Addenda)***

TASK 2 – DESIGN OF POND AUTOMATION AND FLOW DISTRIBUTION AND POND 3 PUMP STATION UP-GRADE

This task includes the following components as part of design and construction.

- ✓ Construction of two new diversion vaults
- ✓ Conveyance piping, level control, and valves
- ✓ Structures with Slide Gates/Weir Gates to control flow.
- ✓ Instrumentation to measure pond level and water flow pond-to-pond over weir at each location.
- ✓ Electrical/Controls and communications (Use of Solar Farm Power and Radio Communication)
- ✓ Installation of additional one (1) new pump with VFD at existing Pond 3 Pump Station. Pond 3 Pump Station was designed to add additional two pumps of same capacity as the existing one pump currently installed. Provide additional Mechanical, Electrical/Instrumentation and communication system as required.

SUBTASK 2.1 PROJECT MANAGEMENT AND COORDINATION AND SRF FUNDING APPLICATION – TECHNICAL REPORT

SUBTASK 2.1.1 – PROJECT MANAGEMENT AND COORDINATION

E2 will provide effective management throughout the duration of the design work to ensure a finished project of the highest quality that is constructed within the budget and the time limits that have been established for this project. Collaboration and effective communication between the City and E2 will be crucial in meeting these goals. This will be facilitated through monthly coordination meetings over the duration of the project, beginning with a project commencement and user group meeting with City (including City operations staff) and M1W Operations Staff. Key issues arising between monthly coordination meetings can be addressed by periodic conference calls. Minutes from monthly coordination meetings and documentation of consensus established for key issues will be provided by E2 on a timely basis.

E2 will review with City and M1W staff relevant documents prepared earlier for Electrical/Communication Improvements to confirm requirements and design intent.

Deliverables:

- ✓ **Minutes of meetings and teleconferences, report(s) of consensus established for key issues and other such documents and letters as are necessary for communication with City and memorialize decisions made as work progresses.**

SUBTASK 2.1.2 – SRF FUNDING APPLICATION - TECHNICAL SUPPORT

Support Carollo and the City in preparation of SRF Funding Application. This will include providing technical details to be incorporated within the Technical Project Report. Technical Report will be prepared by Carollo.

SUBTASK 2.2 – PROJECT KICK-OFF MEETING AND SITE VISIT

E2 will attend a project commencement (Kick-Off) meeting with City/M1W Staff to discuss the project and meet with Operations and Maintenance Staff to discuss project requirements and goals. A site visit will be conducted following the kick-off meeting.

Deliverables:

- ✓ **Prepare Commencement Meeting Agenda and Report on Decisions Made and required Follow-Up Actions**

SUBTASK 2.3 – DATA GATHERING, INSPECTION, FIELD SURVEYING AND REVIEW

E2 will with due diligence collect and review background project reports, records, data, maps, and other documents relevant to defining the limits and the scope of the project design for Task 2. City/M1W has provided relevant documents. During the site visit following the kick-off meeting, and in other site visits as deemed appropriate, we will field verify as-built conditions and will make necessary modifications to the existing drawings of any variances observed during the field trip. We will arrange additional field trips during the design process to assure that proposed modifications are beneficial and constructible. **Some additional surveying may be required for the Pond Automation and Flow Distribution component of this Project. E2 will verify after site visit.**

SUBTASK 2.4 – PLANS, SPECIFICATIONS & ESTIMATES

All designs prepared by E2 will be in accordance with City of Salinas Design and Construction Standards and other applicable standards, such as California Building, Electrical, Mechanical, Plumbing, and Fire Codes, Standard General Conditions of the Construction Contract documents to be provided by the City, and Caltrans Standard Plans and Specifications.

Drawings shall be prepared using the latest version of AutoCAD.

Technical Specifications will be developed using the current Construction Specifications Institute (CSI) document format and will include City front end bidding and contract documents.

The Work for Task 2 will be divided into three phases - 50% design package, 90% design package, and final bid documents.

