

# AGREEMENT BETWEEN OWNER AND ENGINEER FOR PROFESSIONAL SERVICES

Prepared by



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FOR PROFESSIONAL SERVICES**

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## **AGREEMENT BETWEEN OWNER AND ENGINEER FOR PROFESSIONAL SERVICES**

This is an Agreement between **Central Iron County Water Conservancy District** (Owner) and **Sunrise Engineering, Inc.** (Engineer). Owner's Project, of which Engineer's services under this Agreement are a part, is generally identified as **CICWCD WIP2022 Concrete Tanks** (Project). Other terms used in this Agreement are defined in Article 7. Engineer's services under this Agreement are generally identified as **the provision of engineering design services for two reinforced concrete culinary water tanks (one referred to as the 8-Mile Hills Tank, anticipated to be a 4.0MG AWWA D115 tendon-prestressed concrete tank, the other referred to as the Cedar Highlands Tank, anticipated to be a 0.5MG conventionally reinforced concrete tank) and an above-ground control valve room or vault with a contiguous chlorination room, including piping between the tank and vault, at the 8-Mile Hills Tank, together with site and access improvements for each of the two tanks, and the preparation of Drawings, Specifications, draft Bidding/Proposal Documents, and draft Front-End Construction Contract Documents for the proposed improvements. Except for the pipeline between the tank and vault at the 8-Mile Hills Tank, other tank site transmission and distribution pipeline design is not included in Engineer's services.**

Owner and Engineer further agree as follows:

### **ARTICLE 1—SERVICES OF ENGINEER**

#### 1.01 Scope

- A. Engineer shall provide, or cause to be provided, the services set forth herein and in Exhibit A.
- B. All phases of service will include Management of Engineering Services as shown in Exhibit A.

### **ARTICLE 2—OWNER'S RESPONSIBILITIES**

#### 2.01 Project Information

- A. To the extent Owner has not already provided the following, or has new, additional, or revised information from that previously provided, Owner shall provide Engineer with information and data needed by Engineer in the performance of Basic and Additional Services, including Owner's:
  - 1. design objectives and constraints;
  - 2. space, capacity, and performance requirements;
  - 3. flexibility and expandability needs;
  - 4. design and construction standards;
  - 5. budgetary limitations; and
  - 6. any other available information pertinent to the Project including reports and data relative to previous designs, construction, or investigation at or adjacent to the Site.
- B. Following Engineer's assessment of initially-available Project information and data and upon Engineer's request, Owner shall obtain, furnish, or otherwise make available (if necessary through retention of specialists or consultants) such additional Project-related information and data as is reasonably required to enable Engineer to complete its Basic and Additional Services; or, with consent of Engineer, Owner may authorize the Engineer to obtain or

provide all or part of such additional information as Additional Services. Such additional information or data may include the following:

1. Property descriptions.
  2. Zoning, deed, and other land use restrictions.
  3. Surveys, topographic mapping, and utility documentation.
  4. Property, boundary, easement, right-of-way, and other special surveys or data, including establishing relevant reference points.
  5. Explorations and tests of subsurface conditions at or adjacent to the Site; geotechnical reports and investigations; drawings of physical conditions relating to existing surface or subsurface structures at the Site; hydrographic surveys, laboratory tests and inspections of samples, materials, and equipment; appropriate professional interpretation of such information or data.
  6. Environmental assessments, audits, investigations, and impact statements, and other relevant environmental, historical, or cultural studies relevant to the Project, the Site, and adjacent areas.
  7. Data or consultations as required for the Project but not otherwise identified in this Agreement.
- C. Owner shall examine all alternative solutions, studies, reports, sketches, Drawings, Specifications, proposals, and other documents presented by Engineer (including obtaining advice of an attorney, risk manager, insurance counselor, financial/municipal advisor, and other advisors or consultants as Owner deems appropriate with respect to such examination) and render in writing timely decisions pertaining thereto.
- D. Owner shall furnish to Engineer data as to Owner's anticipated costs for services to be provided to Owner by others (including, but not limited to, accounting, bond and financial, independent cost estimating, insurance counseling, and legal advice) so that Engineer may assist Owner in collating the various cost categories that comprise Total Project Costs.
- E. Owner shall advise Engineer if any invention, design, process, product, or device that Owner has requested, required, or recommended for inclusion in the Drawings or Specifications will be subject to payment (whether by Owner or Contractor) of any license fee or royalty to others, as required by patent rights or copyrights.
- F. Owner shall inform Engineer as to whether Engineer's assistance is requested with respect to Owner's evaluation of the possible use of Project Strategies, Technologies, and Techniques, as defined in Exhibit A.
- G. Owner shall inform Engineer as to whether Engineer's assistance is requested in identifying opportunities for enhancing the sustainability of the Project.
- 2.02 Owner's Instructions Regarding Bidding/Proposal and Front-End Construction Contract Documents
- A. Owner shall give instructions to Engineer regarding Owner's procurement of construction services (including instructions regarding advertisements for bids, instructions to bidders, and requests for proposals, as applicable) and Owner's construction contract practices and

requirements, and furnish to Engineer (or give specific directions requesting Engineer to use copies already in Engineer's possession) the following:

1. Owner's standard contract forms, general conditions (if other than the current edition of EJCDC® C-700, Standard General Conditions of the Construction Contract), supplementary conditions, text, and related documents and content for Engineer to include in the draft Bidding/Proposal Documents, and in draft Front-End Construction Contract Documents;
  2. insurance and bonding requirements;
  3. protocols for electronic transmittals during bidding and construction;
  4. Owner's safety and security programs applicable to Contractor and other Constructors;
  5. diversity and other social responsibility requirements;
  6. bidding and contract requirements of funding, financing, or regulatory entities;
  7. other specific conditions applicable to the procurement of construction or contract documents;
  8. any other information necessary for Engineer to assist Owner in preparing its Bidding/Proposal Documents and Front-End Construction Contract Documents.
- B. Owner shall have responsibility for the final content of (1) such Bidding/Proposal Documents, and (2) such Front-End Construction Contract Documents, other than content furnished by Engineer concerning the design (as set forth in the Drawings, Specifications, or otherwise) or other engineering or technical matters.
1. Owner shall seek the advice of Owner's legal counsel, risk managers, and insurance advisors with respect to the drafting and content of such documents.
- C. If there will be an advertisement soliciting bids for construction, Owner shall place and pay for such advertisement.

### 2.03 Owner-Furnished Services

- A. Recognizing and acknowledging that Engineer's services and expertise do not include the following services, Owner shall obtain, as required for the Project:
1. Accounting, bond and financial advisory services (including, if applicable, "municipal advisor" services as described in Section 975 of the Dodd-Frank Wall Street Reform and Consumer Protection Act (2010) and the municipal advisor registration rules issued by the Securities and Exchange Commission), independent cost estimating, and insurance counseling services.
  2. Legal services, including attorney review of proposed Construction Contract Documents, legal services required by Owner, legal services needed as a result of issues raised by Contractor, and Project-related legal services reasonably requested by Engineer.
  3. Auditing services, including those needed by Owner to ascertain how or for what purpose Contractor has used money paid to it.
- B. Owner shall provide the services of an independent testing laboratory to perform all inspections, tests, and approvals of samples, materials, and equipment required by the

Construction Contract Documents (other than those required to be furnished or arranged by Contractor), or to evaluate the performance of materials, equipment, and facilities of Owner, prior to their incorporation into the Work with appropriate professional interpretation thereof. Owner shall provide Engineer with the findings and reports generated by testing laboratories, including findings and reports obtained from or through Contractor.

- C. Owner shall acquire or arrange for acquisition of the Site(s) and any temporary or permanent rights of access, easements, or property rights needed for the Project.
- D. With respect to the portions or phases of the Project designed or specified by Engineer, Owner shall provide, obtain, or arrange for:
  - 1. all required reviews, approvals, consents, and permits from governmental authorities having jurisdiction, and
  - 2. such reviews, approvals, and consents from others as may be necessary for completion of each portion or phase of the Project.
- E. Owner may delegate to Contractor or others the responsibilities set forth in Paragraphs 2.03.C and D.

#### 2.04 Owner's General Responsibilities

- A. Owner shall inform Engineer of the policies, procedures, and requirements of Owner that are applicable to Engineer's performance of services under this Agreement.
- B. Owner shall provide Engineer with Owner's budget for the Project, including type and source of funding to be used, and will promptly inform Engineer if the budget or funding sources change.
- C. Owner shall inform Engineer in writing of any safety or security programs that are applicable to the personnel of Engineer, its Subconsultants, and Engineer's Subcontractors, as they visit the Site or otherwise perform services under this Agreement.
- D. Owner shall arrange for safe access to and make all provisions for Engineer to enter upon public and private property as required for Engineer to perform services under this Agreement.
- E. Owner shall provide necessary direction and make decisions, including prompt review of Engineer's submittals, and carry out its other responsibilities in a timely manner so as not to delay Engineer's performance of its services.
- F. Owner shall be responsible for all requirements and instructions that it furnishes to Engineer pursuant to this Agreement, and for the accuracy and completeness of all programs, reports, data, and other information furnished by Owner to Engineer pursuant to this Agreement. Engineer may use and rely upon such requirements, programs, instructions, reports, data, and information in performing or furnishing services under this Agreement, subject to any express limitations or reservations applicable to the furnished items.
- G. Owner shall give prompt written notice to Engineer whenever Owner observes or otherwise becomes aware of:
  - 1. any development that affects the scope or time of performance of Engineer's services;
  - 2. the presence at the Site of any Constituent of Concern; or

3. any relevant, material defect or nonconformance in: (a) Engineer's services, (b) the Work, (c) the performance of any Constructor, or (d) Owner's performance of its responsibilities under this Agreement.
- H. Owner shall advise Engineer of the identity and scope of services of any independent consultants employed by Owner to perform or furnish services in regard to the Project, including, but not limited to, cost estimating, project peer review, value engineering, and constructability review.
- I. If Owner designates a construction manager, site representative, or any individual or entity other than, or in addition to, Engineer to represent Owner at the Site, Owner shall define and set forth as an exhibit to this Agreement the duties, responsibilities, and limitations of authority of such other party and the relation thereof to the duties, responsibilities, and authority of Engineer.
- J. Owner shall:
1. Attend and participate in the pre-bid conference, bid opening, pre-construction conferences, construction progress and other job-related meetings, and Site visits to determine Substantial Completion and readiness of the completed Work for final payment.
  2. Primarily communicate with Engineer's Subcontractors and Subconsultants through the Engineer.
    - a. Promptly inform Engineer of the substance of any communications between Owner and Engineer's Subcontractors or Subconsultants.
    - b. Refrain from directing the services of Engineer's Subcontractors or Subconsultants.
  3. Authorize Engineer to provide Additional Services as set forth in Article 2 of Exhibit A of the Agreement, as required.
  4. Perform or provide the following:
    - a. **Administration of the Bidding/Proposal Phase of the Project.**
    - b. **Administration of the Construction Phase of the Project.**
    - c. **Resident Project Representative services.**
    - d. **Administration of the Post-Construction Phase of the Project.**

2.05 Payment

- A. Owner shall pay Engineer as set forth in Article 4 and Exhibit J.
- B. Engineer's compensation is summarized as follows; if there is a conflict between the following summary and the contents of Exhibit J, then Exhibit J will prevail.

Description of Service		Amount	Basis of Compensation
1.	Basic Services (Article 1 of Exhibit A)	\$187,300.00	LUMP SUM
2.	Resident Project Representative Services	NOT USED	NOT USED
3.	Additional Services (Article 2 of Exhibit A)	TO BE DETERMINED	HOURLY RATES

1. Compensation items and totals based in whole or in part on Hourly Rates, Direct Labor, or Percentage of Construction Cost are estimates only.
  2. Lump sum amounts incorporate Engineer's labor, overhead, profit, and Engineer's Subcontractor and Subconsultants' charges.
- C. Engineer's construction-phase services, if any are to be performed or provided under this Agreement, are based on a **six**-month continuous construction period.

### **ARTICLE 3—SCHEDULE FOR RENDERING SERVICES**

#### 3.01 Commencement

- A. Engineer is authorized to begin rendering services as of the Effective Date.

#### 3.02 Time for Completion

- A. Engineer shall complete its obligations within a reasonable time. Specific periods of time for rendering services, or specific dates by which services are to be completed, are provided in Exhibit B, and are hereby agreed to be reasonable.
- B. If, through no fault of Engineer, such periods of time or dates are changed, or the orderly and continuous progress of Engineer's services is impaired, or Engineer's services are delayed or suspended, then the time for completion of Engineer's services, and the rates and amounts of Engineer's compensation, will be adjusted equitably.
- C. If Owner authorizes changes in the scope, extent, or character of the Project or Engineer's services, then the time for completion of Engineer's services, and the rates and amounts of Engineer's compensation, will be adjusted equitably.
- D. If Engineer fails, for reasons within control of Engineer, to complete the performance required in this Agreement within the time set forth, as duly adjusted, then Owner shall be entitled, as its sole remedy, to the recovery of direct damages to the extent, if any, resulting from such failure by Engineer.

### **ARTICLE 4—INVOICES AND PAYMENTS**

#### 4.01 Invoices

- A. Preparation and Submittal of Invoices: Engineer shall prepare invoices in accordance with its standard invoicing practices, the progress reporting and special invoicing requirements (if any) in Exhibit A Paragraph 1.01.A, and the terms of Exhibit J. Engineer shall submit its invoices to Owner on a monthly basis. Invoices are due and payable within 30 days of receipt.

#### 4.02 Payments

- A. Application to Interest and Principal: Payment will be credited first to any interest owed to Engineer and then to principal.
- B. Disputed Invoices: If Owner disputes an invoice, either as to amount or entitlement, then Owner shall promptly advise Engineer in writing of the specific basis for doing so; may withhold only that portion so disputed; and must pay the undisputed portion, subject to the terms of Paragraph 4.01. After a disputed item has been resolved, Engineer shall include the agreed-upon amount on a new invoice.

- C. Failure to Pay: If Owner fails to make any undisputed payment due Engineer within 30 days after receipt of Engineer's invoice, then:
  - 1. amounts due Engineer will be increased at the rate of 1.0% per month (or the maximum rate of interest permitted by law, if less) from said thirtieth day, and
  - 2. Engineer may, after giving 7 days' written notice to Owner, suspend services under this Agreement until Owner has paid in full amounts due. Owner waives any and all claims against Engineer for any such suspension.
- D. Sales or Use Taxes: If after the Effective Date any governmental entity takes an action that imposes additional sales or use taxes on Engineer's services or compensation under this Agreement, then Engineer may invoice such additional sales or use taxes for reimbursement by Owner. Owner shall reimburse Engineer for the cost of such invoiced additional sales or use taxes; such reimbursement will be in addition to the compensation to which Engineer is entitled under the terms of Exhibit J.

## **ARTICLE 5—OPINIONS OF COST**

### **5.01 Opinions of Probable Construction Cost**

- A. Engineer's opinions of probable Construction Cost (if any) are to be made on the basis of Engineer's experience, qualifications, and general familiarity with the construction industry. However, because Engineer has no control over the cost of labor, materials, equipment, or services furnished by others, or over contractors' methods of determining prices, or over competitive bidding or market conditions, Engineer cannot and does not guarantee that proposals, bids, or actual Construction Cost will not vary from opinions of probable Construction Cost prepared by Engineer. If Owner requires greater assurance as to probable Construction Cost, then Owner agrees to obtain an independent cost estimate.

