American Samoa Power Authority
P.O. Box PPB
Pago Pago, American Samoa 96799
Telephone: (684) 699-3057
Email: procurement@aspower.com
Website: www.aspower.com

ISSUANCE DATE: **May 10, 2024**

RFP NO.: **RFP NO. ASPA24.006 – Upper Pavaiai to Aoloau WW Collection System**

SUBJECT: **Addendum No. 1**

The American Samoa Power Authority hereby issues Addendum No. 1 to amend Request for Proposals (RFP) requirements. This addendum is issued pursuant to the conditions of the RFQ documents and is hereby made part of the RFP. The addendum serves to clarify, revise, and supersede information contained in the RFQ. The Offeror must acknowledge receipt of this addendum in the appropriate space provided in the Addendum Form. Failure to do so may subject the Offeror to disqualification.

1. **The closing deadline has been extended as follows:**

   Closing Deadline: Friday, May 31, 2024 at 2:00PM

2. **Responses received to queries for this tender are attached at the end of this 1st Addendum.**

3. **Scope of Work and Bid Form(s) have both been revised. Please use only the revised forms attached to this First Addendum.**

Should you have any questions or need clarification, please call me at (684) 699-3057 or procurement@aspower.com.

Sincerely,

Renee Leotele Togafau
Procurement Manager

Please sign and date below to acknowledge receiving Addendum 1. You may return this document via email at procurement@aspower.com, or the ASPA Procurement Office.

ACKNOWLEDGEMENT OF RECEIVING ADDENDUM 1

Received by _____, this _____day of _____ 2024.

Company _____ Title _____

Fax No. _____ Email Address _____

ATTACHMENT

BID FORM 2 of 2 - Aoloau including Aasu (Area Two)

TO:	American Samoa Power Authority, Attn: Procurement Manager
ADDRESS:	PO Box PPB, Pago Pago, American Samoa 96799
RFP #:	
BIDDER:	
DATE:	

The undersigned, in compliance with this Request for proposal for the "Upper Pavaiai To Aoloau Collection System - Design" having examined the site of the proposed Work and being familiar with all the conditions surrounding the proposed project, having conducted all inquiries, tests and invistigations deemed necessary and proper; hereby proposes to furnish all labor, permits, material, machinery, tools, supplies, equipment and incidentals, and to perform all Work required for the project in strict accordance with the Request for Proposal and Scope of Work within the time indicated for the following prices below.

No.	DESCRIPTION	UNITS	QTY	UNIT PRICE	TOTAL PRICE
1	**Mobilization/Demobilization** (max 5% of bid for area two), conforming to section B in SOW	**LS**	**1**		
2	**Conceptual Drawings** , conforming to section C in SOW	**LS**	**1**		
3	**Land Survey** - estimated LF of mainline and service lateral, conforming to section D in SOW (potholing not included)	**LF**	**27,000**		
3A	**Land Survey Potholing** - conforming to section D in SOW (potholing only)	**EA**	**5**		
4	Construction Design, Plans and Specifications - **Lift Station and Force Main** - conforming to section E in SOW	**EA**	**2**		
5	Construction Design, Plans and Specifications - **Gravity Main with Manholes** - conforming to section E in SOW	**LF**	**12,000**		
6	Construction Design, Plans and Specifications - **4 inch Service Lateral** (from gravity main to house/building) - conforming to secction E in SOW	**EA**	**150**		
7	Construction Design, Plans and Specifications - **Home/Building Connections and Septic Tank or Cesspool Demolition** - conforming to section E of SOW	**EA**	**150**		
TOTAL BID:				**$**	

(Amount in Words)

ATTACHMENT

BID FORM 1 of 2 - Upper Pavaiai (Mapusagafou, Tafeta) Not Including Aoloau (Area One)

TO:	American Samoa Power Authority, Attn: Procurement Manager
ADDRESS:	PO Box PPB, Pago Pago, American Samoa 96799
RFP #:	
BIDDER:	
DATE:	

The undersigned, in compliance with this Request for proposal for the "Upper Pavaiai To Aoloau Collection System - Design" having examined the site of the proposed Work and being familiar with all the conditions surrounding the proposed project, having conducted all inquiries, tests and invistigations deemed necessary and proper; hereby proposes to furnish all labor, permits, material, machinery, tools, supplies, equipment and incidentals, and to perform all Work required for the project in strict accordance with the Request for Proposal and Scope of Work within the time indicated for the following prices below.