SUBTASK 2.4.1 – FIFTY PERCENT (50%) DESIGN PACKAGE

SUBTASK 2.4.2 – NINETY- PERCENT (90%) DESIGN PACKAGE

The 90% submittal package will include: all documents in the 50% design submittal package further advanced and detailed and incorporation of City's comments from the 50% design submittal.

Deliverables:

- ✓ ***An agenda for the design review meeting and minutes of the design review meeting.***
- ✓ ***One (1) PDF Copy of half-size drawings.***
- ✓ ***One PDF Copy of Technical Specifications***
- ✓ ***Engineer's estimate of probable construction cost to 90% design level.***
- ✓ ***Other required documents.***
- ✓ ***Comment / Comment Resolution Log***

SUBTASK 2.4.3 – FINAL BID DOCUMENTS

With the final bid document submittal, all comments received from City on the 50% and 90% design submittals will be incorporated into the Plans and Specifications. The plans are field checked for accuracy and coordination between disciplines is complete. The technical specifications are complete and ready with the plans to advertise for Bid. The engineer's estimate and project schedule are finalized. Final review is undertaken by the City. Anything discovered in this last review will be amended into the construction documents and the documents are now ready for public bid.

Deliverables:

- ✓ ***Comment Resolution log identifying City comments on 60% and 95% design submittals and respective actions taken by E2.***
- ✓ ***One (1) electronic AutoCAD of plans.***
- ✓ ***One (1) electronic PDF copy of Plans and Technical Specifications.***
- ✓ ***Final Engineer's estimate of probable construction cost.***
- ✓ ***Design Calculations in binder and electronic PDF format.***

SUBTASK 2.5 – BID PHASE SERVICES

Assist City during bid phase service. Tasks will include the following:

- ✓ Attend a pre-bid conference.
- ✓ Respond to inquiries/questions (RFIs) from bidders.
- ✓ Prepare addenda for bid documents as needed to clarify bidder inquiries and amend P/S as needed.
- ✓ Assist City, if requested, to review and evaluate bids.
- ✓ Prepare Conformed project documents for Construction (Issued for Construction or IFC).

Deliverables:

- ✓ ***Agenda for Pre-Bid Meeting***
 - ✓ ***Minutes of Pre-Bid Meeting***
 - ✓ ***Addenda as needed (Assume 2 Addenda)***
-

TASK 3 – DESIGN OF VFD UP-GRADE TO AERATORS AND BACK-UP POWER

This task includes the following components as part of design and construction.

- ✓ Electrical/Instrumentation Modifications to install VFDs on all Aerators. (Total of 17, 12 for existing Aeration Lagoon and five for New Aeration Lagoon constructed under Task 1 Projects.
 - ✓ Addition of emergency generator(s) to provide automatic uninterrupted back-up power for IWTF t for wastewater conveyance and treatment during a power outage.
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SUBTASK 3.1 PROJECT MANAGEMENT AND COORDINATION AND SRF FUNDING

APPLICATION – TECHNICAL PROJECT REPORT

SUBTASK 3.1.1 – PROJECT MANAGEMENT AND COORDINATION

E2 will provide effective management throughout the duration of the design work to ensure a finished project of the highest quality that is constructed within the budget and the time limits that have been established for this project. Collaboration and effective communication between the City and E2 will be crucial in meeting these goals. This will be facilitated through monthly coordination meetings over the duration of the project, beginning with a project commencement and user group meeting with City Engineering and Operations Staff. Key issues arising between monthly coordination meetings can be addressed by periodic conference calls. Minutes from monthly coordination meetings and documentation of consensus established for key issues will be provided by E2 on a timely basis. On the latter, a comment / comment resolution log will be kept memorializing decisions and actions taken.

Deliverables:

- ✓ **Minutes of meetings and teleconferences, report(s) of consensus established for key issues and other such documents and letters as are necessary for communication with City as work progresses to memorialize actions taken.**

SUBTASK 3.1.2 – SRF FUNDING APPLICATION - TECHNICAL SUPPORT

Support Carollo and the City in preparation of SRF Funding Application. This will include providing technical details to be incorporated within the Technical Project Report. The Technical Project Report will be prepared by Carollo.