### **5.02 Opinions of Total Project Costs**

- A. The services, if any, of Engineer with respect to Total Project Costs will be limited to assisting the Owner in tabulating the various categories that comprise Total Project Costs. Engineer assumes no responsibility for the accuracy of any opinions of Total Project Costs.

## **ARTICLE 6—GENERAL CONSIDERATIONS**

### **6.01 Standards of Performance**

- A. Standard of Care: The standard of care for all professional engineering and related services performed or furnished by Engineer under this Agreement will be the care and skill ordinarily used by members of the subject profession practicing under similar circumstances at the same time and in the same locality. Engineer makes no warranties, express or implied, under this Agreement or otherwise, in connection with any services performed or furnished by Engineer.
- B. Technical Accuracy: Owner shall not be responsible for discovering deficiencies in the technical accuracy of Engineer's services. Engineer shall correct deficiencies in technical accuracy without additional compensation, unless such corrective action is directly attributable to deficiencies in Owner-furnished information.

- C. Engineer's Subcontractors and Subconsultants: Engineer may retain such Engineer's Subcontractors and Subconsultants as Engineer deems necessary to assist in the performance or furnishing of the services, subject to reasonable, timely, and substantive objections by Owner.
- D. Reliance on Others: Subject to the standard of care set forth in Paragraph 6.01.A, Engineer may use or rely upon design elements and information ordinarily or customarily furnished by others, including, but not limited to, specialty contractors, manufacturers, suppliers, and the publishers of technical standards.
- E. Compliance with Laws and Regulations, and Policies and Procedures
  - 1. Engineer and Owner shall comply with applicable Laws and Regulations.
  - 2. Engineer shall comply with the policies, procedures, and instructions of Owner that are applicable to Engineer's performance of services under this Agreement and that Owner provides to Engineer in writing, subject to the standard of care set forth in Paragraph 6.01.A, and to the extent compliance is not inconsistent with professional practice requirements.
  - 3. This Agreement is based on Laws and Regulations and Owner-provided written policies and procedures as of the Effective Date. The following may be the basis for modifications to Owner's responsibilities or to Engineer's scope of services, times of performance, or compensation:
    - a. changes after the Effective Date to Laws and Regulations,
    - b. the receipt by Engineer after the Effective Date of Owner-provided written policies and procedures, and
    - c. changes after the Effective Date to Owner-provided written policies or procedures.
- F. General Conditions of Construction Contract: The general conditions for any Construction Contract Documents prepared hereunder are to be the current edition of EJCDC® C-700, Standard General Conditions of the Construction Contract, prepared by the Engineers Joint Contract Documents Committee, unless expressly indicated otherwise.
- G. Copies of Drawings and Specifications: If Engineer is required to prepare or furnish Drawings or Specifications under this Agreement, Engineer shall deliver to Owner at least one complete electronic copy of such Drawings and Specifications, signed and sealed according to applicable Laws and Regulations, and one complete printed copy, duly signed and sealed.
- H. Engineer shall not be required to sign any document, no matter by whom requested, that would result in Engineer having to certify, guarantee, or warrant conditions whose existence Engineer cannot ascertain within the authorized scope of Engineer's services. Owner agrees not to make resolution of any dispute with Engineer or payment of any amount due to Engineer in any way contingent upon Engineer signing any such document.
- I. Engineer shall not at any time supervise, direct, control, or have authority over any Constructor's work, nor will Engineer have authority over or be responsible for the means, methods, techniques, sequences, or procedures of construction selected or used by any Constructor, or the safety precautions and programs incident thereto, for security or safety at the Site, nor for any failure of a Constructor to comply with Laws and Regulations

applicable to that Constructor's furnishing and performing of its work. Engineer shall not be responsible for the acts or omissions of any Constructor.

- J. Engineer neither guarantees the performance of any Constructor nor assumes responsibility for any Constructor's failure to furnish and perform the Work in accordance with the Construction Contract Documents.
- K. Engineer shall not be responsible for any decision made regarding the Construction Contract Documents, or any application, interpretation, clarification, or modification of the Construction Contract Documents, other than those made by Engineer.
- L. Engineer is not required to provide and does not have any responsibility for surety bonding or insurance-related advice, recommendations, counseling, or research, or enforcement of construction insurance or surety bonding requirements.
- M. Engineer's services do not include providing legal advice or representation.
- N. Engineer's services do not include (1) serving as a "municipal advisor" for purposes of the registration requirements of Section 975 of the Dodd-Frank Wall Street Reform and Consumer Protection Act (2010) or the municipal advisor registration rules issued by the Securities and Exchange Commission, or (2) advising Owner, or any municipal entity or other person or entity, regarding municipal financial products or the issuance of municipal securities, including advice with respect to the structure, timing, terms, or other similar matters concerning such products or issuances.
- O. While at the Site, Engineer, its Subconsultants, and Engineer's Subcontractors, and their employees and representatives will comply with the applicable requirements of Contractor's and Owner's safety programs of which Engineer has been informed in writing.

#### 6.02 Ownership and Use of Documents

- A. All Documents are instruments of service, and Engineer owns the Documents, including all associated copyrights and the right of reuse at the discretion of the Engineer. Engineer shall continue to own the Documents and all associated rights whether or not the Project is completed.
  - 1. Owner may make and retain copies of Documents for information and reference in connection with the use of the Documents on the Project.
  - 2. Engineer grants Owner a limited license to use the Documents on the Project, extensions of the Project, and for related uses of the Owner, subject to receipt by Engineer of full payment due and owing for all services relating to preparation of the Documents, and subject to the following limitations:
    - a. Owner acknowledges that such Documents are not intended or represented to be suitable for use on the Project unless completed by Engineer, or for use or reuse by Owner or others on extensions of the Project, on any other project, or for any other use or purpose, without written verification or adaptation by Engineer;
    - b. any such use or reuse, or any modification of the Documents, without written verification, completion, or adaptation by Engineer, as appropriate for the specific purpose intended, will be at Owner's sole risk and without liability or legal exposure to Engineer or to its officers, directors, members, partners, agents, employees, and Subconsultants;

- c. Owner shall indemnify and hold harmless Engineer and its officers, directors, members, partners, agents, employees, and Subconsultants from all claims, damages, losses, and expenses, including attorneys' fees, arising out of or resulting from any use, reuse, or modification of the Documents without written verification, completion, or adaptation by Engineer; and
  - d. such limited license to Owner shall not create any rights in third parties.
- B. If Engineer at Owner's request verifies the suitability of the Documents, completes them, or adapts them for extensions of the Project or for any other purpose, then Owner shall compensate Engineer at rates or in an amount to be agreed upon by Owner and Engineer.
- C. Engineer shall inform Owner if Engineer is aware of any invention, design, process, product, or device specified in the Drawings, Specifications, or other Documents that is subject to payment (whether by Owner or Contractor) of any license fee or royalty to others, as required by patent rights or copyrights. If Engineer's good-faith inclusion in the Drawings, Specifications, or other Documents of new, innovative, or non-standard technologies, for the benefit of Owner and the Project, results in third-party claims of infringement or violation of intellectual property rights, then Owner and Engineer shall share equally the costs of defending against, settling, or paying such claims.
- D. Engineer will obtain Owner's consent, which will not be unreasonably withheld, prior to releasing any publicity, including news and press releases, promotional publications, award and prize competition submittals, and other advertising regarding the subject matter of this Agreement. Nothing herein will limit the Engineer's right to include information in statements of qualifications and proposals to others accurately describing its participation and participation of employees in the Project.

#### 6.03 Electronic Transmittals

- A. To the fullest extent practical, Owner and Engineer agree to transmit, and accept, Project-related correspondence, Documents, text, data, drawings, information, and graphics, in electronic media or digital format, either directly, or through access to a secure Project website, in accordance with Exhibit F, Electronic Documents Protocol (EDP).
  - 1. Compliance with the EDP by Engineer shall be considered a Basic Service and no direct or separate compensation will be paid to Engineer for such compliance, unless provisions for separate compensation are expressly set forth in the EDP.
  - 2. Engineer's costs directly attributable to changes in Engineer's Electronic Documents obligations, after the effective date of this Agreement, necessitated by revisions to Exhibit F, delayed adoption of Exhibit F, or implementation of other Electronic Documents protocols, will be compensated as Additional Services.
- B. If this Agreement does not include Exhibit F or otherwise does not establish or include protocols for transmittal of Electronic Documents by Electronic Means, then Owner and Engineer may operate without specific protocols or may jointly develop such protocols at a later date.
- C. Except as stated otherwise in Exhibit F (if included in this Agreement), when transmitting Electronic Documents by Electronic Means, the transmitting party makes no representations as to long term compatibility, usability, or readability of the Electronic Documents resulting from the recipient's use of software application packages, operating systems, or computer

hardware differing from those used in the drafting or transmittal of the Electronic Documents, or from those established in applicable protocols.

- D. This Agreement (including the EDP) is not intended to create obligations for Owner or Engineer with respect to transmittals to or from third parties, except as expressly stated in the EDP.

#### 6.04 Insurance

- A. Engineer shall procure and maintain insurance as set forth in Exhibit G.
- B. Additional Insureds: The Engineer's commercial general liability, automobile liability, and umbrella or excess liability policies, must:
  - 1. include and list as additional insureds Owner, and any individuals or entities identified as additional insureds in Exhibit G;
  - 2. include coverage for the respective officers, directors, members, partners, and employees of all such additional insureds;
  - 3. afford primary coverage to these additional insureds for all claims covered thereby (including as applicable those arising from both ongoing and completed operations); and
  - 4. not seek contribution from insurance maintained by the additional insured.
- C. Owner shall procure and maintain insurance as set forth in Exhibit G.
- D. Owner shall require Contractor to purchase and maintain policies of insurance covering workers' compensation, general liability, motor vehicle damage and injuries, and other insurance necessary to protect Owner's and Engineer's interests in the Project. Owner shall require Contractor to cause Engineer, its Subconsultants, and Engineer's Subcontractors to be listed as additional insureds with respect to such liability insurance purchased and maintained by Contractor for the Project. Owner shall give Engineer access to any certificates of insurance and copies of endorsements and policies obtained by Owner from Contractor.
- E. Owner and Engineer shall each deliver to the other certificates of insurance evidencing the coverages indicated in Exhibit G. Such certificates must be furnished prior to commencement of Engineer's services and at renewals thereafter during the life of the Agreement.
  - 1. Upon request by Owner or any other insured, Engineer shall also furnish other evidence of such required insurance, including but not limited to copies of policies and endorsements, documentation of applicable self-insured retentions (if allowed) and deductibles, full disclosure of all relevant exclusions, and evidence of insurance required to be purchased and maintained by Subconsultants and Engineer's Subcontractors. In any documentation furnished under this provision, Engineer may redact (a) any confidential premium or pricing information and (b) any wording specific to projects or jurisdictions other than those applicable to this Agreement.
- F. All construction contracts entered into by Owner with respect to the Project must require builder's risk or similar property insurance.
- G. All policies of property insurance relating to the Project, including but not limited to any builder's risk or similar policy, must allow for waiver of subrogation rights and contain provisions to the effect that in the event of payment of any loss or damage the insurers will

have no rights of recovery against any insured thereunder or against Engineer, its Subconsultants, or Engineer's Subcontractors. Owner and Engineer waive all rights against each other, Contractor, Engineer's Subcontractors and Subconsultants, and the respective officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, for all losses and damages caused by, arising out of, or resulting from any of the perils or causes of loss covered by any such builder's risk or similar policy and any other property insurance relating to the Project. Owner and Engineer shall take appropriate measures in other Project-related contracts to secure waivers of rights consistent with those set forth in this paragraph.

- H. All policies of insurance must contain a provision or endorsement that the coverage afforded will not be canceled, and that renewal will not be refused, until at least 10 days' prior written notice has been given to the primary insured. Upon receipt of such notice, the primary insured must promptly forward a copy of the notice to the other party to this Agreement and replace the coverage being cancelled or reduced to conform to the requirements of this Agreement.
- I. At any time, Owner may request that Engineer, or Engineer's Subcontractors or Subconsultants, at Owner's sole expense, provide additional insurance coverage, increased limits, or revised deductibles that are more protective than those specified in Exhibit G. If so requested by Owner, and if commercially available, Engineer shall obtain and shall require Engineer's Subcontractors or Subconsultants to obtain such additional insurance coverage, different limits, or revised deductibles for such periods of time as requested by Owner, and Exhibit G will be supplemented to incorporate these requirements.

#### 6.05 Suspension and Termination

##### A. Suspension

- 1. By Owner: Owner may suspend Engineer's services for up to 90 days upon 7 days' written notice to Engineer.
- 2. By Engineer: Engineer may, after giving 7 days' written notice to Owner, suspend services under this Agreement:
  - a. if Owner has failed to pay Engineer for invoiced services and expenses, as set forth in Paragraphs 4.02.B and 4.02.C;
  - b. in response to the presence of Constituents of Concern at the Site, as set forth in Paragraph 6.09.D; or
  - c. if persistent circumstances beyond the control of Engineer have prevented it from performing its obligations under this Agreement.

##### B. Termination for Cause

- 1. Either party may terminate the Agreement for cause upon 30 days' written notice in the event of substantial failure by the other party to perform in accordance with the terms of the Agreement, through no fault of the terminating party.
  - a. Notwithstanding the foregoing, this Agreement will not terminate under Paragraph 6.05.B.1 if the party receiving such notice begins, within 7 days of receipt of such notice, to correct its substantial failure to perform and proceeds diligently to cure such failure within no more than 30 days of receipt thereof;

provided, however, that if and to the extent such substantial failure cannot be reasonably cured within such 30-day period, and if such party has diligently attempted to cure the same and thereafter continues diligently to cure the same, then the cure period provided for herein will extend up to, but in no case more than, 60 days after the date of receipt of the notice.

2. In addition to its termination rights in Paragraph 6.05.B.1, Engineer may terminate this Agreement for cause upon 7 days' written notice:
    - a. if Owner demands that Engineer furnish or perform services contrary to Engineer's responsibilities as a licensed professional;
    - b. if Engineer's services for the Project are delayed or suspended for more than 90 days for reasons beyond Engineer's control; or
    - c. as the result of the presence at or adjacent to the Site of undisclosed Constituents of Concern, as set forth in Paragraph 6.09.E.
  3. Engineer will have no liability to Owner on account of any termination by Engineer for cause.
- C. Termination for Convenience: Owner may terminate this Agreement for convenience, effective upon Engineer's receipt of notice from Owner.
- D. Extension of Effective Date of Termination: If Owner terminates the Agreement for cause or convenience, Owner may set the effective date of termination at a time up to 30 days later than otherwise provided to allow Engineer to demobilize personnel and equipment from the Site, to complete tasks whose value would otherwise be lost, to prepare notes as to the status of completed and uncompleted tasks, and to assemble Project materials in orderly files. Engineer shall be entitled to compensation for such tasks.
- E. Payments Upon Termination: In the event of any termination under Paragraph 6.05, Engineer will be entitled to invoice Owner and to receive full payment for all services performed or furnished in accordance with this Agreement and all reimbursable expenses incurred through the effective date of termination. Upon making such payment, Owner will have the limited right to the use of Documents, at Owner's sole risk, subject to the provisions of Paragraph 6.02.A.
1. If Owner has terminated the Agreement for cause and disputes Engineer's entitlement to compensation for services and reimbursement of expenses, then Engineer's entitlement to payment and Owner's rights to the use of the Documents will be resolved in accordance with the dispute resolution provisions of this Agreement or as otherwise agreed in writing.
  2. If Owner has terminated the Agreement for convenience, or if Engineer has terminated the Agreement for cause, then Engineer will be entitled, in addition to the payments identified above, to invoice Owner and receive payment of a reasonable amount for services and expenses directly attributable to termination, both before and after the effective date of termination, such as reassignment of personnel, costs of terminating contracts with Engineer's Subcontractors or Subconsultants, and other related close-out costs, using methods and rates for Additional Services as set forth in Exhibit J.