No.	DESCRIPTION	UNITS	QTY	UNIT PRICE	TOTAL PRICE
1	**Mobilization/Demobilization** (max 5% of bid for area one), conforming to section B in SOW	**LS**	**1**		
2	**Conceptual Drawings** , conforming to section C in SOW	**LS**	**1**		
3	**Land Survey** - estimated LF of mainline and service lateral, conforming to section D in SOW (potholing not included)	**LF**	**41,000**		
3A	**Land Survey Potholing** - conforming to section D in SOW (potholing only)	**EA**	**5**		
4	Construction Design, Plans and Specifications - **Lift Station and Force Main** - conforming to section E in SOW	**EA**	**2**		
5	Construction Design, Plans and Specifications - **Gravity Main with Manholes** - conforming to section E in SOW	**LF**	**14,000**		
6	Construction Design, Plans and Specifications - **4 inch Service Lateral** (from gravity main to house/building) - conforming to secction E in SOW	**EA**	**275**		
7	Construction Design, Plans and Specifications - **Home/Building Connections and Septic Tank or Cesspool Demolition** - conforming to section E of SOW	**EA**	**275**		
TOTAL BID:				**$**	

(Amount in Words)

AMERICAN SAMOA POWER AUTHORITY

SCOPE OF WORK

UPPER PAVAIAI TO AOLOAU
WW COLLECTION SYSTEM - DESIGN

I. BACKGROUND

This design project will capture the area from Upper Pavaiai, Mapusaga, Mapusagafou, Tafeta, Aoloau and Aasu. The Mapusagafou and Pavaiai village area is in one of the largest watersheds on Tutuila. Relatively high amounts of rainwater recharge occur here. Keeping this abundant source of fresh clean water free of contaminants is a high priority for ASPA, ASG and all the residents of the island of Tutuila.

Over the years ASPA had installed Water Wells within the vicinity of the area and there is a need to protect the underground water from wastewater (WW) contamination. Furthermore, ASPA plans to install more Water Wells in the villages of Mapusagafou and Pavaiai.

The project will focus on the design of a proper and efficient WW collection system to remove all the cesspools and septic tanks to address water quality issues within the area demarcated on the location map below.

II. PROJECT LOCATION

The project is located within the Central Wastewater Collection System. The project shall capture the upper portion of the village of Pavaiai, the village of Mapusaga, Mapusagafou, the Tafeta area and the village of Aoloau and Aasu shown within the light blue boundary in the map below. The map below also shows the existing sewer collection system manholes as red circles located in the lower portion of the village of Pavaiai.

III. SCOPE OF WORK (SOW)

A. GENERAL

1. ASPA has issued this RFP for A/E services from a professional consultant firm with experience in designing sewage pump/lift stations, sewage force mains and gravity flow sewage collection systems. The design shall include all process control, mechanical, electrical, and structural components and related appurtenances to allow the facilities to be functional and operable according to ASPA maintenance and operation capabilities and requirements. Appurtenances shall include but will not necessarily be limited to access facilities, fencing, lighting, water connections and power supply including emergency power. The design shall be in accordance with the Ten State Standards, Wastewater Pollution Control Federation, USEPA or other comparable standards. The proposal shall include all personnel, travel, equipment, supplies, overhead and related costs necessary to complete this SOW. The project is split into two areas:

    i. Area one is referred to the Upper Pavaiai Village Area including Mapusaga, Mapusagafou and Tafeta. Essentially it includes all homes not yet connected to the existing sewer system in this area (within the red boundary shown below).

    ii. Area two is the Aoloau Village Area which includes Aasu village (within the blue boundary shown below).