SUBTASK 3.2 – PROJECT KICK-OFF MEETING AND SITE VISIT

E2 will attend a project commencement (Kick-Off) meeting with City Staff to discuss the project and meet with Operations and Maintenance Staff to discuss project requirements and goals. A site visit will be conducted following the kick-off meeting.

Deliverables:

- ✓ **Prepare Commencement Meeting Agenda and Report on Decisions Made and Follow-Up Actions required**

SUBTASK 3.3 – DATA GATHERING, INSPECTION AND REVIEW

E2 will with due diligence collect and review background project reports, records, data, maps, and other documents relevant to defining the objectives (intent??) and the scope of the project design. During the site visit following the kick-off meeting, and in other site visits as deemed appropriate, we will field verify as-built conditions and will make necessary modifications to the existing drawings of any variances observed during the field trip. We will arrange additional field trips during the design process to assure that proposed modifications meet the design intent and are constructible.

SUBTASK 3.4 – PLANS, SPECIFICATIONS & ESTIMATES

All designs prepared by E2 will be in accordance with City of Salinas Design and Construction Standards and other applicable standards, such as California Building, Electrical, Mechanical, Plumbing, and Fire Codes, Standard General Conditions of the Construction Contract documents to be provided by the City, and Caltrans Standard Plans and Specifications.

Drawings shall be prepared using the latest version of AutoCAD.

Technical Specifications will be developed using the current Construction Specifications Institute (CSI) document format and will include City front end bidding and contract documents.

The Work for Task 3 will be divided into three phases - 50% design package, 90% design package, and final bid documents.

SUBTASK 3.4.1 – FIFTY PERCENT (50%) DESIGN PACKAGE

The 50% level of completion submittal shall include: draft construction drawings for the Task 2 project component; an engineer's estimate of probable construction cost to 50% design level; a project schedule for all project Tasks; applicable support documentation for permits, and all other required documents.

Deliverables:

- ✓ ***An agenda for the design review meeting and minutes of the design review meeting.***
- ✓ ***One (1) PDF copy of half-size drawings.***
- ✓ ***One (1) PDF copy of Technical Specifications.***
- ✓ ***Engineer's estimate of probable construction cost to 50% design level.***

- ✓ ***Other required documents.***

SUBTASK 3.4.2 – NINETY- PERCENT (90%) DESIGN PACKAGE

The 90% submittal package will include: all documents in the 50% design submittal package further advanced and detailed and incorporation of City's comments from the 50% design submittal.

Deliverables:

- ✓ ***An agenda for the design review meeting and minutes of the design review meeting.***
- ✓ ***One (1) PDF Copy of half-size drawings.***
- ✓ ***One PDF Copy of Technical Specifications.***
- ✓ ***Engineer's estimate of probable construction cost to 90% design level.***
- ✓ ***Updated Client Comment / Comment Resolution log.***
- ✓ ***Other required documents.***

SUBTASK 3.4.3 – FINAL BID DOCUMENTS

With the final bid document submittal, all comments received from City on the 50% and 90% design submittals will be incorporated into the Plans and Specifications. The plans are field checked for accuracy and coordination between disciplines is completed. The technical specifications are complete and ready with the plans to advertise for Bid. Amendments to the City's front-end documents relevant to the specific design scope are submitted to the City. The engineer's estimate and project schedule are finalized. Final review is undertaken by the City. Anything discovered in this last review will be amended into the construction documents and the documents are now ready for public bid.

Deliverables:

- ✓ ***Comment / Comment Resolution log identifying responses to City comments on 60% and 95% design submittals and respective actions taken by E2.***
- ✓ ***One (1) electronic AutoCAD of plans.***
- ✓ ***One (1) electronic PDF copy of Plans and Technical Specifications.***
- ✓ ***Final Engineer's estimate of probable construction cost.***
- ✓ ***Design Calculations in binder and electronic PDF format.***

SUBTASK 3.5 – BID PHASE SERVICES

Assist City during bid phase service. Tasks will include the following:

- ✓ Attend a pre-bid conference.
- ✓ Respond to inquiries/questions (RFIs) from bidders.
- ✓ Prepare addenda for bid documents as needed to clarify bidder inquiries and amend P/S as needed.
- ✓ Assist City, if requested, to review and evaluate bids.
- ✓ Prepare Conformed project documents for Construction (Issued for Construction or IFC).