#### 6.06 Successors, Assigns, and Beneficiaries

- A. Owner and Engineer are hereby bound and the successors, executors, administrators, and legal representatives of Owner and Engineer (and to the extent permitted by Paragraph 6.06.B the assigns of Owner and Engineer) are hereby bound to the other party to this Agreement and to the successors, executors, administrators and legal representatives (and said assigns) of such other party, in respect of all covenants, agreements, and obligations of this Agreement.
- B. Neither Owner nor Engineer may assign, sublet, or transfer any rights under or interest (including, but without limitation, claims arising out of this Agreement or money that is due or may become due) in this Agreement without the written consent of the other party, except to the extent that any assignment, subletting, or transfer is mandated by law. Unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under this Agreement.
- C. Unless expressly provided otherwise in this Agreement:
  - 1. All duties and responsibilities undertaken pursuant to this Agreement will be for the sole and exclusive benefit of Owner and Engineer and not for the benefit of any other party.
  - 2. Nothing in this Agreement will be construed to create, impose, or give rise to any duty owed by Owner or Engineer to any Constructor, other third-party individual or entity, or to any surety for or employee of any of them.
  - 3. Owner agrees that the substance of the provisions of this Paragraph 6.06.C will appear in the Construction Contract Documents.

#### 6.07 Dispute Resolution

- A. Unless otherwise required by Exhibit H, Owner and Engineer shall resolve all disputes in the following manner:
  - 1. Owner and Engineer agree to negotiate all disputes between them in good faith for a period of 30 days from the date of notice, prior to invoking mediation.
  - 2. Owner and Engineer agree that they shall first submit any and all unsettled claims, counterclaims, disputes, and other matters in question between them arising out of or relating to this Agreement or the breach thereof (“Disputes”) to mediation. Owner and Engineer agree to participate in the mediation process in good faith. The process will be conducted on a confidential basis, and must be completed within 120 days.
  - 3. If the parties fail to resolve a Dispute through negotiations under Paragraph 6.07.A.1 or mediation under Paragraph 6.07.A.2, then:
    - a. either or both may invoke the applicable dispute resolution procedures of Exhibit H for final resolution of Disputes.
    - b. If Exhibit H is not included, or if no final dispute resolution method is specified in Exhibit H, then the parties may exercise their rights at law.

#### 6.08 Controlling Law; Venue

- A. This Agreement is to be governed by the Laws and Regulations of the state in which the Project is located.

- B. Venue for any exercise of rights at law will be the state court having jurisdiction at the location of the Project; or at the choice of either party, and if federal jurisdictional requirements can be met, in federal court in the district in which the Project is located.

6.09 Environmental Condition of Site

- A. Owner represents to Engineer that, as of the Effective Date, to the best of Owner's knowledge, no Constituents of Concern, other than those disclosed in writing to Engineer, exist at or adjacent to the Site.
- B. Undisclosed Constituents of Concern: For purposes of this Paragraph 6.09, the presence at or adjacent to the Site of Constituents of Concern that were not disclosed to Engineer pursuant to Paragraph 6.09.A, in such quantities or circumstances that such Constituents of Concern may present a danger to persons or property exposed to them, will be referred to as "undisclosed" Constituents of Concern.
  - 1. The presence at the Site of materials that are necessary for the execution of the Work, or that are to be incorporated in the Work, and that are controlled and contained pursuant to industry practices, Laws and Regulations, and the requirements of this Agreement or the Construction Contract, are not undisclosed Constituents of Concern.
  - 2. Constituents of Concern that are to be located, identified, studied, removed, or remediated as part of the services under this Agreement are not undisclosed Constituents of Concern.
  - 3. Constituents of Concern that are to be located, identified, studied, removed, or remediated as part of the services under another professional services contract for Owner, or as part of the work under a construction or remediation contract, are not undisclosed Constituents of Concern if Engineer has been informed of the general scope of such contract.
- C. If Engineer encounters or learns of an undisclosed Constituent of Concern at the Site, then Engineer shall notify (1) Owner and (2) appropriate authorities having jurisdiction if Engineer reasonably concludes that doing so is required by applicable Laws or Regulations.
- D. It is acknowledged by both parties that Engineer's scope of services does not include any services related to undisclosed Constituents of Concern. If Engineer or any other party encounters, uncovers, or reveals an undisclosed Constituent of Concern, or if encountered, uncovered, or revealed Constituents of Concern are present in substantially greater quantities or substantially different locations than disclosed or anticipated, or if investigative or remedial action, or other professional services, are necessary or required by applicable Laws and Regulations with respect to such Constituents of Concern, then Engineer may, at its option and without liability for direct, consequential, or any other damages, suspend performance of services on the portion of the Project adversely affected thereby until such portion of the Project is no longer so affected; and Owner shall promptly determine whether to retain a qualified expert to evaluate such condition or take any necessary corrective action.
- E. If the presence at the Site of undisclosed Constituents of Concern, or of Constituents of Concern in substantially greater quantities or in substantially different locations than disclosed or anticipated, adversely affects the performance of Engineer's services under this Agreement, then:

1. if the adverse effects do not preclude Engineer from completing its Project services in general accordance with this Agreement on unaffected or marginally affected portions of the Project, Engineer may accept an equitable adjustment in its compensation or in the time of completion, or both; and the Agreement will be amended to reflect changes necessitated by the presence of such Constituents of Concern; or
  2. if the adverse effects are of such materiality to the overall performance of Engineer that it cannot complete its services without significant changes to the scope of services, time of completion, and compensation, then Engineer may terminate this Agreement for cause on 7 days' written notice.
- F. Owner acknowledges that Engineer is performing professional services for Owner and that Engineer is not and will not be required to become an "owner," "arranger," "operator," "generator," or "transporter" of hazardous substances, as defined in the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, which are or may be encountered at or near the Site in connection with Engineer's activities under this Agreement.

#### 6.10 Indemnification and Mutual Waiver

- A. Indemnification by Engineer: To the fullest extent permitted by Laws and Regulations, Engineer shall indemnify and hold harmless Owner, and Owner's officers, directors, members, partners, agents, and employees, from losses, damages, and judgments (including reasonable consultants' and attorneys' fees and expenses) arising from third-party claims or actions relating to the Project, provided that any such claim, action, loss, damages, or judgment is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property (other than the Work itself), including the loss of use resulting therefrom, but only to the extent caused by any negligent act or omission of Engineer or Engineer's officers, directors, members, partners, agents, employees, Subconsultants, or Engineer's Subcontractors. This indemnification provision is subject to and limited by the provisions, if any, agreed to by Owner and Engineer in Exhibit I, "Limitations of Liability."
- B. Environmental Indemnification: To the fullest extent permitted by Laws and Regulations, Owner shall indemnify and hold harmless Engineer, its Subconsultants, Engineer's Subcontractors, and their officers, directors, members, partners, agents, employees, and subconsultants from all claims, costs, losses, damages, actions, and judgments (including reasonable consultants' and attorney's fees and expenses) caused by, arising out of, relating to, or resulting from a Constituent of Concern at, on, or under the Site, provided that:
1. any such claim, cost, loss, damages, action, or judgment is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property (other than the Work itself), including the loss of use resulting therefrom, and
  2. nothing in this paragraph obligates Owner to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence or willful misconduct.
- C. No Defense Obligation: The indemnification commitments in this Agreement do not include a defense obligation by the indemnitor unless such obligation is expressly stated.

- D. **Percentage Share of Negligence:** To the fullest extent permitted by Laws and Regulations, a party's total liability to the other party and anyone claiming by, through, or under the other party for any cost, loss, or damages caused in part by the negligence of the party and in part by the negligence of the other party or any other negligent entity or individual, will not exceed the percentage share that the party's negligence bears to the total negligence of Owner, Engineer, and all other negligent entities and individuals.
- E. **Mutual Waiver:** To the fullest extent permitted by Laws and Regulations, Owner and Engineer waive against each other, and the other's officers, directors, members, partners, agents, employees, subconsultants, and insurers, any and all claims for or entitlement to special, incidental, indirect, or consequential damages arising out of, resulting from, or in any way related to this Agreement or the Project, from any cause or causes. Such excluded damages include but are not limited to loss of profits or revenue; loss of use or opportunity; loss of good will; cost of substitute facilities, goods, or services; and cost of capital.

#### 6.11 Records Retention

- A. Engineer shall maintain on file in legible form, for a period of five years following completion or termination of its services, or such other period as required by Laws and Regulations, all Documents, records (including cost records), and design calculations related to Engineer's services or pertinent to Engineer's performance under this Agreement. Upon Owner's request, Engineer shall provide a copy of any such item to Owner at cost.

#### 6.12 Miscellaneous Provisions

- A. **Notices:** Any notice required under this Agreement will be in writing, and delivered: in person (by commercial courier or otherwise); by registered or certified mail; or by e-mail to the recipient, with the words "Formal Notice" or similar in the e-mail's subject line. All such notices are effective upon the date of receipt.
- B. **Survival:** Subject to applicable Laws and Regulations, all express representations, waivers, indemnifications, and limitations of liability included in this Agreement will survive its completion or termination for any reason.
- C. **Severability:** Any provision or part of the Agreement held to be void or unenforceable under any Laws or Regulations will be deemed stricken, and all remaining provisions will continue to be valid and binding upon Owner and Engineer.
- D. **No Waiver:** A party's non-enforcement of any provision will not constitute a waiver of that provision, nor will it affect the enforceability of that provision or of the remainder of this Agreement.
- E. **Accrual of Claims:** To the fullest extent permitted by Laws and Regulations, all causes of action arising under this Agreement will be deemed to have accrued, and all statutory periods of limitation will commence, no later than the date of Substantial Completion; or, if Engineer's services do not include Construction Phase services, or the Project is not completed, then no later than the date of Owner's last payment to Engineer.

## ARTICLE 7—DEFINITIONS

### 7.01 Defined Terms

- A. Wherever used in this Agreement (including the exhibits hereto) terms (including the singular and plural forms) printed with initial capital letters have the meanings indicated in the text above, in the exhibits, or in the following definitions:
1. **Addenda**—Written or graphic instruments issued prior to the opening of bids which clarify, correct, or change the bidding requirements or the proposed Construction Contract Documents.
  2. **Additional Services**—The services to be performed for or furnished to Owner by Engineer in accordance with Article 2 of Exhibit A of this Agreement.
  3. **Agreement**—This written contract for professional services between Owner and Engineer, including all exhibits identified in Paragraph 8.01 and any duly executed amendments.
  4. **Application for Payment**—The form acceptable to Engineer which is to be used by Contractor during the course of the Work in requesting progress or final payments and which is to be accompanied by such supporting documentation as is required by the Construction Contract.
  5. **Basic Services**—The services to be performed for or furnished to Owner by Engineer in accordance with Article 1 of Exhibit A of this Agreement.
  6. **Bidding/Proposal Documents**—Documents related to the selection of the Contractor, including advertisements or invitations to bid; requests for proposals; instructions to bidders or proposers, including any attachments such as lists of available Site-related documents; bid forms; bids; proposal forms; proposals; bidding requirements; and qualifications documents.
  7. **Change Order**—A document which is signed by Contractor and Owner and authorizes an addition, deletion, or revision in the Work or an adjustment in the Construction Contract Price or the Construction Contract Times, or other revision to the Construction Contract, issued on or after the effective date of the Construction Contract.
  8. **Change Proposal**—A written request by Contractor, duly submitted in compliance with the procedural requirements set forth in the Construction Contract, seeking an adjustment in Construction Contract Price or Construction Contract Times, or both; contesting an initial decision by Engineer concerning the requirements of the Construction Contract Documents or the acceptability of Work under the Construction Contract Documents; challenging a set-off against payments due; or seeking other relief with respect to the terms of the Construction Contract.
  9. **Constituents of Concern**—Asbestos, petroleum, radioactive materials, polychlorinated biphenyls (PCBs), lead-based paint (as defined by the HUD/EPA standard), hazardous waste, and any substance, product, waste, or other material of any nature whatsoever that is or becomes listed, regulated, or addressed pursuant to Laws and Regulations regulating, relating to, or imposing liability or standards of conduct concerning, any hazardous, toxic, or dangerous waste, substance, or material.

10. Construction Contract—The entire and integrated written contract between Owner and Contractor concerning the Work.
11. Construction Contract Documents—Those items designated as “Contract Documents” in the Construction Contract, and which together comprise the Construction Contract. See also definition of “Front-End Construction Contract Documents” below.
12. Construction Contract Price—The money that Owner has agreed to pay Contractor for completion of the Work in accordance with the Construction Contract Documents.
13. Construction Contract Times—The number of days or the dates by which Contractor must: (a) achieve milestones, if any, in the Construction Contract; (b) achieve Substantial Completion; and (c) complete the Work.
14. Construction Cost—The cost to Owner of the construction of those portions of the entire Project designed or specified by or for Engineer under this Agreement, including construction labor, services, materials, equipment, insurance, and bonding costs, and allowances for contingencies. Construction Cost does not include costs of services of Engineer or other design professionals and consultants; cost of land or rights-of-way, or compensation for damages to property; Owner’s costs for legal, accounting, insurance counseling, or auditing services; interest or financing charges incurred in connection with the Project; or the cost of other services to be provided by others to Owner. Construction Cost is one of the items comprising Total Project Costs.
15. Constructor—Any person or entity (not including the Engineer, its employees, agents, representatives, or Subconsultants, or Engineer’s Subcontractors), performing or supporting construction activities relating to the Project, including but not limited to Contractors, Subcontractors, Suppliers, Owner’s work forces, utility companies, other contractors, construction managers, design-builders, testing firms, shippers, and truckers, and the employees, agents, and representatives of any or all of them.
16. Contractor—The entity or individual with which Owner enters into a Construction Contract.
17. Documents—All documents expressly identified as deliverables in this Agreement, whether in printed or Electronic Document form, required by this Agreement to be provided or furnished by Engineer to Owner. Such specifically required deliverables may include, by way of example, Drawings, Specifications, data, reports, building information models, and civil integrated management models.
18. Drawings—That part of the Construction Contract Documents that graphically shows the scope, extent, and character of the Work to be performed by Contractor.
19. Effective Date—The date indicated in this Agreement on which it becomes effective, but if no such date is indicated, the date on which this Agreement is signed and delivered by the last of the parties to sign and deliver.
20. Electronic Document—Any Project-related correspondence, attachments to correspondence, data, documents, drawings, information, or graphics, including but not limited to Shop Drawings and other Submittals, that are in an electronic or digital format.
21. Electronic Means—Electronic mail (e-mail), upload/download from a secure Project website, or other communications methods that allow: (a) the transmission or

communication of Electronic Documents; (b) the documentation of transmissions, including sending and receipt; (c) printing of the transmitted Electronic Document by the recipient; (d) the storage and archiving of the Electronic Document by sender and recipient; and (e) the use by recipient of the Electronic Document for purposes permitted by this Agreement. Electronic Means does not include the use of text messaging, or of Facebook, Twitter, Instagram, or similar social media services for transmission of Electronic Documents.