2. In general the selected firm shall accomplish and provide conceptual drawings to connect all homes to the existing WW system in Area one and Area two. However, there may be a few remote homes that cannot be feasibly connected to the sewer system. From the approved conceptual drawings, the firm shall also provide a design to connect as many homes in the project area as feasible to a new WW collection system that will flow into the existing WW collection system located in the village of Pavaiai. The goal is to remove all cesspools and septic tanks. The project is in two phases.

    i. Phase 1, for each area one and two, shall be to produce the WW collection system **"Conceptual Drawings"** (see section C below).

    ii. Phase 2, for each area one and two, shall be to produce the WW collection system **"Construction Design, Plans and Specifications"** (see section E below).

3. The exact amount and length of the new collection system including: gravity mains, service laterals, homes to connect, pump/lift stations and sewage force mains are unknown at this time. That is why Conceptual Drawings are required first.

    i. The amount and length of the collection system facilities shall be more accurately determined after the Conceptual Drawings are finalized and approved of by ASPA and EPA.

4. Once the Conceptual Drawings are complete, the selected firm shall know more precisely the amount, length and approved route of the collection system and its facilities, which the firm shall then take this information, and produce the Land Survey and the Construction Design, Plans and Specifications as explained in section D and E.

5. For Offerors to bid a cost to produce the Land Survey (section D), ASPA estimated lengths are shown on the bid forms. Estimated lenghths of proposed collection system facilities (mains plus service laterals) and homes/buildings to survey with an offset survey of 20 ft around and on either side of the new collection system facilities and homes/buildings.

6. For Offerors to bid on the Construction Design, Plans and Specifications (section E), ASPA understands that the amount and length of collection system and facilities must be given by ASPA.

    i. Therefore, For Bidding Section E – Construction Design, Plans and Specifications, ASPA provides the following estimated amounts and lengths:

        - For each Area one and two - Two lift stations similar to the latest constructed lift stations in the village of Aua. This existing Aua lift station layout shall be provided by ASPA to the winning bidder.

        - Each lift station includes corresponding sewage force main approximately 1000 feet long.

            - The lift station designs shall also include measures and components to allow for the connection and monitoring by the existing ASPA SCADA System. The specs for the ASPA SCADA System shall be provided to the winning bidder. The SCADA design shall be coordinated with and approved by the ASPA SCADA technician.

            - If an additional lift station and force main design is required, the firm shall be compensated by using this line item unit cost.

        - Gravity sewer mains with manholes. Estimated gravity main length is shown on the bid forms. Approximately half of this is estimated to be within the ASG paved roadway and the other half located along private driveways.

            - If additional gravity sewer main, service laterals and home connections are required, the firm shall be compensated using this bid line item's unit cost.

- 4 inch service laterals can run between 50 ft and 300 ft long with the average estimated at 100 ft long. It is estimated, for Area one, 275 homes/buildings will be connected. 275 multiplied by 100 ft is equal to an estimated 27,500 ft of service lateral. It is estimated for Area two, 150 homes/buildings will be connected. 150 multiplied by 100 ft is equal to 15,000 ft of service lateral.

ii. To cover the costs of additional WW collection system and facilities ASPA can provide a Change Order at that time corresponding to the bid item's unit costs if approved of by EPA and ASPA.

7. ASPA shall provide selected firm with the following:

i. Schematic maps of the existing central area WW collection system and the Water Distribution system. Accuracy of maps vary. Some maps are accurate to within one foot, and other maps are accurate to within 5 feet. Some of the WW and Water utilities have been surveyed and others not. Selected firm shall verify accuracy of the maps provided.

ii. If there is any other underground utility, ASPA can assist with obtaining contact information.

iii. The Utilities Master Plan 2003" (Attached to this RFP). Note, many figures in the 2003 plan are not shown and have been deleted from the 2003 Plan.

iv. An ASPA staff and contact person, the ASPA Project Engineer, to work closely with the selected firm.

v. ASPA Wastewater Department documents related to our design standard details and specifications.

vi. Water consumption information.

vii. Note, The WW Utility Plan is currently ongoing by JUB Engineers out of Utah. ASPA will provide their contact information. The WW Utility Plan will include WW loading and flow calculations from this Upper Pavaiai to Aoloau collection system project. Therefore, selected firm shall collaborate with JUB and agree on these WW related flow and other calculations.

viii. Right of way (ROW) services.