Deliverables:

- ✓ ***Agenda for Pre-Bid Meeting***
- ✓ ***Minutes of Pre-Bid Meeting***
- ✓ ***Addenda as needed (Assume 2 Addenda)***
- ✓ ***IFC Plans and Specifications***

ATTACHMENT B-1

City of Salinas - Engineering Services for Industrial Waste Treatment Facility Improvements - Task 1 - Design Improvements to Existing Aeration Lagoon and New Aeration Lagoon

ESTIMATE OF ENGINEERING SERVICES FEES - TASK 1 (Revised 5-22-2022)

Task No.	Task Description	E2 Consulting Engineers, Inc.							Frisch Engineering							Total Cost E2 + Frisch*1.10				
		Project Manager - Vinod	Technical Director - Joe Reichenberger	Principal Engineer - Loren Drew McIsyde	Specialist III - Bill Harris, Mark Davis	Specialist II - Priya Kumar	Total Labor Hours	Total Labor Cost	Other Direct Costs	Total Cost E2	Principal Engineer - Tom Frisch	Senior Engineer	Senior Designer	Junior Designer	Associate Designer		Total Labor Hours	Total Labor Cost	Other Direct Costs	Total Cost
	Hourly Rate	\$ 240.00	\$ 200.00	\$ 175.00	\$ 125.00	\$ 80.00				\$230.00	\$215.00	\$185.00	\$160.00	\$130.00						
1	Design Improvements to Existing Aeration Lagoon and New Aeration Lagoon																			
1.1.1	Project Management and Coordination	40		24		20	84	\$ 15,400	\$ -	\$15,400	8	4			12	\$2,700		\$2,700	\$ 18,370	
1.1.2	SRF Funding Application - Technical Support	40	16	40			96	\$ 19,800	\$ -	\$19,800	16	4			20	\$4,540		\$4,540	\$ 24,794	
1.2	Project Kick-off Meeting and Site Visit	12		12			24	\$ 4,980	\$ 300	\$5,280	12	4			16	\$3,620	\$300	\$3,920	\$ 9,592	
1.3	Data Gathering, Inspection, Field Surveying and Review	8		16	18		42	\$ 6,970	\$ 10,000	\$17,970			8		24	\$4,720		\$4,720	\$ 23,162	
1.4	Plans, Specifications and Estimates	224	140	528	576	0	1468	\$ 246,160	\$ 500	\$ 246,660	116	164	232	415.5	114	1041.5	\$ 186,160	\$ 600	\$ 186,760	\$ 452,096
1.4.1	Thirty Percent Design Package - BODR	20	52	128	96	0	296	\$ 49,600	\$ -	\$49,600	8	28	40	76	18	170	\$29,680		\$29,680	\$ 82,248
1.4.2	Sixty Percent Design Package	120	40	200	200		560	\$ 96,800	\$ 500	\$97,300	60	60	108	188	48	464	\$83,000	\$600	\$83,600	\$ 189,260
1.4.3	Ninety-Five Percent Design Package	60	40	120	200		420	\$ 68,400	\$ -	\$68,400	32	60	60	104	32	288	\$52,160		\$52,160	\$ 125,776
1.4.4	Final Bid Documents	24	8	80	80		192	\$ 31,360	\$ -	\$31,360	16	16	24	48	16	120	\$21,320		\$21,320	\$ 54,812
1.5	Bid Phase Services	26	0	64	16	0	106	\$ 19,440	\$ 250	\$ 19,690	12	20	0	24	0	56	\$ 10,900	\$ 900	\$ 11,800	\$ 32,670
1.5.1	Attend Pre-Bid Conference	8		8			16	\$ 3,320	\$ -	\$3,320	12				12	\$2,760	\$600	\$3,360	\$ 7,016	
1.5.2	Respond to Inquiries/Questions from Bidders	8		24			32	\$ 6,120	\$ -	\$6,120		8		8	16	\$3,000		\$3,000	\$ 9,420	
1.5.3	Prepare Addenda for Bid Documents	4		24			28	\$ 5,160	\$ -	\$5,160		8		8	16	\$3,000		\$3,000	\$ 8,460	
1.5.4	Assist City to review and evaluate Bids	4		0			4	\$ 960	\$ -	\$960					0	\$0		\$0	\$ 960	
1.5.5	Prepare Conformed Project Documents for Construction	2		8	16		26	\$ 3,880	\$ 250	\$4,130		4		8	12	\$2,140	\$300	\$2,440	\$ 6,814	
	Total for Task 1	350	156	684	610	20	1820	\$ 312,750	\$ 11,050	\$ 324,800	164	212	232	447.5	114	1170	\$ 212,640	\$ 1,800	\$ 214,440	\$ 560,684