22. Engineer—The individual or entity named as such in this Agreement.
23. Engineer's Subcontractor—An individual, firm, vendor, or other entity having a contract with Engineer to furnish general services, equipment, or materials with respect to the Project as an independent contractor.
24. Field Order—A written order issued by Engineer which requires minor changes in the Work but does not change the Construction Contract Price or the Construction Contract Times.
25. Front-End Construction Contract Documents—Those Construction Contract Documents whose primary purpose is to establish legal and contractual terms and conditions, typically including the Owner-Contractor agreement, bonds, general conditions, and supplementary conditions. The term excludes the Drawings and Specifications, and any Construction Contract Documents delivered or issued after the effective date of the Construction Contract.
26. Laws and Regulations; Laws or Regulations—Any and all applicable laws, statutes, rules, regulations, ordinances, codes, and orders of any and all governmental bodies, agencies, authorities, and courts having jurisdiction.
27. Owner—The individual or entity named as such in this Agreement and for which Engineer's services are to be performed. Unless indicated otherwise, this is the same individual or entity that will enter into any Construction Contracts concerning the Project.
28. Project—The total undertaking to be accomplished for Owner by engineers, contractors, and others, including planning, study, design, construction, testing, commissioning, and start-up, and of which the services to be performed or furnished by Engineer under this Agreement are a part.
29. Record Drawings—Drawings depicting the completed Project, or a specific portion of the completed Project, prepared by Engineer and based on Contractor's record copy of all Drawings, Specifications, Addenda, Change Orders, Work Change Directives, Field Orders, and written interpretations and clarifications, as delivered to Engineer and annotated by Contractor to show changes made during construction.
30. Resident Project Representative—The authorized representative of Engineer assigned to assist Engineer at the Site during the Construction Phase. As used herein, the term Resident Project Representative (RPR) includes any assistants or field staff of the RPR.
31. Samples—Physical examples of materials, equipment, or workmanship that are representative of some portion of the Work and that establish the standards by which such portion of the Work will be judged.

32. Shop Drawings—All drawings, diagrams, illustrations, schedules, and other data or information that are specifically prepared or assembled by or for Contractor and submitted by Contractor to illustrate some portion of the Work. Shop Drawings, whether approved or not, are not Drawings and are not Construction Contract Documents.
33. Site—Lands or areas to be indicated in the Construction Contract Documents as being furnished by Owner upon which the Work is to be performed, including rights-of-way and easements, and such other lands furnished by Owner which are designated for the use of Contractor.
34. Specifications—The part of the Construction Contract Documents that consists of written requirements for materials, equipment, systems, standards, and workmanship as applied to the Work, and certain administrative requirements and procedural matters applicable to the Work.
35. Subconsultant—An individual, design firm, consultant, or other entity having a contract with Engineer to furnish professional services with respect to the Project as an independent contractor.
36. Subcontractor—An individual or entity having a direct contract with Contractor or with any other Subcontractor for the performance of a part of the Work.
37. Submittal—A written or graphic document, prepared by or for Contractor, which the Construction Contract Documents require Contractor to submit to Engineer, or that is indicated as a Submittal in the Schedule of Submittals accepted by Engineer. Submittals may include Shop Drawings and Samples; schedules; product data; Owner-delegated designs; sustainable design information; information on special procedures; testing plans; results of tests and evaluations, source quality-control testing and inspections, and field or Site quality-control testing and inspections; warranties and certifications; Suppliers' instructions and reports; records of delivery of spare parts and tools; operations and maintenance data; Project photographic documentation; record documents; and other such documents required by the Construction Contract Documents. Submittals, whether or not approved or accepted by Engineer, are not Construction Contract Documents. Change Proposals, Change Orders, Claims, notices, Applications for Payment, and requests for interpretation or clarification are not Submittals.
38. Substantial Completion—The time at which the Work (or a specified part thereof) has progressed to the point where, in the opinion of Engineer, the Work (or a specified part thereof) is sufficiently complete, in accordance with the Construction Contract Documents, so that the Work (or a specified part thereof) can be utilized for the purposes for which it is intended. The terms "substantially complete" and "substantially completed" as applied to all or part of the Work refer to Substantial Completion thereof.
39. Supplier—A manufacturer, fabricator, supplier, distributor, materialman, or vendor having a direct contract with Contractor or with any Subcontractor to furnish materials or equipment to be incorporated in the Work by Contractor or a Subcontractor.
40. Total Project Costs—The total cost of planning, studying, designing, constructing, testing, commissioning, and start-up of the Project, including Construction Cost and all other Project labor, services, materials, equipment, insurance, and bonding costs,

allowances for contingencies, and the total costs of services of Engineer or other design professionals and consultants, together with such other Project-related costs that Owner furnishes for inclusion, including but not limited to cost of land, rights-of-way, compensation for damages to properties and private utilities (including relocation if not part of Construction Cost), Owner's costs for legal, accounting, insurance counseling, and auditing services, interest and financing charges incurred in connection with the Project, and the cost of other services to be provided by others to Owner.

41. Underground Facilities—All active or not-in-service underground lines, pipelines, conduits, ducts, encasements, cables, wires, manholes, vaults, tanks, tunnels, or other such facilities or systems at the Site, including but not limited to those facilities or systems that produce, transmit, distribute, or convey telephone or other communications, cable television, fiber optic transmissions, power, electricity, light, heat, gases, oil, crude oil products, liquid petroleum products, water, steam, waste, wastewater, storm water, other liquids or chemicals, or traffic or other control systems. An abandoned facility or system is not an Underground Facility.
42. Work—The entire construction or the various separately identifiable parts thereof required to be provided under the Construction Contract Documents. Work includes and is the result of performing or providing all labor, services, and documentation necessary to produce such construction; furnishing, installing, and incorporating all materials and equipment into such construction; and may include related services such as testing, start-up, and commissioning, all as required by the Construction Contract Documents.
43. Work Change Directive—A written directive to Contractor issued on or after the effective date of the Construction Contract, signed by Owner and recommended by Engineer, ordering an addition, deletion, or revision in the Work.

B. Terminology

1. The word “day” means a calendar day of 24 hours measured from midnight to the next midnight.

## ARTICLE 8—EXHIBITS AND SPECIAL PROVISIONS

### 8.01 Exhibits to Agreement

The following exhibits are incorporated by reference and included as part of this Agreement:

- A. Exhibit A, Engineer's Services.
- B. Exhibit B, Deliverables Schedule.
- C. Exhibit C, Amendment to Owner-Engineer Agreement (form).
- D. Exhibit D, Duties, Responsibilities and Limitations of Authority of Resident Project Representative. **NOT USED**
- E. Exhibit E, EJCDC® C-626, Notice of Acceptability of Work (form). **NOT USED**
- F. Exhibit F, Electronic Documents Protocol (EDP). **NOT USED**
- G. Exhibit G, Insurance.

- H. Exhibit H, Dispute Resolution.
- I. Exhibit I, Limitations of Liability.
- J. Exhibit J, Payments to Engineer for Services and Reimbursable Expenses.

#### 8.02 Total Agreement

- A. This Agreement (which includes the exhibits listed above) constitutes the entire contractual agreement between Owner and Engineer and supersedes all prior written or oral understandings. This Agreement may only be amended, supplemented, modified, or canceled by a written instrument duly executed by both parties. Amendments should be based whenever possible on the format of Exhibit C to this Agreement.

#### 8.03 Designated Representatives

- A. With the execution of this Agreement, Engineer and Owner shall each designate a specific individual to act as representative under this Agreement. Such an individual must have authority to transmit instructions, receive information, and render decisions with respect to this Agreement on behalf of the party that the individual represents.

#### 8.04 Engineer's Certifications

- A. Engineer certifies that it has not engaged in corrupt, fraudulent, or coercive practices in competing for or in executing the Agreement. For the purposes of this Paragraph 8.04:
  - 1. "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the selection process or in the Agreement execution;
  - 2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the selection process or the execution of the Agreement to the detriment of Owner, or (b) to deprive Owner of the benefits of free and open competition;
  - 3. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the selection process or affect the execution of the Agreement.

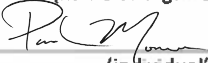
#### 8.05 Conflict of Interest

- A. Nothing in this Agreement will be construed to create or impose any duty on the part of Engineer that would be in conflict with Engineer's paramount obligations to the public health, safety, and welfare under the professional practice requirements governing Engineer, its Subconsultants, and all licensed professionals employed by Engineer or its Subconsultants.
- B. If during the term of this Agreement a potential or actual conflict of interest arises or is identified:
  - 1. Engineer and Owner together will make reasonable, good faith efforts to avoid or eliminate the conflict of interest; to mitigate any adverse consequences of the conflict of interest; and, if necessary and feasible, to modify this Agreement to address the conflict of interest and its consequences, such that progress under the Agreement may continue.

2. Such efforts will be governed by applicable Laws and Regulations and by any pertinent Owner's policies, procedures, and requirements (including any conflict of interest resolution methodologies) provided to Engineer under Paragraph 2.04.A of this Agreement.

This Agreement's Effective Date is **September 15, 2022**.

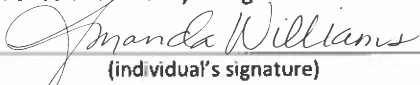
Owner:  
Central Iron County Water Conservancy District

(name of organization)  
By:   
(individual's signature)

Date: 12/2/2022  
(date signed)

Name: Paul Monroe  
(typed or printed)

Title: General Manager  
(typed or printed)

Attach evidence of authority to sign.  
Attest:   
(individual's signature)

Title: Office Manager  
(typed or printed)

Address for giving notices:  
88 E Fiddlers Canyon Rd #220  
Cedar City, UT 84721

Designated Representative:  
Name: Paul Monroe  
(typed or printed)  
Title: General Manager  
(typed or printed)

Address:  
88 E Fiddlers Canyon Rd #220  
Cedar City, UT 84721

Phone: 435-865-9901  
Email: monroe@cicwcd.org

Engineer:  
Sunrise Engineering, Inc.

(name of organization)  
By:   
(individual's signature)

Date: 12/1/22  
(date signed)

Name: Joseph K. Phillips, PE  
(typed or printed)

Title: Vice President  
(typed or printed)

Attach evidence of authority to sign.  
Attest:   
(individual's signature)

Title: Administrative Assistant  
(typed or printed)

Address for giving notices:  
11 North 300 West  
Washington, UT 84780

Designated Representative:  
Name: Joseph K. Phillips, PE  
(typed or printed)  
Title: Vice President  
(typed or printed)

Address:  
11 North 300 West  
Washington, UT 84780

Phone: 435-652-8450  
Email: jphillips@sunrise-eng.com

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Article 1 of the Agreement, Services of Engineer, is supplemented to include the following provisions:

Baseline Information: Owner has furnished the following Project information to Engineer as of the Effective Date. Engineer's scope of services has been developed based on this information. As the Project moves forward, some of the information may change or be refined, and additional information will become known, resulting in the possible need to change, refine, or supplement the scope of services.

Project Title: **CICWCD WIP2022 Concrete Tanks**

Type and Size of Facility: **One 4.0MG AWWA D115 tendon pre-stressed concrete tank and one 0.5MG conventionally reinforced concrete tank.**

Description of Improvements: **Two reinforced concrete tanks, appurtenances immediately related to the tank structures, an above-ground reinforced concrete control valve room or vault with contiguous chlorination room and pipeline between the tank and vault associated with the 8-Mile Hills Tank, and site, access and drainage improvements related to both tank sites. Other tank site transmission and distribution pipelines are not included in the improvements.**

Expected Construction Start: **Spring, 2023.**

Prior Studies, Reports, Plans: **None Specified.**

Facility Location(s): **Cedar Highlands Tank (0.5MG) at Lat: 37°38'6.14"N Long: 113° 2'8.23"W; 8-Mile Hills Tank (4.0MG) at Lat: 37°42'49.72"N Long: 113°12'36.55"W**

Current Project Budget: **Not Specified.**

Funding Sources: **Owner and USDA RD.**

Known Design Standards: **See Other Pertinent Information Below.**

Known Project Limitations: **See Other Pertinent Information Below.**

Project Assumptions: **See Other Pertinent Information Below.**

Other Pertinent Information: **The following information was recorded in the June 7, 2022, project scoping meeting and site visits attended by Owner and Engineer:**

**1. General Information:**

- a. **All surveys, topographic mapping, and utility documentation will be provided by Owner and located in the Utah State Planes coordinate system. Utility documentation will include underground facilities.**
- b. **Owner will provide a geotechnical investigation which provides design recommendations for both sites.**
- c. **Owner will specify pipeline inflow and outflow design criteria prior to Engineer's commencement of services.**
- d. **Specifications prepared for the Project will require prequalification of the Contractor.**
- e. **Owner requires a 40-inch bury on all transmission lines.**
- f. **Engineer will consider variations in location at the sites and tank dimensions to seek preferred configurations that optimize the designs as part of the Preliminary Design Phase.**
- g. **Owner will provide tank base and overflow elevation limitations.**
- h. **Engineer's services related to the Study and Report Phase, Bidding/Proposal Phase, Construction Phase, and Post-Construction Phase of the Project will not be required. If such services become required, Owner may request such services as Additional Services.**

**2. Cedar Highlands Tank:**

- a. **This tank will be a conventionally reinforced concrete tank with a capacity of approximately 500,000 gallons.**
- b. **This tank has been moved to a higher elevation since the RFP was issued (the revised location is east of the northing and easting provided in the RFP).**

- c. The tank will be partially buried. With the snow loads in this area, it is probably best that it not be completely buried.
  - d. This is a potential slide area. The geotechnical investigation to be provided by Owner will inform as to special conditions and requirements.
  - e. Controlling base and overflow elevations are limited due to the PRV in the system (the existing tank is inducing approximately 130 psi at the PRV now; there is an acceptable variation window of approximately 5 psi).
  - f. Thick vegetation on site will require careful survey and mapping to ensure accurate data for design.
  - g. A 65-foot access easement for the property owner must be maintained between the existing wood fence and the proposed tank perimeter fence.
  - h. A perimeter fence will be installed around the tank; there was some discussion about whether the fence should be wood fence or 4-wire field fence (the existing 4-wire field fence around the well house has held up to the snow well so far).
  - i. The existing 160K gallon tank at the site will be taken completely offline and removed following construction of the new tank; accordingly, the overflow elevations between the existing tank and the new tank do not need to match.
  - j. There are several springs nearby. We need to include a dewatering mechanism around the tank; of concern is the issue that the excavation will reveal groundwater or that the groundwater levels behind the tank will rise in wetter seasons or climactic cycles.
3. **8-Mile Hills Tank:**
- a. This tank will be an AWWA D115 tendon pre-stressed concrete tank with a capacity of approximately 4,000,000 gallons.
  - b. The existing 250k gallon steel tank is about 20 feet in elevation too low for the system to function as desired.
  - c. The existing tank will be taken completely offline following construction; overflow elevations of the existing and new tank do not need to match.
  - d. A discussion on the potential for water stagnation was had, including the need for treatment at the tank vs. mixing vs. increasing turnover vs. burying the tank to maintain water quality. Owner and Engineer will investigate management alternatives during the Preliminary Design Phase. Owner will operate the system network hydraulic model and inform Engineer of anticipated operating conditions and scenarios and water turnover patterns.
  - e. A nearby mine requires about 900 gpm of water of a quality that doesn't require treatment.
  - f. A benefit/cost analysis of the various reinforcing approaches (conventional, D110 Type 1, D110 Type 3, D115) will not be required due to the almost certain probability that the D115 tank will be the preferred approach.
  - g. The tank will use an existing 18-inch transmission line; it is anticipated that the tank will be fed and discharged through a single "uni-line" setup.
  - h. Owner has selected two potential sites for the tank, including the site identified in the RFP and a second site located northwest of the original site; both sites were visited, and it was determined that the second site is the preferred alternative.
  - i. Owner will provide a geotechnical investigation with design recommendations for the site.
  - j. The site appears to consist of rocky terrain with gravelly surface soils; rock excavation, including blasting, may be required.
  - k. Three phase power is available nearby at Owner's existing nearby booster pump station.