- ASPA ROW will be required throughout the conceptual drawings, land survey and design process.

- ASPA ROW work is critical, because for one, the project covers a relatively large area. There are many different landowners and a few

different village councils to deal with. Approximately ninety percent of the land here is communal owned land. The rest is privately owned and government owned land.

- Once the Conceptual Drawing is complete, the ASPA ROW staff will assist selected firm in gaining access to landowner's properties to conduct land survey and other necessary field work related to the project design.
- ROW shall provide the easements, if needed, signed by landowner to proceed with land survey/design work.
- Any assistance from the ASPA ROW staff throughout the project must be requested at least two days ahead of time.
- Note, if there are any landowner issues, the ASPA ROW must be contacted to handle the situation.

ix. ASPA Archaeology services.

- After the Conceptual Design is complete the ASPA Archaeology staff can verify which routes are cleared archaeologically and which routes remain to be cleared.
- Some routes may be determined un-accessible do to existing archaeology, which the ASPA staff will verify.

8. At the beginning of the project, the selected firm shall submit a well thought out timeline/schedule of critical task completion milestones with summary descriptions approved by ASPA.

9. The selected firm shall familiarize itself with the American Samoa Government (ASG), ASPA, the project area (terrain, the villages) and the public wastewater system, the public water system, other nearby utilities and other elements that may have an impact on this project.

10. The selected firm shall meet regularly with ASPA and the ASPA Project Engineer, at least once a month to discuss project schedule, progress, proposed design and any issues that may arise.

11. Bid submission indicates familiarity with and acceptance of existing conditions in American Samoa, the project site and at ASPA. No claim for additional compensation will be allowed which is based upon a misunderstanding or lack of knowledge by the Offeror.

12. The selected firm will develop, as lead by and recommended by their professional Engineer of Record (EOR) conceptual drawings, detailed designs for construction, specifications, cost estimates, SOWs for the Owner for the purpose of Tendering such as the Materials Request for Quotes (RFQ), and Construction Bidding documents.

B. MOBILIZATION AND DEMOBILIZATION

1. For each Area One and Two, the work consists of the mobilization and demobilization of the contractor's forces and equipment necessary for performing the work required under this design contract. It does not include mobilization and demobilization for specific items of work for which payment is provided elsewhere in the contract.

2. Mobilization shall include all activities and associated costs for transportation of contractor's personnel, equipment, and operating supplies and expenses to the site; permits, premiums paid for performance and payment bonds including coinsurance and reinsurance agreements as applicable; and other items specified in the contract documents.

3. Demobilization shall include all activities and costs for transportation of personnel, equipment, and supplies not required or included in the contract from the site; including the disassembly, removal, and site cleanup of offices, buildings, and other facilities assembled on the site specifically for this contract.

4. Measurement for payment shall be made as a lump sum (LS). Payment will be made as the work proceeds, after presentation of paid invoices or documentation of direct costs by the contractor showing specific mobilization and demobilization costs and supporting evidence of the charges of suppliers, subcontractors, and others. When the total of such payments is less than the lump sum contract price, the balance remaining will be included in the final contract payment. Payment of the lump sum contract price for mobilization and demobilization will constitute full compensation for completion of the work in this section. Payment will not be made under this item for the purchase costs of materials having a residual value, the purchase costs of materials to be incorporated in the project, or the purchase costs of operating supplies.