ATTACHMENT B-2																				
City of Salinas - Engineering Services for Industrial Waste Treatment Facility Improvements -Task 2 - Design of Pond Automation and Flow Distribution and Pond 3 Pump station Up-grade																				
ESTIMATE OF ENGINEERING SERVICES FEES - TASK 2																				
Task No.	Task Description	E2 Consulting Engineers, Inc.									Frisch Engineering							Total Cost E2 + Frisch*1.10		
		Project Manager-Vinod Badani	Technical Director - Joe Reichenberger	Principal Engineer - Loren Weinbrenner	Specialist II-Bill Harris, Mark Davis	Specialist II - Priya Kumar	Total Labor Hours	Total Labor Cost	Other Direct Costs	Total Cost E2	Principal Engineer	Senior Engineer	Senior Designer	Junior Designer	Associate Designer	Total Labor Hours	Total Labor Cost		Other Direct Costs	Total Cost
Hourly Rate	\$ 240.00	\$ 200.00	\$ 175.00	\$ 125.00	\$ 80.00					\$230.00	\$215.00	\$185.00	\$160.00	\$130.00						
2	Design of Pond Automation and Flow Distribution and Pond 3 Pump Station Up-Grade																			
2.1.1	Project Management and Coordination	24				24	48	\$ 7,680	\$ -	\$ 7,680		8			8	\$ 1,720		\$ 1,720	\$ 9,572	
2.1.2	SRF Funding Application - Technical Support	16		16			32	\$ 6,640	\$ -	\$ 6,640	12	4			16	\$ 3,620		\$ 3,620	\$ 10,622	
2.2	Project Kick-off Meeting and Site Visit	8		12			20	\$ 4,020	\$ 300	\$ 4,320	12	4			16	\$ 3,620	\$ 300	\$ 3,920	\$ 8,632	
2.3	Data Gathering, Inspection, Field Surveying and Review	8		8			16	\$ 3,320	\$ 6,000	\$ 9,920	4	16		4	24	\$ 5,000		\$ 5,000	\$ 15,420	
2.4	Plans, Specifications and Estimates	136	16	280	320	0	752	\$ 124,840	\$ -	\$ 124,840	80	88	56	116	24	364	\$ 69,360	\$ 200	\$ 69,560	\$ 201,356
2.4.1	Fifty Percent Design Package	60	8	120	160	0	348	\$ 57,000	\$ -	\$ 57,000	32	40	24	40	8	144	\$ 27,840	\$ 200	\$ 28,040	\$ 87,844
2.4.2	Ninety Five Percent Design Package	60		80	120		260	\$ 43,400	\$ -	\$ 43,400	24	24	32	60	16	156	\$ 28,280		\$ 28,280	\$ 74,508
2.4.3	Final Bid Documents	16	8	80	40		144	\$ 24,440	\$ -	\$ 24,440	24	24		16	64	\$ 13,240		\$ 13,240	\$ 39,004	
2.5	Bid Phase Services	24	0	64	24	0	112	\$ 19,960	\$ 650	\$ 20,610	12	20	0	24	0	56	\$ 10,900	\$ 500	\$ 11,400	\$ 33,150
2.5.1	Attend Pre-Bid Conference			16			16	\$ 2,800	\$ 150	\$ 2,950	12				12	\$ 2,760	\$ 300	\$ 3,060	\$ 6,316	
2.5.2	Respond to Inquiries/Questions from Bidders	8		16			24	\$ 4,720	\$ -	\$ 4,720		8		8	16	\$ 3,000		\$ 3,000	\$ 8,020	
2.5.3	Prepare Addenda for Bid Documents	8		24			32	\$ 6,120	\$ -	\$ 6,120		8		8	16	\$ 3,000		\$ 3,000	\$ 9,420	
2.5.4	Assist City to review and evaluate Bids	4					4	\$ 960	\$ -	\$ 960					0	\$ 0		\$ 0	\$ 960	
2.5.5	Prepare Conformed Project Documents for Construction	4		8	24		36	\$ 5,360	\$ 500	\$ 5,860		4		8	12	\$ 2,140	\$ 200	\$ 2,340	\$ 8,434	
	Total for Task 2	216	16	380	344	24	980	\$ 166,460	\$ 6,950	\$ 174,010	120	140	56	144	24	484	\$ 94,220	\$ 1,000	\$ 95,220	\$ 278,752