- I. **We need to include the control vault with directly appurtenant piping and control valves in the tank design.**
- m. **We can move the tank anywhere on the parcel as deemed appropriate to improve constructability.**

Engineer shall provide Basic and Additional Services as set forth below.

## **ARTICLE 1—BASIC SERVICES**

### 1.01 Management of Engineering Services

- A. All phases of Engineer's services will include management of Engineer's Project-specific responsibilities, including but not limited to the following management tasks, whether separately tracked and itemized or included as being incidental to other phase and scope task items.
  - 1. Develop and submit an Engineering Services Schedule. The Engineering Services Schedule will:
    - a. be consistent with and serve as a supplement to the Schedule of Deliverables set forth in Exhibit B.
    - b. be updated on a regular basis, and as required to reflect any programmatic decisions by Owner.
    - c. include, but not be limited to, an anticipated sequence of tasks; estimates of task duration; interrelationships among tasks; milestone meetings and submittals; anticipated schedule of construction; and other pertinent Project events.
  - 2. Develop and submit detailed work plans from Exhibit A tasks.
  - 3. Coordinate services within Engineer's internal team, and with Subconsultants and Engineer's Subcontractors.
  - 4. Prepare for and participate in meetings with consultants and contractors working on other parts of the Project that may affect, or be affected by, Engineer's services or resulting construction.
  - 5. Prepare and submit **regular** engineering services progress reports to the Owner. Include summary of services performed in period, expected progress in next period, percent completion of current tasks, and a description of major issues or concerns.
  - 6. Special Invoicing: In addition to, or as a substitute for, Engineer's standard invoicing, provide the specified additional information or documentation, following the invoicing procedures indicated: **Not Applicable**.
  - 7. Conduct ongoing management tasks, including:
    - a. Maintaining communications records and files pertaining to or arising from Engineer's services;
    - b. With respect to Engineer's services and other directly relevant parts of the Project, prepare for and participate in periodic progress meetings with Owner to discuss progress, schedule, budget, issues, potential problems and their resolution; and

- c. Preparing agendas prior to and minutes following all Engineer-led meetings.
- B. In all phases of Engineer's services, Engineer shall prepare draft and final Drawings in accordance with **Engineer's CAD standards**, using **2022** version **AutoCAD** software.
- C. The source documents for the draft and final Specifications in all phases of Engineer's services will be **Owner's standard specifications and Engineer's special provisions**, unless otherwise mutually agreed upon by the parties.

1.02 Study and Report Phase **NOT USED**

1.03 Preliminary Design Phase

- A. After acceptance by Owner of the Report and any other Study and Report Phase deliverables (if Engineer's services under this Agreement included Study and Report Phase services); selection by Owner of a recommended solution; issuance by Owner of any instructions for use of Project Strategies, Technologies, and Techniques, or for inclusion of sustainable features in the design, or enhanced resiliency of the design; indication by Owner of any specific modifications or changes in the scope, extent, character, or design requirements of the Project desired by Owner; and any necessary changes, refinements, and supplementation of the Baseline Information set forth at the beginning of this Exhibit A, Engineer and Owner shall discuss, resolve, and document in writing any necessary revisions to Engineer's scope of services, compensation (through application of the provisions regarding Additional Services, or otherwise), and the time for completion of Engineer's services, resulting from the selected solution, related Project Strategies, Technologies, or Techniques, sustainable design and resiliency instructions, specific modifications to the Project, or changes, refinements, or supplementation of the Baseline Information.
- B. Upon written authorization from Owner, Engineer shall:
  - 1. Review and assess all available Project information and data, including any pertinent reports or studies (whether prepared by Engineer or others) and any related instructions from Owner.
  - 2. Based on the threshold review and assessment of available information and data, advise Owner of any need for Owner to obtain, furnish, or otherwise make available to Engineer any additional information and data, for Engineer's use in the preparation of a Preliminary Design Phase Report.
  - 3. Prepare a Preliminary Design Phase Report in the following format: **Summary memorandum and approximately 30% design drawings.**
  - 4. The Preliminary Design Phase Report will consist of final design criteria, preliminary drawings, a preliminary list of expected specifications, and written descriptions of the Project. The Preliminary Design Phase Report will consider the following matters to the extent applicable to the Project and as necessary to establish the basis of design for proceeding to final design and construction:
    - a. The Project concept, intent, performance criteria, desired outcomes, Owner's standards and Owner directed improvements and facility elements as established in the Study and Report Phase and as expressly set forth in the Baseline Information section of this Exhibit A (collectively the "Project Goals").

- b. Recommended appropriate design criteria for each primary portion and significant discipline of the design necessary to address the Project Goals.
  - c. Site conditions and characterization as known at the time of, or to be determined during, the Preliminary Design Phase, including topography; subsurface information; Constituents of Concern; cultural, historical, and archaeological resources at the Site; wetlands information; and evaluations of flora and fauna that may be affected by the Project.
  - d. The time schedule for completion of the Project in accordance with Project Goals, including any recommended changes to the time required to complete the Final Design Phase (as set forth in Exhibit B, Deliverables Schedule) and estimated schedule(s) for construction.
  - e. Identification of major items of materials and equipment, rationale for selection with consideration of quality, suitability, pricing, sourcing, regulatory, and bidding issues affecting recommended selection.
  - f. Revised opinions of probable Construction Cost.
  - g. The impact of Project Strategies, Technologies, and Techniques, sustainable features, and enhanced resiliency selected by Owner for inclusion in the Project on the Project Goals, schedule and probable Construction Cost, including impact of multiple prime construction contracts, separate procurement of materials or equipment, and other alternate project delivery methods when the Project Goals necessitate and Owner authorizes;
  - h. Construction Phase quality assurance and quality control needs affecting development of Drawings and Specifications and other Final Design and Bidding Phase documents.
  - i. The effect of permits and authorizations by other entities and utility coordination needs on the Project.
  - j. Other matters and information pertinent to addressing the Project Goals.
5. In preparing the Preliminary Design Phase Report, use any specific applicable Project Strategies, Technologies, and Techniques authorized by Owner during or following the Study and Report Phase, and include sustainable features and enhanced resiliency, as appropriate, pursuant to Owner's instructions.
6. Visit the Site as needed to prepare the Preliminary Design Phase Report.
7. If at any point in the Preliminary Design Phase it becomes apparent to Engineer that additional reports, data, information, or services of the types described in Article 2 are necessary, then so advise Owner, and assist Owner in obtaining such reports, data, information, or services.
8. Above-Ground Utilities
- a. Review above-ground utilities information obtained from Owner and from observations at the Site.

- b. Make recommendations regarding any further identification, investigation, and mapping of above-ground utilities at or adjacent to the Site, for Engineer's design purposes or otherwise.
  - c. Account for above-ground utilities, based on available information, when advancing design during the Preliminary Design Phase.
9. Underground Facilities
- a. Review Underground Facilities data furnished by Owner. Assist Owner in reducing and managing risks associated with Underground Facilities by working together with Owner to jointly establish a procedure ("Underground Facilities Procedure") for the further identification, investigation, and mapping of Underground Facilities at or adjacent to the Site, using ASCE 38, "Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data," as a basis for establishing such Underground Facilities Procedure.
  - b. Such Underground Facilities Procedure must take into account the Site and the nature of the Project.
  - c. Use the Underground Facilities Procedure to aid in the performance of design services:
    - 1) Account for Underground Facilities, based on available information, when advancing the design during the Preliminary Design Phase.
    - 2) The Underground Facilities Procedure will include a plan to keep Underground Facilities information current as Engineer proceeds with the provision of design services, and to add new or relocated Underground Facilities information to the base utility or Site drawings.
    - 3) To manage the potential impact of design changes on Underground Facilities, Engineer shall work together with Owner to modify or reapply the Underground Facilities Procedure as the design progresses and changes.
10. Mitigation of Utilities Conflicts
- a. Identify potential conflicts between the Project (including existing and new facilities and structures) and above-ground utilities and Underground Facilities as reviewed in Exhibit A Paragraphs 1.03.B.8 and 9 above, and advise Owner regarding the need for resolution of such conflicts with utility and Underground Facilities owners and permit agencies. Identify the potential need for the relocation of existing above-ground utilities and Underground Facilities.
  - b. Update the Underground Facilities Procedure as necessary for any Underground Utilities conflicts and relocations.
  - c. Working together with Owner, jointly identify which specific parties or other entities will be responsible for implementation of the various specific parts of the Underground Facilities Procedure (including those parts that address resolution of Underground Facilities conflicts), and for resolution of above-ground utilities conflicts. Such identification will take into account Owner's authority and standing,

as owner of the Site, with respect to Underground Facilities and above-ground utilities.

- 1) To the extent that Owner and Engineer agree that in addition to performing the design-related obligations set forth in Exhibit A Paragraphs 1.03.B.8 and 9, Engineer will also implement any non-design part of the Underground Facilities Procedure (including resolution of Underground Facilities conflicts), or undertake resolution of above-ground utilities conflicts, such additional duties will be Additional Services under Article 2 of this Exhibit A.

11. Surveys, Topographic Mapping, and Utility Documentation

- a. Coordinate with Owner's utility engineer, utility consultant, or land surveyor for the necessary field surveys, topographic mapping, and utility documentation required for Engineer's design purposes, or by the Underground Facilities Procedure.
- b. If no scope of work and procedure for utility documentation has been established, selected, or authorized, then at a minimum Engineer will contact utility owners and obtain available information. Except as otherwise provided in this Agreement, Owner acknowledges that the information gathered from utility owners may be incorrect, incomplete, outdated, or otherwise flawed, and as to Engineer, bidders, and Contractor, the Owner accepts all associated risks. Owner reserves all associated rights as to recourse against the sources of such flawed information and against third parties.

12. Prepare initial draft of a comprehensive permit document that identifies Owner's permit duties, Engineer's permit duties, and Contractor's permit duties, and the schedule for permitting activities.

13. Continue to assist Owner with Project Strategies, Technologies, and Techniques that Owner has chosen to implement in Exhibit A Paragraph 1.03.A.

14. Obtain Owner's instructions regarding Owner's procurement of construction services (including instructions regarding advertisements for bids, instructions to bidders, and requests for proposals, as applicable), Owner's construction contract practices and requirements, insurance and bonding requirements, electronic transmittals during construction, and other information necessary for the finalization of Owner's Bidding/Proposal Documents and Front-End Construction Contract Documents.

- a. Also obtain copies of Owner's standard Bidding/Proposal Documents and Front-End Construction Contract Documents (if other than the EJCDC 2018 Construction Series documents), and any other related documents or content for Engineer to include in drafts of the Project-specific Bidding/Proposal Documents and Front-End Construction Contract Documents, when applicable.
- b. Review Owner's instructions regarding procurement, bidding and contracting of construction services with respect to effects on the Project design, schedule and construction and address as needed in the Preliminary Design Phase deliverables.

15. Prepare the Preliminary Design Phase Report. This Report will consist of, as appropriate, separate or combined submittals in whole or summary, the Preliminary Design Phase

documents listed in Exhibit A Paragraph 1.03.B.4, and Engineer's findings and recommendations for advancing the Project to the Final Design Phase (including Engineer's findings and recommendations, if any, regarding permitting, utilities, and Underground Facilities). The submittal will be in the format of a report, or otherwise organized and assembled for ease and practicality of use.

- a. Based on the information contained in the Preliminary Design Phase documents, prepare a revised opinion of probable Construction Cost, and on the basis of information furnished by Owner, assist Owner in tabulating the various cost categories which comprise Total Project Costs.
  - b. Engineer will meet with Owner to discuss the draft Preliminary Design Phase submittal and receive Owner's comments.
16. Perform or provide the following other **or specific** Preliminary Design Phase tasks or deliverables:
- a. **Project Kick-off Meeting: This meeting will be in-person and include a site visit to both tank sites.**
  - b. **Data Collection and Review: Information pertinent to the Project design, construction and operation will be received from Owner and reviewed, including:**
    - 1) **Tank sizing requirements.**
    - 2) **Tank base and overflow elevation requirements.**
    - 3) **Tank overflow outlet location requirements.**
    - 4) **Tank operational and control strategies and limitations.**
    - 5) **Tank inlet and outlet flow requirements, including pipe sizing requirements.**
    - 6) **Available electrical power at each site.**
    - 7) **Tank and control vault SCADA and telemetry requirements, including power and porting locations and requirements.**
    - 8) **Limitations on grading or site alterations for each site.**
    - 9) **Owner's standard specifications and details.**
    - 10) **Anticipated construction phase procedures, including available staging and storage areas.**
    - 11) **Stipulations imposed on the Project by applicable funding sources.**
  - c. **Preliminary Tank Siting: For both tank sites, investigate the effect of several alternative tank heights, diameters, and locations for the purpose of seeking an acceptable balance of site feasibility, cost, and grading mass balance. The investigation of each site will be made within the context of other controlling factors applicable to the Project.**
  - d. **Preliminary Design Phase Report Review Meeting: The purpose of this meeting will be to review the Preliminary Design Phase Report design criteria and other background assumptions for the Project and to seek Owner's acceptance of the design criteria as stated in the Preliminary Design Phase Report.**

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Exhibit A—Engineer's Services.

Exhibits to EJCDC® E-500, Agreement between Owner and Engineer for Professional Services.  
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17. Furnish the Preliminary Design Phase Report, opinion of probable Construction Cost, and any other Preliminary Design Phase deliverables to Owner pursuant to the requirements of the Deliverables Schedule in Exhibit B, and review the deliverables with Owner.
  18. Revise the Report and any other deliverables in response to Owner's comments, as appropriate, and submit revised deliverables pursuant to the Deliverables Schedule.
- C. Engineer's services under the Preliminary Design Phase will be considered complete on the date when Engineer has delivered to Owner the final Preliminary Design Phase Report (as revised) and associated documents, revised opinion of probable Construction Cost, and any other Preliminary Design Phase deliverables.

#### 1.04 Final Design Phase

- A. After acceptance by Owner of the Preliminary Design Phase Report and any other Preliminary Design Phase deliverables; issuance by Owner of any instructions for specific modifications or changes in the scope, extent, character, or design requirements of the Project desired by Owner; and any necessary changes, refinements, and supplementation of the Baseline Information set forth at the beginning of this Exhibit A, Engineer and Owner shall discuss, resolve, and document any necessary revisions to Engineer's scope of services, compensation (through application of the provisions regarding Additional Services, or otherwise), and the time for completion of Engineer's services, resulting from specific modifications to the Project, or changes, refinements, or supplementation of the Baseline Information.
1. The number of prime contracts for Work designed or specified by Engineer upon which the Engineer's compensation has been established under this Agreement is **one**. If more prime contracts are awarded, Engineer shall be entitled to an equitable increase in its compensation under this Agreement.
  2. If more than one prime construction contract is to be awarded for the Work designed or specified by Engineer, then Owner shall define and set forth (in an exhibit to this Agreement, or in a subsequent document) the duties, responsibilities, and limitations of authority of a person or entity that will have authority and responsibility for coordinating the activities among the various prime Contractors, and any resulting changes in the duties, responsibilities, and authority of Engineer.
  3. In the event that the Work designed or specified by Engineer is to be performed or furnished under more than one prime construction contract, or if Engineer's services are to be separately sequenced with the work of one or more separate design professional consultants or prime Contractors (such as in the case of fast-tracking), Owner and Engineer shall, prior to commencement of the Final Design Phase, develop a schedule for performance of Engineer's services during the Final Design, Bidding/Proposal, Construction, and Post-Construction Phases in order to sequence and coordinate properly such services as are applicable under such separate prime construction contracts. This schedule is to be prepared and included in or become an amendment to Exhibit A whether or not the work under such construction contracts is to proceed concurrently.