C. CONCEPTUAL DRAWINGS

1. For each Area One and Two, the selected firm shall produce Conceptual Drawings (CD) of two alternative collection system routes, including the recommended collection system route and approved by ASPA.

    i. Selected firm shall prepare CD using digital elevation modeling and our contour T-Maps of the area.

ii. One alternative could be along the government roadway and along home driveways and perhaps another one could try and follow more the slope of the land going in between homes.

iii. The CD preparation will probably go through three reviews (back and forth) between firm and ASPA before selecting the final two CD including the recommended one for construction.

iv. The CD shall minimize use of pump/lift stations with force mains and maximize the use of gravity flow sewer mains with manholes.

v. The CD shall include: 1) A map – a clear aerial imagery view of the proposed collection system route, 2) rough/conceptual-level, plan and profile sheets, 3) approximate materials and construction cost, and 4) the approximate operations and maintenance cost.

vi. Note, the main vehicle roadway is the government ASG property therefore right of way issues are minimized.

vii. The CD shall assess two collection system route alternatives and from these two select the recommended route. This process of selecting the recommended route shall be explained in a 3 page report. The key assumptions and reasoning behind the recommended report shall include but it is not limited to the following:

- Number of lift stations, manholes, and length of pipes
- Buildings and homes served and their general location
- approximate land ownership locations and village boundaries
- explanation of the general physical, biological, economic and social environments
- existing WW collection system and their locations
- easier right of way access
- wastewater characteristics
- regulatory requirements
- construction cost estimates
- operation and maintenance cost estimate - one year's worth
- general environmental impacts and recommended mitigation

2. The ASPA ROW staff will use the recommended CD to obtain village and landowner access approval to the corresponding collection system route.

    i. Note, it will take about two to three weeks for ASPA ROW to collect the first large batch of landowner access approvals.

    ii. After this, the selected firm can begin their land survey for design purposes.

3. The ASPA Archaeology staff want to be kept informed of any proposed collection system routes and they will use the recommended CD to verify which routes are cleared archaeologically and which routes remain to be cleared.

    i. This work by ASPA Archaeology staff will take about two weeks to complete.

4. Note, ASPA ROW and Archaeology may recommend CD re-routing in some areas, which the selected firm shall take into consideration and then determine alternate routes.

D. LAND SURVEY

1. For each Area One and Two, the selected firm will be doing detailed topographic survey, civil 3d database and GIS shape files for the project sites that will affect the generation of the hydraulic calculations and construction designs.

2. This section shall cover the complete costs of providing all labor, equipment and materials required to complete all survey work needed for the design required under this SOW. It shall be the selected firm's responsibility to have a Registered Surveyor and have a lead surveyor who has a business license in American Samoa to coordinate and work with ASPA's Survey Department to make sure all survey output is in conformance to ASPA's survey standards, standard datum and coordinates and compatible with ASPA Survey's software, Traverse PC.

3. Limited Potholing: The selected firm shall perform five (5) exploratory excavations as required to collect schematic map and as-built information to verify the depth, location, alignment, size, and material of existing underground utilities or structures. Locate the existing utility, verify the required information, backfill the excavation, and restore the surfacing equal or better condition, suitable for traffic (if along roadway) as required by DPS/DPW. The firm shall waive ASPA from any liabilities resulting from inaccuracy and poor data gathering required under this section. Any damages to existing utilities during potholing is paid by the firm. The selected firm shall secure the DPW/DPS Permit to Perform potholing work in ASG roadway ROW.

4. Other utilities and structures: The survey shall also include but not limited to all existing underground utilities, storm drains, bridge/stream crossings, existing asphalt/concrete

pavement, sidewalk, curb & gutter, gravel driveway, fences, rock wall, plants/grass, trees, power/communication line and pole and all structures that may be affected during installation of WW mains and service lines. Survey includes survey of potholing locations.

5. Database: The survey shall also include raw data in Excel format containing survey descriptions such as but not limited to; Unique ID, X-coordinate, Y-coordinate, Z-coordinate, Description and Size, etc.