ATTACHMENT B-3																				
City of Salinas - Engineering Services for Industrial Waste Treatment Facility - Design of Aeration VFD Up-Grade and Back-Up Power																				
ESTIMATE OF ENGINEERING SERVICES FEES - TASK 3																				
Task No.	Task Description	E2 Consulting Engineers, Inc.										Frisch Engineering							Total Cost E2 + Frisch*1.10	
		Project Manager-Vinod	Technical Director - Joe Reichenberger	Principal Engineer-Loren	Specialist III - Bill	Specialist II - Iona	Total Labor Hours	Total Labor Cost	Other Direct Costs	Total Cost E2	Principal Engineer	Senior Engineer	Senior Designer	Junior Designer	Associate Designer	Total Labor Hours	Total Labor Cost	Other Direct Costs		Total Cost
	Hourly Rate	\$ 240.00	\$ 200.00	\$ 175.00	\$ 125.00	\$ 80.00								\$230.00	\$215.00	#####	\$160.00	\$130.00		
3	Design Aeration VFD Up-Grade and Back-Up Power																			
	3.1.1 - Project Management and Coordination	8				12	20	\$ 2,880	\$ -	\$2,880	8	4			12	\$2,700			\$2,700	\$ 5,850
	3.1.2 - SRF Funding Application - Technical Support										16	4								
	3.2 - Project Kick-off/Workshop Meeting and Site Visit	4		4			8	\$ 1,660	\$ -	\$1,660	12	4			16	\$3,620	\$300		\$3,920	\$ 5,972
	3.3 - Data Gathering, Inspection and Review	4		4			8	\$ 1,660	\$ -	\$1,660		16		8	24	\$4,720			\$4,720	\$ 6,852
	3.4 - Plans, Specifications and Estimates	164	40	240	280	0	724	\$ 124,360	\$ -	\$ 124,360	88	88	128	208	48	560	\$ 102,360	\$ 600	\$ 102,960	\$ 237,616
	3.4.1 - Fifty Percent Design Package	80	16	120	160	0	376	\$ 63,400	\$ -	\$63,400	40	40	80	120	32	312	\$55,960	\$600	\$56,560	\$ 125,616
	3.4.2 - Ninety Five Percent Design Package	60	8	80	80		228	\$ 40,000	\$ -	\$40,000	40	40	40	80	8	208	\$39,040		\$39,040	\$ 82,944
	3.4.3 - Final Bid Documents	24	16	40	40		120	\$ 20,960	\$ -	\$20,960	8	8	8	8	8	40	\$7,360		\$7,360	\$ 29,056
	3.5 - Bid Phase Services	32	0	48	16	0	96	\$ 18,080	\$ 250	\$ 18,330	20	24	0	32	0	76	\$ 14,880	\$ 500	\$ 15,380	\$ 35,248
	3.5.1 - Attend Pre-Bid Conference	8		8			16	\$ 3,320		\$3,320	8				8	\$1,840	\$300	\$2,140	\$ 5,674	
	3.5.2 - Respond to Inquiries/Questions from Bidders	8		16			24	\$ 4,720	\$ -	\$4,720	4	8		8	20	\$3,920		\$3,920	\$ 9,032	
	3.5.3 - Prepare Addenda for Bid Documents	8		16			24	\$ 4,720	\$ -	\$4,720	4	8		8	20	\$3,920		\$3,920	\$ 9,032	
	3.5.4 - Assist City to review and evaluate Bids	4					4	\$ 960	\$ -	\$960					0	\$0		\$0	\$ 960	
	3.5.5 - Prepare Conformed Project Documents for Construction	4		8	16		28	\$ 4,360	\$ 250	\$4,610	4	8		16	28	\$5,200	\$200	\$5,400	\$ 10,550	
	Total for Task 3	212	40	296	296	12	856	\$ 148,640	\$ 250	\$ 148,890	144	140	128	248	48	688	\$ 128,280	\$ 1,400	\$ 129,680	\$ 291,538