- B. Upon written authorization from Owner, Engineer shall prepare final Drawings and Specifications indicating the scope, extent, and character of the Work to be performed and furnished by Contractor, in accordance with the Preliminary Design Phase Report (as revised) and other Preliminary Design Phase deliverables. As part of the preparation of the Drawings and Specifications, Engineer shall prepare interim drafts and final Drawings and Specifications as follows, pursuant to the Deliverables Schedule in Exhibit B:
1. First Final Design Phase draft of all Drawings and Specifications **at approximately 60% design completion.**
  2. Second Final Design Phase draft of all Drawings and Specifications, addressing Owner comments and including appropriate design advancement, **at approximately 90% design completion.**
  3. Final Drawings and Specifications that address Owner comments; complete the design; are suitable for estimating and pricing by prospective Contractors; and are complete and ready for construction.
- C. In preparing the Specifications (and any bidding, contract, or other documents that are part of Engineer's scope of services), Engineer shall obtain from Owner or Owner's legal counsel any relevant constraints such as requirements for use of domestic steel and iron, other domestic purchasing requirements, statutory restrictions on utilizing proprietary specifying methods, and the like, and comply with or account for such constraints in drafting Specifications, Bidding/Proposal Documents, and other Project documents.
- D. Engineer shall prepare or assemble draft Bidding/Proposal Documents and Front-End Construction Contract Documents as follows:
1. Such documents will be based on the 2018 EJCDC Construction Documents, and on the specific bidding or Contractor selection-related instructions and forms, contract forms, text, or other content received from Owner.
  2. When Engineer is required to use other than the 2018 EJCDC Construction Documents, then as required in the Preliminary Design Phase Owner will furnish to Engineer a copy of the required documents to be used for the Project's Bidding/Proposal Documents and Front-End Construction Contract Documents. Prior to the first Final Design Phase submittal, Engineer will review the bidding and contracting documents furnished by Owner and provide comments to Owner. Engineer will meet with Owner to discuss Engineer's comments. Owner will consider Engineer's recommendations to revise Owner's documents for the Project.
  3. Engineer will furnish to Owner, for review by Owner's legal counsel, the draft Bidding/Proposal Documents and Front-End Construction Contract Documents. Owner and Owner's legal counsel must transmit to Engineer, in a timely manner, one coordinated set of comments and revisions to the draft documents.
- E. During the Final Design Phase the Engineer shall continue to account for above-ground utilities and Underground Facilities as the design advances and is finalized. This may include:
1. performing the services assigned to Engineer under the Underground Facilities Procedure described in Exhibit A Paragraph 1.03 above, including but not limited to the design-related tasks in Exhibit A Paragraph 1.03.B.9.

2. addressing required and proposed activities or mitigations identified in the analysis of utilities and by the Underground Facilities Procedure as having an impact on the final design, and considering such in preparing the Drawings and Specifications.
- F. Engineer shall perform or furnish the following other Final Design Phase services:
1. Visit the Site as needed to assist in preparing the final Drawings and Specifications.
  2. Assist with or prepare applications for permits and approvals, as follows:
    - a. Update comprehensive permit document created in Preliminary Design Phase for Final Design detail.
    - b. Prepare the following applications for Owner's submittal to authorities having jurisdiction over the construction or operation of the Project:
      - 1) **Project Notification Form for submittal to Utah Division of Drinking Water for Pre-construction Plan Review.**
        - a) **Required Drawings and Specifications will be prepared by Engineer.**
        - b) **Required Hydraulic Analysis will be prepared by Owner.**
    - c. Confer with Owner regarding revisions, if any, to the application(s), and make appropriate revisions to the application(s) for Owner's resubmittal to the authority having jurisdiction.
    - d. Provide technical criteria, written descriptions, and design data for Owner's use in filing applications for permits from or approvals of the authorities having jurisdiction listed above, including applications for review or approval of the final design.
    - e. Identify and indicate in the Construction Contract Documents the permits and approvals for which Contractor will be responsible, including work permits, building permits, and other permits and approvals that will be Contractor's responsibility; and, in addition, indicate those permits initially obtained by Owner for which Contractor will be a co-permittee, together with associated requirements.
    - f. Unless expressly indicated otherwise, Engineer's scope and budget includes attending one meeting or conference call with each permit and approval-issuing agency to discuss the Project and receive the agency's comments on the application.
    - g. Engineer does not guarantee issuance of any required permit or approval.
    - h. Fees charged by authorities having jurisdiction for such permits or approvals are the responsibility of Owner.
  3. Advise Owner of any recommended adjustments to the opinion of probable Construction Cost. Furnish to Owner an updated opinion of probable Construction Cost with the interim and final deliverables of the Drawings and Specifications.
  4. After consultation with Owner, include in the Front-End Construction Contract Documents any Electronic Document Protocol addressing specific protocols for the transmittal of Project-related correspondence, documents, text, data, drawings,

information, and graphics, in electronic media or digital format, either directly, or through access to a secure Project website.

5. Assist Owner in assembling known reports and drawings of Site conditions, and in identifying the technical data contained in such reports and drawings upon which bidders or other prospective contractors may rely.
6. Review the preliminary schedule for the Construction Phase and advise Owner when initial understanding of the Construction Contract Times must or should be revised, and furnish Owner with recommendations on revisions to the proposed Construction Contract Times.
7. Engineer's project manager and other appropriate staff will participate in the following meetings and conference calls:
  - a. First draft design review meeting at Owner's office.
  - b. Second draft design review meeting at Owner's office.
  - c. Engineer will prepare and distribute minutes of each such meeting and conference call, indicating attendees, topics discussed, decisions made, and action items for follow-up.
8. Perform or provide the following other **or specific** Final Design Phase activities or deliverables:
  - a. **In preparing Drawings, Engineer will consider the requirements of Utah Drinking Water Rule R309-545 Facility Design and Operation: Drinking Water Storage Tanks.**
  - b. **Prepare site/civil Drawings to include the following:**
    - 1) **General sheets.**
    - 2) **Site plans (basic layout and identification of proposed improvements).**
    - 3) **Tank excavation plans.**
    - 4) **Tank grading cross sections for cut/fill quantities.**
    - 5) **Site grading, drainage, and access plans.**
    - 6) **Inlet and outlet tank piping layouts (the Drawings will show the inlet and outlet piping locations within the tanks and will be designed to stub-out locations approximately ten feet outside the tank footing.**
    - 7) **Tank appurtenance plans (the Drawings will identify the locations of roof vents, access points, hatches, ladders, etc.)**
    - 8) **Site and civil design details.**
  - c. **Prepare tank structural Drawings to include the following:**
    - 1) **For the 4.0MG 8-Mile Hills Tank, design and Drawings will be prepared in accordance with the following criteria and codes:**
      - a) **The tank will be a buried AWWA D115 concrete tank.**

- b) **AWWA D115 “Tendon Pre-stressed Concrete Water Tanks”.**
  - c) **ACI 350.3-20 “Seismic Design of Liquid-Containing Concrete Structures”.**
  - d) **ACI 350-20 “Code Requirements for Environmental Engineering Concrete Structures”.**
  - e) **ASCE 7-16 “Minimum Design Loads and Associated Criteria for Buildings and Other Structures”.**
- 2) **For the 0.5MG Cedar Highlands Tank, design and Drawings will be prepared in accordance with the following criteria and codes:**
- a) **The tank will be a buried conventionally reinforced concrete tank.**
  - b) **ACI 350.3-20 “Seismic Design of Liquid-Containing Concrete Structures”.**
  - c) **ACI 350-20 “Code Requirements for Environmental Engineering Concrete Structures”.**
  - d) **ASCE 7-16 “Minimum Design Loads and Associated Criteria for Buildings and Other Structures”.**
- d. **Prepare control vault Drawings at the 8-Mile Hills Tank to include the following:**
- 1) **Structural drawings.**
  - 2) **Piping and control valve details with appurtenances.**
  - 3) **Pipeline alignment and profiled drawings between the vault and the tank.**
  - 4) **Vault design details.**
- e. **Prepare tank electrical Drawings to include the following:**
- 1) **Electrical power supply locations and required equipment.**
  - 2) **Coordination with Owner’s SCADA designer to identify output locations, conduit needs, panel sizing requirements, etc.**
  - 3) **Tank level measurement/control devices and locations.**
  - 4) **Required electrical and SCADA panels.**
  - 5) **Electrical conduit schedule and location plans.**
  - 6) **Electrical and SCADA element details.**
  - 7) **Owner will provide all services related to designing, specifying, and integrating SCADA equipment and controls.**
- f. **Prepare technical specifications for the civil, structural, and electrical work as Special Provisions where such requirements are not already addressed in Owner’s standard specifications and details.**
- G. **Engineer shall complete the Final Design Phase as follows:**
- 1. **Pursuant to the requirements of the Deliverables Schedule in Exhibit B, furnish for review by Owner, its legal counsel, and other advisors, the final Drawings and Specifications (as set forth in Exhibit A Paragraph 1.04.B.3 above); assembled drafts of**

other Construction Contract Documents including the draft Front-End Construction Contract Documents; the draft Bidding/Proposal Documents; the most recent opinion of probable Construction Cost; and any other Final Design Phase deliverables, and review the deliverables with Owner.

2. Revise the final Design Phase deliverables in response to Owner's comments, as appropriate, and submit revised deliverables pursuant to the Deliverables Schedule.
3. Engineer's services under the Final Design Phase will be considered complete on the date when Engineer has delivered to Owner the final Drawings and Specifications; assembled drafts of the Front-End Construction Contract Documents; the draft Bidding/Proposal Documents; and any other Final Design Phase deliverables, as revised.

1.05 Bidding/Proposal Phase **NOT USED**

1.06 Construction Phase **NOT USED**

1.07 Post-Construction Phase **NOT USED**

## **ARTICLE 2—ADDITIONAL SERVICES**

2.01 Additional Services Not Requiring Owner's Written Authorization

- A. Engineer shall advise Owner that Engineer is commencing to perform or furnish the Additional Services of the types listed below. For such Additional Services, Engineer need not request or obtain specific advance written authorization from Owner. Engineer shall cease performing or furnishing such Additional Services upon receipt of written notice to cease from Owner. These services are not included as part of Basic Services and will be paid for by Owner as indicated in Exhibit J.
  1. Substantive design and other technical services in connection with Work Change Directives, Change Proposals, and Change Orders to reflect changes requested by Owner.
  2. Services essential to the orderly progress of the Bidding/Proposal and Construction Phases and not wholly quantifiable prior to those Phases or otherwise dependent on the actions of prospective individual bidders or contractors and including:
    - a. making revisions to Drawings and Specifications occasioned by the acceptance of substitute materials or equipment other than "or equal" items;
    - b. services after the award of the Construction Contract in evaluating and determining the acceptability of a proposed "or equal" or substitution which is found to be inappropriate for the Project;
    - c. evaluation and determination of an excessive number of proposed "or equals" or substitutions, whether proposed before or after award of the Construction Contract; and
    - d. providing to the Contractor or Owner additional or new information not previously prepared or developed by the Engineer for their use in applying for or obtaining required permits and licenses, in responding to agency comments on such applications, or in the administration of any such permits or licenses.

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Exhibit A—Engineer's Services.

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3. Services resulting from significant delays, changes, or price increases occurring as a direct or indirect result of materials, equipment, or energy shortages.
4. Additional or extended services arising from (a) the presence at the Site of any Constituent of Concern or items of historical or cultural significance, (b) emergencies or acts of God endangering the Work, (c) damage to the Work by fire or other causes during construction, (d) a significant amount of defective, neglected, or delayed Work, (e) acceleration of the progress schedule involving services beyond normal working hours, or (f) default by Contractor.
5. Implement coordination of Engineer's services with other parts of the Project that are not planned or designed by Engineer or its Subconsultants, unless Owner furnished to Engineer substantive information about such other parts of the Project prior to the parties' entry into this Agreement, in the Baseline Information section of this Exhibit A, or otherwise in Exhibit A; if such substantive information has been so provided, coordination of Engineer's services will be part of Basic Services.
6. Implement the specific parts of an Underground Facilities Procedure that are assigned to Engineer, or above-ground utilities tasks that are assigned to Engineer as the Project progresses (but not including the design-related services already assigned to Engineer as a Basic Service).
7. Services (other than Basic Services during the Post-Construction Phase) in connection with any partial utilization of the Work by Owner prior to Substantial Completion.
8. Evaluating unreasonable or frivolous requests for interpretation or information (RFIs), Change Proposals, or other demands from Contractor or others in connection with the Work, or an excessive number of RFIs, Change Proposals, or demands.
9. Reviewing a Shop Drawing or other Contractor submittal more than three times, as a result of repeated inadequate submissions by Contractor.
10. While at the Site, compliance by Engineer and its staff with those terms of Owner's or Contractor's safety program provided to Engineer subsequent to the Effective Date that exceed those normally required of engineering personnel by federal, State, or local safety authorities for similar construction sites.
11. To the extent the Project is subject to Laws and Regulations governing public or government records disclosure or non-disclosure, Engineer will comply with provisions applicable to Engineer, and Owner will compensate Engineer as Additional Services for Engineer's costs to comply with any disclosure or non-disclosure obligations beyond those identified in the Basic Services.
12. Services directly attributable to changes in Engineer's Electronic Documents obligations after the effective date of the Agreement.

## 2.02 Additional Services Requiring Owner's Written Authorization

- A. If authorized in writing by Owner, Engineer shall provide Additional Services of the types listed below. These services are not included as part of Basic Services and will be paid for by Owner as indicated in Exhibit J.

1. Obtain or provide specified additional Project-related information and data to enable Engineer to complete its Basic and Additional Services.
2. Preparation of special and customized reporting, invoicing, and related support documentation in addition to that identified to be provided under Basic Services.
3. Preparation of applications and supporting documents (in addition to those furnished under Basic Services) for private or governmental grants, loans, or advances in connection with the Project; preparation or review of environmental assessments and impact statements; review and evaluation of the effects on the design requirements for the Project of any such statements and documents prepared by others; and assistance in obtaining approvals of authorities having jurisdiction over the anticipated environmental impact of the Project.
4. Services to make measured drawings of existing conditions or facilities, to conduct tests or investigations of existing conditions or facilities, or to verify the accuracy of drawings or other information furnished by Owner or others.
5. Services resulting from significant changes in the scope, extent, or character of the portions of the Project designed or specified by Engineer, or the Project's design requirements, including, but not limited to, changes in size, complexity, Owner's schedule, character of construction, or method of financing; and revising previously accepted studies, reports, Drawings, Specifications, or Construction Contract Documents when such revisions are required by changes in Laws and Regulations enacted subsequent to the Effective Date or are due to any other causes beyond Engineer's control.
6. Services resulting from Owner's request to evaluate additional Study and Report Phase alternative solutions beyond those agreed to in Exhibit A Paragraph 1.02.A.1.
7. Services required as a result of Owner's providing incomplete or incorrect Project information to Engineer.
8. Providing renderings or models for Owner's use, including development, management, and other services in support of building information modeling or civil integrated management.
9. Undertaking investigations and studies including, but not limited to:
  - a. All-hazards risk assessments and other studies to evaluate the feasibility of enhancing the resiliency of the design;
  - b. detailed consideration of operations, maintenance, and overhead expenses;
  - c. the preparation of feasibility studies (such as those that include projections of output capacity, utility project rates, project market demand, or project revenues) and cash flow analyses, provided that such services are based on the engineering and technical aspects of the Project, and do not include rendering advice regarding municipal financial products or the issuance of municipal securities;
  - d. preparation of appraisals;
  - e. with respect to proprietary systems or processes requiring licensing, providing services necessary to assist Owner in obtaining such licensing.