Exhibit B-1**E2 Consulting Engineers, Inc.
Schedule of Professional Rates***for***City of Salinas****Industrial Waste Treatment Facility- Improvements****January 1, 2022, through December 31, 2023**

Classification	Hourly Billing Rate
Engineers	
Engineer	\$ 125.00
Engineer, Principal	\$ 135.00
Engineer, Supervising (Loren Weinbrenner, Drew McIntyre)	\$ 185.00
Project Managers/Technical Managers	
Technical Specialist (Joe Reichenberger)	\$ 200.00
Project Manager/ Principal-In-Charge (Vinod Badani)	\$ 240.00
Technical and Support	
Specialist II (Accounting Staff)	\$ 80.00
Specialist III (CADD Operator) Bill Harris, Mark Davis	\$ 125.00
GIS Data Base Manager	\$ 170.00

This schedule of professional rates is subject to revision annually. These billing rates cover salary costs, employee benefits, ordinary overhead, and profit. They also cover in-house charges for personal computers (other than CAD and GIS), word processing equipment, and routine communications (including long-distance telephone and fax). Out-of-pocket costs (such as travel and subsistence) are reimbursable at actual cost-plus 10 percent.

Exhibit B-2

**Frisch Engineers, Inc.
Schedule of Professional Rates**

for

City of Salinas

Industrial Waste Treatment Facility-Improvements

January 1, 2021, through December 31, 2023

Classification	Hourly Billing Rate
Engineers	
Principal Engineer	\$ 230.00
Senior Engineer	\$215.00
Designers	
Senior Designer	\$ 185.00
Junior Designer	\$ 160.00
Associate Designer	\$ 130.00

July 19, 2023

Mr. Brian Frus, PE

Water, Waste and Energy Division Manager

City of Salinas Public Works Department

200 Lincoln Avenue

Salinas, CA 93901

Subject: Additional Engineering Services for Improvements to IWTF
Amendment No. 1 –Additional Components to Extend Distribution Pipeline to Salinas Pond
3 Pump Station

Dear Brian,

E2 Consulting Engineers, Inc. (E2) has developed engineering costs to provide design and bid phase services to extend distribution pipeline to the existing Salinas Pond 3 Pump Station (SP3PS). Scope of services to be provided under this Amendment are summarized below:

1. Extend Distribution Pipeline to Salinas Pond 3 Pump Station and revise hydraulics as required.
2. Make provision in distribution pipeline for future construction of Weir Structure No. 37B.
3. Delete construction of Pond 3 Forebay. This includes deletion of the following elements.
 - a. Weir Structure No. 37B
 - b. New Berm Road
 - c. Pond 3 Inlet Structure
 - d. Deletion of Solar Panel Platforms at Weir Structure Nos. 37A, 37B, 29, 30, 35A and 39.
4. Locate new Pump in western slot (P-430).
5. Modify Valve vault.
6. Modify pump station wet well and Valve Vault for distribution pipeline extension. Do not raise the top of existing pump station and valve vault 2-feet above 100-year flood level.
7. Revise Plan and Profile Drawings as required.
8. Modify Electrical and Instrumentation Drawings as required to accommodate items 2, 2 and 4 described above.
9. Revise project manual to accommodate changes listed in this Amendment No. 1
10. Revise construction cost estimates with changes listed in the Amendment No. 1

Estimated engineering costs to provide design and bid phase services is provided in Attachment A, included with this letter.