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**Exhibit A—Engineer's Services.**

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- f. detailed quantity surveys of materials, equipment, and labor; and
  - g. audits or inventories required in connection with construction performed or furnished by Owner.
10. Furnishing services of Subconsultants or Engineer's Subcontractors for other than Basic Services.
  11. Providing data or services of the types described in Article 2, when Owner retains Engineer to provide such data or services instead of Owner furnishing the same.
  12. Providing the following services:
    - a. Services attributable to more prime construction contracts than specified in Exhibit A Paragraph 1.04.A.1.
    - b. Services to arrange for performance of construction services for Owner by contractors other than the principal prime Contractor, and administering Owner's contract for such services.
  13. Services during out-of-town travel required of Engineer, other than for visits to the Site or Owner's office as required in Basic Services (Article 1 of Exhibit A).
  14. Preparing for, coordinating with, participating in and responding to structured independent review processes, including, but not limited to, construction management, cost estimating, project peer review, value engineering, and constructability review requested by Owner; and performing or furnishing services required to revise studies, reports, Drawings, Specifications, or other documents as a result of such review processes.
  15. Preparing additional bidding-related documents (or requests for proposals or other construction procurement documents); preparing pre-qualification procedures and documents, and participating in pre-qualifying prospective Bidders; and preparing Construction Contract Documents for alternate bids.
  16. Assistance in connection with bid protests, rebidding, or renegotiating contracts for construction, materials, equipment, or services.
  17. Preparing conformed Construction Contract Documents that incorporate and integrate the content of all addenda and any amendments negotiated by Owner and Contractor.
  18. Services to assist Owner in developing or modifying protocols for transmittal of Electronic Documents by Electronic Means after the effective date of this Agreement, either by revising or adapting Exhibit F to the Project or implementing other Electronic Documents protocols among Project participants.
  19. Any services by Engineer in connection with Owner or Engineer providing a Document to a Requesting Party under Exhibit F Paragraph 1.01.D (see Exhibit F, Electronic Documents Protocol), or any other distribution of a Document to a third party. Such services may include but are not limited to preparing the data contained in the requested Document in a manner deemed appropriate by Engineer; creating or otherwise preparing and distributing the Document in a format necessary to respond to Owner's direction or decision to provide the Document to a requesting party, including Contractor, in a format other than that required for deliverables from Engineer to

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**Exhibit A—Engineer's Services.**

Owner; and services in connection with obtaining required releases from the third parties to which the Documents will be distributed. Compensation for these Additional Services is not contingent upon Owner's reimbursement from the requesting party.

20. Providing Construction Phase services beyond the original date for completion and readiness for final payment of Contractor, but only if such services increase the total quantity of services to be performed in the Construction Phase, rather than merely shifting performance of such services to a later date.
21. Preparing Record Drawings, and furnishing such Record Drawings to Owner.
22. Supplementing Record Drawings with information regarding the completed Project, Site, and immediately adjacent areas obtained from field observations, Owner, utility companies, and other reliable sources.
23. Conducting surveys, investigations, and field measurements to verify the accuracy of Record Drawing content obtained from Contractor, Owner, utility companies, and other sources; revise and supplement Record Drawings as needed.
24. Preparation of operation, maintenance, and staffing manuals.
25. Protracted or extensive assistance in refining and adjusting of Project equipment and systems (such as initial startup, testing, and balancing).
26. Assistance to Owner in training Owner's staff to operate and maintain Project equipment and systems.
27. Assistance to Owner in developing systems and procedures for (a) control of the operation and maintenance of Project equipment and systems, and (b) related recordkeeping.
28. Preparing to serve or serving as a consultant or witness for, or producing documents for or on behalf of, Owner in any litigation, arbitration, mediation, lien or bond claim, or other legal or administrative proceeding involving the Project (but not including disputes between Owner and Engineer).
29. Overtime work requiring higher than regular rates.
30. Providing construction surveys and staking to enable Contractor to perform its work other than as required under Exhibit A Paragraph 1.06.B.9; any type of property surveys or related engineering services needed for the transfer of interests in real property; providing construction and property surveys to replace reference points or property monuments lost or destroyed during construction; and providing other special field surveys.
31. Providing more extensive services required to enable Engineer to issue notices or certifications requested by Owner.
32. Extensive services required during any correction period, or with respect to monitoring Contractor's compliance with warranties and guarantees called for in the Construction Contract (except as agreed to under Basic Services).
33. Other additional services performed or furnished by Engineer not otherwise provided for in this Agreement.

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Exhibit A—Engineer's Services.

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**EXHIBIT B—DELIVERABLES SCHEDULE**

Paragraphs 2.04.E, 3.02.A, and Exhibit A of the Agreement are supplemented by the following paragraph and table.

Engineer shall furnish Documents to Owner as required in Column 2 of the following table (and as further described in Exhibit A), according to the schedule in Column 4. Owner shall comment or take other identified actions with respect to the Documents as indicated in Column 2 (and as further described in Exhibit A), according to the schedule in Column 4.

<b>Party</b>	<b>Action</b>	<b>Exhibit A Reference</b>	<b>Schedule</b>
Engineer	Submit <b>electronic (.pdf format)</b> review copies of the Preliminary Design Report, opinion of probable Construction Cost, and other Preliminary Design Phase deliverables to Owner.	1.03.B.17	Within <b>60</b> days of Owner’s authorization to proceed with Preliminary Design Phase services.
Owner	Submit comments regarding Preliminary Design Report, opinion of probable Construction Cost, and other Preliminary Design Phase deliverables to Engineer.	1.03.B.18	Within <b>14</b> days of the receipt from Engineer of Preliminary Design Report, opinion of probable Construction Cost, and other Preliminary Design Phase deliverables.
Engineer	Submit <b>electronic (.pdf format)</b> copies of the revised Preliminary Design Report, opinion of probable Construction Cost, and other Preliminary Design Phase deliverables to Owner.	1.03.B.18	Within <b>14</b> days of the receipt of Owner’s comments regarding the Preliminary Design Report, opinion of probable Construction Cost, and other Preliminary Design Phase deliverables.
Engineer	Submit <b>electronic (.pdf format)</b> copies of the first Final Design Phase draft of Drawings and Specifications to Owner.	1.04.B.1	Within <b>60</b> days of Owner’s authorization to proceed with Final Design Phase services.
Owner	Submit comments and instructions regarding the first Final Design Phase draft of Drawings and Specifications to Engineer.	1.04.B.1	Within <b>14</b> days of the receipt of the first final Design Phase drafts of Drawings and Specifications from Engineer.
Engineer	Submit <b>electronic (.pdf format)</b> copies of the second Final Design Phase drafts of Drawings and Specifications to Owner.	1.04.B.2	Within <b>60</b> days of the receipt of Owner’s comments and instructions regarding the first Final Design Phase drafts of Drawings and Specifications.
Engineer	Submit <b>electronic (.pdf format)</b> of copies of draft Bidding/Proposal and Front-End Construction Contract Documents, as required, and any other Final Design Phase deliverables (other than Drawings and Specifications) to Owner.	1.04.D.3; 1.04.F.8	Concurrent with submittal to Owner of the second Final Design Phase drafts of Drawings and Specifications.

**Exhibit B—Deliverables Schedule.**

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<b>Party</b>	<b>Action</b>	<b>Exhibit A Reference</b>	<b>Schedule</b>
Owner	Submit comments and instructions regarding the second Final Design Phase drafts of Drawings and Specifications to Engineer.	1.04.B.2	Within <b>10</b> days of the receipt from Engineer of the second Final Design Phase drafts of Drawings and Specifications.
Engineer	Submit <b>electronic (.pdf format)</b> copies of the final, completed, pricing-ready and construction-ready Drawings and Specifications to Owner.	1.04.B.3 and 1.04.G.1	Within <b>45</b> days of the receipt of Owner's comments and instructions regarding the second Final Design Phase drafts of Drawings and Specifications.
Owner	Submit comments and instructions regarding the final, completed, pricing-ready and construction-ready Drawings and Specifications to Engineer.	1.04.G.2	Within <b>10</b> days of the receipt from Engineer of the final, completed, pricing-ready and construction-ready Drawings and Specifications.
Owner	Submit comments and instructions regarding drafts of Bidding/Proposal and Front-End Construction Contract Documents, and any other Final Design Phase deliverables (other than Drawings and Specifications) to Engineer.	1.04.D.3; 1.04.F.8	Concurrent with Owner's submittal of comments and instructions regarding the final, completed, pricing-ready and construction-ready Drawings and Specifications.
Engineer	Submit to Owner: <b>Electronic (.pdf format)</b> copies of the revised final, completed, pricing-ready and construction-ready Drawings and Specifications; and <b>Electronic (.pdf format)</b> of copies of assembled Bidding/Proposal and Front-End Construction Contract Documents, and any other Final Design Phase deliverables.	1.04.G.2  1.04.G.3	Within <b>14</b> days of receipt of Owner's final comments and instructions regarding the regarding the final, completed, pricing-ready and construction-ready Drawings and Specifications, the Bidding/Proposal and Front-End Construction Contract Documents, and any other Final Design Phase deliverables.

Exhibit B—Deliverables Schedule.

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**EXHIBIT C—AMENDMENT TO OWNER-ENGINEER AGREEMENT**

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**AMENDMENT TO OWNER-ENGINEER AGREEMENT**

Amendment No. **[Enter Amendment Number]**

Owner: **[Name of Owner]**

Engineer: **[Name of Engineer]**

Project: **[Name of Project]**

Effective Date of Owner-Engineer Agreement: **[Effective Date of Agreement]**

Nature of Amendment: (Check those that apply)

- Additional Services to be performed by Engineer
- Modifications to services of Engineer
- Modifications to responsibilities of Owner
- Modifications of payment to Engineer
- Modifications to time(s) for rendering services
- Modifications to other terms and conditions of the Agreement

Description of Modifications:

**[Here describe the modifications, in as much specificity and detail as needed. Use an attachment if necessary. Include cost breakdown and documentation, if applicable.]**

Agreement Summary:

Original agreement amount: \$

Net change for prior amendments: \$

This amendment amount: \$

Adjusted Agreement amount: \$

Change in time for services (days or date, as applicable):

Owner and Engineer hereby agree to modify the above-referenced Agreement as set forth in this Amendment. The Effective Date of the Amendment is **[Enter Effective Date of Amendment]**.

Owner

Engineer

\_\_\_\_\_  
(typed or printed name of organization)

\_\_\_\_\_  
(typed or printed name of organization)

By:

\_\_\_\_\_  
(individual's signature)

By:

\_\_\_\_\_  
(individual's signature)

(Attach evidence of authority to sign.)

(Attach evidence of authority to sign.)

Date:

\_\_\_\_\_  
(date signed)

Date:

\_\_\_\_\_  
(date signed)

Name:

\_\_\_\_\_  
(typed or printed)

Name:

\_\_\_\_\_  
(typed or printed)

Title:

\_\_\_\_\_  
(typed or printed)

Title:

\_\_\_\_\_  
(typed or printed)

## EXHIBIT G—INSURANCE

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### ARTICLE 1—INSURANCE

Paragraph 6.04 of the Agreement, Insurance, is supplemented to include the following Exhibit G Paragraphs 1.01 and 1.02:

#### 1.01 Insurance Policies and Limits

- A. In accordance with Paragraph 6.04.A of the Agreement, the insurance that Engineer must procure and maintain, and the policy limits of such insurance, are as follows:

Coverage	Policy limits of not less than:
<b>Workers' Compensation</b>	
State	Statutory
<b>Employer's Liability</b>	
Each accident	\$1,000,000
Each employee	\$1,000,000
Policy limit	\$1,000,000
<b>Commercial General Liability</b>	
General Aggregate	\$2,000,000
Personal and Advertising Injury	\$1,000,000
Bodily Injury and Property Damage—Each Occurrence	\$300,000
<b>Automobile Liability</b>	
Bodily Injury	
Each Person	\$
Each Accident	\$
Property Damage	
Each Accident	\$
Or	
Combined Single Limit	
Combined Single Limit (Bodily Injury and Property Damage)	\$1,000,000
<b>Excess or Umbrella Liability</b>	
Each Occurrence	\$5,000,000
General Aggregate	\$5,000,000
<b>Professional Liability</b>	
Each Claim	\$5,000,000
Annual Aggregate	\$5,000,000
<b>Unmanned Aerial Vehicle Liability Insurance</b>	
Each Claim	\$5,000,000
General Aggregate	\$5,000,000
<b>Other Insurance [Specify]</b>	
Each Claim	\$
General Aggregate	\$

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Exhibit G—Insurance.

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- B. In accordance with Paragraph 6.04.C of the Agreement, the insurance that Owner must procure and maintain, and the policy limits of such insurance, are as follows:

Coverage	Policy limits of not less than:
<b>Workers' Compensation</b>	
State	Statutory
<b>Employer's Liability</b>	
Each accident	<b>\$1,000,000</b>
Each employee	<b>\$1,000,000</b>
Policy limit	<b>\$1,000,000</b>
<b>Commercial General Liability</b>	
General Aggregate	<b>\$2,000,000</b>
Personal and Advertising Injury	<b>\$1,000,000</b>
Bodily Injury and Property Damage—Each Occurrence	<b>\$300,000</b>
<b>Automobile Liability</b>	
Bodily Injury	
Each Person	\$
Each Accident	\$
Property Damage	
Each Accident	\$
Or	
Combined Single Limit	
Combined Single Limit (Bodily Injury and Property Damage)	<b>\$1,000,000</b>
<b>Excess or Umbrella Liability</b>	
Each Occurrence	<b>\$2,000,000</b>
General Aggregate	<b>\$2,000,000</b>
<b>Unmanned Aerial Vehicle Liability Insurance</b>	
Each Claim	\$
General Aggregate	\$
<b>Other Insurance [Specify]</b>	
Each Claim	\$
General Aggregate	\$

1.02 Additional Insureds

- A. Owner shall cause Engineer, its Subconsultants, and its Engineer's Subcontractors to be listed as additional insureds on any of Owner's general liability policies that are applicable to the Project. The following individuals or entities are to be listed on Owner's general liability policies of insurance (and on Contractor's policies required under Paragraph 6.04.D of the Agreement) as additional insureds:

Name of Additional Insured	Address
<b>Sunrise Engineering, Inc.</b>	<b>25 E. 500 N., Fillmore, UT 84631</b>

- B. During the term of this Agreement the Engineer shall notify Owner of any other Subconsultant or Engineer's Subcontractor to be listed as an additional insured on Owner's and applicable Contractor's general liability policies of insurance.
- C. The Owner must be listed on Engineer's general liability policy as provided in Paragraph 6.04.B.