Thank you very much. If you need additional information, please contact me at 510-754-6560.

Vinod M. Badani, P.E.

Vinod Badani

Vice President

ATTACHMENT A

City of Salinas - Engineering Services for Industrial Waste Treatment Facility - Design Upgrade - Amendment 1

ESTIMATE OF ENGINEERING SERVICES FEES - Amendment No. 1

Task No.	Task Description	E2 Consulting Engineers, Inc.									Frisch Engineering									Total Cost E2 + Frisch*1.10			
		Project Manager- Vinod	Technical Director - Joe Reichenberger	Principal Engineer- Loren and Drew	Specialist III-Bill	Specialist II - Priya	Total Labor Hours	Total Labor Cost	Other Direct Costs	Total Cost E2	Principal Engineer	Senior Engineer	Associate Engineer	Senior Designer	Junior Designer	Associate Designer	Total Labor Hours	Total Labor Cost	Other Direct Costs		Total Cost		
Hourly Rate		\$ 240.00	\$ 200.00	\$ 175.00	\$ 125.00	\$80.00																	
1	Design Upgrade																						
	1 - Project Management and Coordination	24				12	36	\$ 6,720	\$ -	\$6,720	4	4					8	\$1,780		\$1,780	\$ 8,678		
	2 - Project Meetings	16		16			32	\$ 6,640	\$ -	\$6,640	8	4					12	\$2,700		\$2,700	\$ 9,610		
	4 - Plans, Specifications and Estimates	116	0	180	200	0	496	\$ 84,340	\$ -	\$ 84,340	32	0	0	24	40	32	128	\$ 22,360	\$ -	\$ 22,360	\$ 108,936		
	4.1 - Fifty Percent Design Package	60		80	80	0	220	\$ 38,400	\$ -	\$38,400	16			8	16	16	56	\$9,800		\$9,800	\$ 49,180		
	4.2 - Ninety Five Percent Design Package	40		60	80		180	\$ 30,100	\$ -	\$30,100	8			8	16	8	40	\$6,920		\$6,920	\$ 37,712		
	4.3 - Final Bid Documents	16		40	40		96	\$ 15,840	\$ -	\$15,840	8			8	8	8	32	\$5,640		\$5,640	\$ 22,044		
	5 - Bid Phase Services	12	0	12	8	0	32	\$ 5,980	\$ -	\$ 5,980	8	4	0	0	12	0	24	\$ 4,620	\$ -	\$ 4,620	\$ 11,062		
	5.1 - Attend Pre-Bid Conference	0		0			0	\$ -		\$0	0						0	\$0		\$0	\$ -		
	5.2 - Respond to Inquiries/Questions from Bidders	4		4			8	\$ 1,660	\$ -	\$1,660	4				4		8	\$1,560		\$1,560	\$ 3,376		
	5.3 - Prepare Addenda for Bid Documents	4		4			8	\$ 1,660	\$ -	\$1,660	4				4		8	\$1,560		\$1,560	\$ 3,376		
	5.4 - Assist City to review and evaluate Bids						0	\$ -	\$ -	\$0							0	\$0		\$0	\$ -		
	5.5 - Prepare Conformed Project Documents for Construction	4		4	8		16	\$ 2,660		\$2,660		4			4		8	\$1,500		\$1,500	\$ 4,310		
	Total for Task 1	168	0	208	208	12	596	\$ 103,680	\$ -	103680	52	12	0	24	52	32	172	\$ 31,460	\$ -	\$ 31,460	\$ 138,286		