- D. For applicable Contractor's general liability policies of insurance, the additional insured endorsements will include both ongoing operations and products and completed operations coverage through ISO Endorsements CG 20 10 10 01 and CG 20 37 10 01 (together). If Contractor demonstrates to Owner that the specified ISO endorsements are not commercially available, then Contractor may satisfy this requirement by providing equivalent endorsements.
- E. For applicable Contractor's general liability policies of insurance, Contractor shall provide ISO Endorsement CG 20 32 07 04, "Additional Insured—Engineers, Architects or Surveyors Not Engaged by the Named Insured" or its equivalent for Engineer, Subconsultants, and other design professional additional insureds.

## EXHIBIT H—DISPUTE RESOLUTION

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### ARTICLE 1—DISPUTE RESOLUTION METHOD

Paragraph 6.07 of the Agreement, Dispute Resolution, is supplemented to include the following Exhibit H Paragraph 1.01:

#### 1.01 Arbitration

- A. Method for Resolution of Disputes: All Disputes between Owner and Engineer that have not been resolved by negotiations or mediation will be settled by arbitration administered by the American Arbitration Association in accordance with its Construction Industry Arbitration Rules (subject to the conditions and limitations of this Exhibit H Paragraph 1.01). This agreement to arbitrate will be specifically enforceable under the prevailing law of any court having jurisdiction.
- B. Arbitration Provisions
  1. Notice of the demand for arbitration must be filed in writing with the other party to the Agreement and with the selected arbitration administrator. The demand must be made within a reasonable time after the Dispute has arisen. In no event may the demand for arbitration be made after the date when institution of legal or equitable proceedings based on such Dispute would be barred by the applicable statute of limitations.
  2. The arbitrator(s) must be licensed engineers, architects, contractors, attorneys, or construction managers. Hearings will take place pursuant to the standard procedures of the Construction Arbitration Rules that contemplate in-person hearings. The arbitrators will have no authority to award punitive or other damages not measured by the prevailing party's actual damages, except as may be required by statute or the Agreement. Any award in an arbitration initiated under this clause will be limited to monetary damages and include no injunction or direction to any party other than the direction to pay a monetary amount.
  3. If the applicable arbitration rules require a preliminary mediation, but the parties have already participated in mediation with respect to the Dispute, then the second mediation is not required.
  4. The rules of any arbitration must be supplemented to include the following: The award rendered by the arbitrators must be in writing, and include (a) a precise breakdown of the award, and (b) a written explanation of the award specifically citing the Agreement provisions deemed applicable and relied on in making the award.
  5. The award rendered by the arbitrators will be consistent with this Agreement and final, and judgment may be entered upon it in any court having jurisdiction thereof, and will not be subject to appeal or modification.
  6. The arbitrators will have the authority to allocate the costs of the arbitration process among the parties, but will only have the authority to allocate attorneys' fees if a specific Law or Regulation or this Agreement expressly permits them to do so.
  7. The parties agree that failure or refusal of a party to pay its required share of the deposits for arbitrator compensation or administrative charges will constitute a waiver

by that party of the right to present evidence or cross-examine witness. In such event, the other party will be required to present evidence and legal argument as the arbitrator(s) may require for the making of an award. Such waiver will not allow for a default judgment against the non-paying party in the absence of evidence presented as provided for above.

8. Except as may be required by Laws or Regulations, neither party nor an arbitrator may disclose the existence, content, or results of any arbitration hereunder without the prior written consent of both parties, with the exception of any disclosure required by Laws and Regulations or the Agreement. To the extent any disclosure is allowed pursuant to the exception, the disclosure must be strictly and narrowly limited to maintain confidentiality to the extent possible.
9. If a Dispute in question between Owner and Engineer involves the work of a Contractor, Subcontractor, or consultants to the Owner, Subconsultants to the Engineer, or Engineer's Subcontractors (each a "Joinable Party"), and such Joinable Party has agreed contractually or otherwise to participate in a consolidated arbitration concerning this Project, then either Owner or Engineer may join such Joinable Party as a party to the arbitration between Owner and Engineer hereunder. Nothing in this Exhibit H Paragraph 1.01 nor in the provision of such contract consenting to joinder will create any claim, right, or cause of action in favor of the Joinable Party and against Owner or Engineer that does not otherwise exist.

## EXHIBIT I—LIMITATIONS OF LIABILITY

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### ARTICLE 1—LIMITATIONS OF LIABILITY

Paragraph 6.10 of the Agreement is supplemented to include Exhibit I Paragraph(s) **1.01, Mutual Indemnification and 1.02, Limitation of Engineer's Liability:**

#### 1.01 Mutual Indemnification

- A. Indemnification by Owner: To the fullest extent permitted by Laws and Regulations, Owner shall indemnify and hold harmless Engineer and its officers, directors, members, partners, agents, employees, and Subconsultants, and Engineer's Subcontractors, from and against any and all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals, and all court, arbitration, or other dispute resolution costs) arising out of or relating to the Project, provided that any such claim, cost, loss, or damage is attributable to bodily injury, sickness, disease, or death or to injury to or destruction of tangible property (other than the Work itself), including the loss of use resulting therefrom, but only to the extent caused by any negligent act or omission of Owner or Owner's officers, directors, members, partners, agents, employees, or others retained by or under contract to the Owner with respect to this Agreement or to the Project.

#### 1.02 Limitation of Engineer's Liability

- A. Engineer's Liability Limited to Amount of Engineer's Compensation: To the fullest extent permitted by Laws and Regulations, and notwithstanding any other provision of this Agreement, the total liability, in the aggregate, of Engineer and Engineer's officers, directors, members, partners, agents, employees, Subconsultants, and Engineer's Subcontractors, to Owner and anyone claiming by, through, or under Owner for any and all claims, losses, costs, or damages whatsoever (including but not limited to direct, indirect, special, incidental, punitive, exemplary, or consequential damages) arising out of, resulting from, or in any way related to the Project or the Agreement from any cause or causes, including but not limited to the negligence, professional errors or omissions, strict liability, breach of contract, indemnity obligations, or warranty express or implied of Engineer or Engineer's officers, directors, members, partners, agents, employees, Subconsultants, or Engineer's Subcontractors, will not exceed the total compensation received by Engineer under this Agreement.

**EXHIBIT J—PAYMENTS TO ENGINEER FOR SERVICES AND REIMBURSABLE EXPENSES**

**COMPENSATION PACKET BC-1: BASIC SERVICES—LUMP SUM**

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**ARTICLE 1—COMPENSATION PACKET BC-1: BASIC SERVICES—LUMP SUM**

Article 2 of the Agreement is supplemented to include the following Exhibit J Paragraph 1.01:

1.01 Compensation for Basic Services (other than Resident Project Representative)—Lump Sum Method of Payment

A. Owner shall pay Engineer for Basic Services set forth in Exhibit A (except for Resident Project Representative services, if any) as follows:

1. A Lump Sum amount of **\$187,300** based on the following estimated distribution of compensation:

a. Management of Engineering Services	<u>\$ 15,700.00</u>
b. Study and Report Phase	<u>\$ NOT USED</u>
c. Preliminary Design Phase	<u>\$ 60,100.00</u>
d. Final Design Phase	<u>\$ 111,500.00</u>
e. Bidding and Negotiating Phase	<u>\$ NOT USED</u>
f. Construction Phase	<u>\$ NOT USED</u>
g. Post-Construction Phase	<u>\$ NOT USED</u>

2. Engineer may alter the distribution of compensation between individual phases noted herein to be consistent with services actually rendered, but compensation will not exceed the total Lump Sum amount unless approved in writing by the Owner.

3. The Lump Sum includes compensation for Engineer's services and services of Engineer's Subcontractors and Subconsultants, if any. Appropriate amounts have been incorporated in the Lump Sum to account for labor costs, overhead, profit, and expenses (other than any expressly allowed Reimbursable Expenses).

4. In addition to the Lump Sum, Engineer is also entitled to reimbursement from Owner for the following Reimbursable Expenses (see Appendix 1 for rates or charges): **None**.

5. The portion of the Lump Sum amount billed for Engineer's services will be based upon Engineer's estimate of the percentage of the total services actually completed during the billing period. If any Reimbursable Expenses are expressly allowed, Engineer may also bill for any such Reimbursable Expenses incurred during the billing period.

**EXHIBIT J—PAYMENTS TO ENGINEER FOR SERVICES AND REIMBURSABLE EXPENSES**  
**COMPENSATION PACKET AS-1: ADDITIONAL SERVICES—STANDARD HOURLY RATES**

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**ARTICLE 2—COMPENSATION PACKET AS-1: ADDITIONAL SERVICES—STANDARD HOURLY RATES**

Article 2 of the Agreement is supplemented to include the following Exhibit J Paragraph 3.01:

2.01 Compensation for Additional Services—Standard Hourly Rates Method of Payment

- A. Owner shall pay Engineer for Additional Services, if any, as follows:
1. For services of Engineer's personnel engaged directly on the Project pursuant to Exhibit A Paragraph 2.01 or 2.02, except for services as a consultant or witness under Exhibit A Paragraph 2.02.A.28 (which if needed will be separately negotiated based on the nature of the required consultation or testimony), an amount equal to the cumulative hours charged by each class of Engineer's personnel providing such Additional Services times Standard Hourly Rates for each applicable billing class, plus Additional Services-related Reimbursable Expenses and Additional Services-related Engineer's Subcontractors' and Subconsultants' charges, if any.
- B. Compensation for Reimbursable Expenses
1. For those Reimbursable Expenses that are directly related to the provision of Additional Services, and are not already accounted for in the compensation for Basic Services or RPR-related services, Owner shall reimburse Engineer, using the rates set forth in Appendix 1 to this Exhibit J when applicable.
  2. Such Reimbursable Expenses include, to the extent Additional Services-related, the expenses identified in Appendix 1 and the following categories: transportation (including mileage), lodging, and subsistence incidental thereto; providing and maintaining field office facilities including furnishings and utilities; toll telephone calls, mobile phone charges, and courier charges; reproduction of reports, Drawings, Specifications, bidding-related or other procurement documents, Construction Contract Documents, and similar items. In addition, if authorized in advance by Owner, Reimbursable Expenses will also include expenses incurred for the use of highly specialized equipment.
  3. The amounts payable to Engineer for Reimbursable Expenses, if any, will be the Additional Services-related internal expenses actually incurred or allocated by Engineer, plus all invoiced external Reimbursable Expenses allocable to such Additional Services, the latter multiplied by a factor of **1.15**.
- C. Other Provisions Concerning Payment for Additional Services
1. Whenever Engineer is entitled to compensation for the charges of Engineer's Subcontractors and Subconsultants, such compensation will be the amounts billed by Engineer's Subcontractors and Subconsultants to Engineer times a factor of **1.15**.
  2. Factors: The external Reimbursable Expenses and Engineer's Subcontractors' and Subconsultants' factors include Engineer's overhead and profit associated with Engineer's responsibility for the administration of such services and costs.

3. The Standard Hourly Rates and the Reimbursable Expenses Schedule will be adjusted annually (as of **January 1**) to reflect equitable changes in the compensation payable to Engineer for Additional Services-related services and expenses.
4. To the extent necessary to verify Engineer's charges and upon Owner's timely request, Engineer shall make copies of such records available to Owner at cost.

**EXHIBIT J—PAYMENTS TO ENGINEER FOR SERVICES AND REIMBURSABLE EXPENSES**

**APPENDIX 1: REIMBURSABLE EXPENSES SCHEDULE**

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Reimbursable Expenses are subject to review and adjustment per Exhibit J. Rates and charges for Reimbursable Expenses as of the date of the Agreement are:

Mileage (auto)	\$0.59/mile
Field Vehicle (on site)	\$60/day
Per Diem Meals	\$57/day
Troxler Nuclear Density Gauge	\$50/day
High Density Scanner	\$175/hour
Laboratory Testing	Actual Cost x 1.15 Factor
Subconsultants	Actual Cost x 1.15 Factor
Subcontractors	Actual Cost x 1.15 Factor
Aerial Photography	Actual Cost x 1.15 Factor
Meals and Lodging	Actual Cost x 1.15 Factor
Other Expenses	Actual Cost x 1.15 Factor

## EXHIBIT J—PAYMENTS TO ENGINEER FOR SERVICES AND REIMBURSABLE EXPENSES

### APPENDIX 2: STANDARD HOURLY RATES SCHEDULE

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A. Standard Hourly Rates

1. Standard Hourly Rates are set forth in this Appendix 2 to this Exhibit J and include salaries and wages paid to personnel in each billing class plus the cost of customary and statutory benefits, general and administrative overhead, non-project operating costs, and operating margin or profit.
2. The Standard Hourly Rates apply only as specified in Exhibit J.

B. Schedule: Hourly rates for services performed on or after the date of the Agreement are:

<b>Labor Code</b>	<b>Work Classification</b>	<b>Hourly Rate</b>
101	Engineer Intern (E.I.T.) I	\$115
102	Engineer Intern (E.I.T.) II	\$128
103	Engineer III	\$146
104	Engineer IV	\$165
105	Engineer V	\$189
110	Principal Engineer	\$205
121	Electrical Engineer Intern (E.I.T.) I	\$129
122	Electrical Engineer Intern (E.I.T.) II	\$145
123	Electrical Engineer III	\$165
124	Electrical Engineer IV	\$189
125	Electrical Engineer V	\$215
126	Principal Electrical Engineer	\$230
301	Engineering Tech I	\$81
302	Engineering Tech II	\$98
303	Engineering Tech III	\$112
304	Engineering Tech IV	\$139
311	Electrical Tech I	\$100
312	Electrical Tech II	\$115
313	Electrical Tech III	\$135
314	Electrical Tech IV	\$149
315	Electrical Tech V	\$165
351	Construction Observer I	\$71
352	Construction Observer II	\$88
353	Construction Observer III	\$102
354	Construction Observer IV	\$118
401	CAD Drafter I	\$82
402	CAD Drafter II	\$93
403	CAD Drafter/Designer III	\$104
404	CAD Drafter/Designer IV	\$118
500	Funding Specialist	\$145
510	Plan Reviewer	\$129

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Exhibit J—Payments to Engineer for Services and Reimbursable Expenses.

Appendix 2: Standard Hourly Rates Schedule.

Exhibits to EJCDC® E-500, Agreement between Owner and Engineer for Professional Services.

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511	Building Inspector I	\$75
512	Building Inspector II	\$100
513	Building Inspector III	\$125
525	Building Official	\$145
601	GIS Tech	\$79
602	GIS Tech II	\$90
611	GIS Specialist I	\$115
613	GIS Analyst	\$135
614	GIS Programmer	\$129
615	GIS Team Leader	\$149
51	Administrative I	\$46
52	Administrative II	\$61
53	Administrative III	\$76
96	Public Information Manager	\$130
701	Planner I	\$95
702	Planner II	\$110
703	Planner III	\$125
704	Planner IV	\$140
705	Planner V	\$155
723	Water Rights Specialist III	\$145
921	Survey Tech	\$89
930	Survey CAD Tech	\$139
935	One Man Survey Crew	\$165
940	Survey Manager	\$175
945	Registered Surveyor	\$189
950	Principal Surveyor	\$209

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Exhibit J—Payments to Engineer for Services and Reimbursable Expenses.

Appendix 2: Standard Hourly Rates Schedule.

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