6. The firm shall provide a comprehensive land survey to fully describe the physical environment of each business, building, home, septic tank, and cesspool within the proposed collection system.

E. CONSTRUCTION DESIGN, PLANS AND SPECIFICATIONS

1. For each Area One and Two, based on the thorough land survey and using ancillary data available for water use patterns and quantities, a water use and wastewater flow estimate shall be developed in collaboration with JUB Engineers who are currently preparing the WW Utility Plan. The current and future water use and wastewater flow estimate shall be projected out to 20 years in the future.

2. Construction Design and Plans: Detailed design engineering/architectural drawings for construction will be prepared for all facilities under this RFP. All drawings shall be prepared in accordance with Standard US Industry Practices for civil, structural, electrical, mechanical, highway, and environmental engineering design. The drawings shall include but not necessarily be limited to plan and profile sheets, site layouts, engineering data, material takeoff lists, observed geotechnical findings, hydraulic and energy profiles, hydraulic model, schematics, process diagrams and descriptions, standard details, and electrical schematics and one-line diagrams. Design drawing shall include connection to existing mains, tie-in scheme, relevant specific details and the tie-in steps/methods.

3. Specifications: Technical Specifications shall be prepared for all items to be designed and/or or included in the Invitation for Bid for construction for the facilities and/or infrastructures. The construction specifications shall be prepared according to the most recent Construction Standards Institute (CSI) format. In addition, any special conditions that must be addressed or followed in order to construct the facilities shall be identified in the specifications.

4. Construction Bid Form/Schedule: Once the Construction Design Plan is substantially completed, a draft Construction Bid Form/Schedule shall be prepared that includes all pertinent items included in the construction plans and specifications. The Construction

Bid Form/Schedule shall be prepared for a unit cost, firm fixed-price contract and allow ASPA to utilize it as the basis for a construction contract for the facilities designed under this RFP.

5. Schedule: Design work activities/tasks, as provided by the A&E Firm in their proposal, shall be appropriately highlighted in the schedule.

6. Erosion Control and Drainage**:** Erosion control and drainage measures and facilities shall be included in the design including drainage structures, retaining walls, pipe dams, stream bed protection and other elements that will ensure erosion control and drainage is accomplished according to best management practices applied for similar projects or infrastructure.

7. General Surface Observational and Historical Geotechnical Analysis**:** The selected Firm shall conduct a general surface observational and historical geotechnical analysis of selected areas along the proposed collection system (along with service lines) route to allow general determination of soil conditions, including presence of rock, and the impact of findings on design, construction and maintenance, presence of groundwater. Based on the findings, the analysis will briefly explain in two pages, and firm shall incorporate the general geotechnical considerations into the construction cost estimate.

8. Restoration and Repair: The design shall include all necessary restoration and/or repair for existing paved roads, utilities, driveways, curbs, sidewalks, walls, fences and other infrastructure that may need to be removed and/or replaced and conduct the work as set forth in the project scope of work. Lawns, gardens and other items that may pose an obstruction will be included in restoration. For reference on specifications, test protocols, and guidelines, refer to the latest and most current edition of the American Association of State Highway and Transportation Officials (AASHTO) Manual– A Policy on Geometric Designs of Highway and Streets – also known as the “Green Book”.

9. Engineer’s Cost Estimates: Once the Design Plan is substantially completed, a detailed engineer’s cost estimates shall be prepared in accordance with the items included in the draft construction bid form/schedule that conforms to applicable industry standards such as RS Means Estimating Manuals and Guidelines. Appropriate indexes that account for inflation and other factors that are pertinent to American Samoa including special logistical constraints are to be included. A&E firm shall also provide a Material List of all materials required to complete construction to allow ASPA to utilize it for a Request for Quotes (RFQ). Cost estimates shall include capital costs, annual O&M costs, and annual O&M costs per 1000 gallons WW.

10. Value Engineering: In accordance with USEPA Federal Funding Requirements, a Value Engineering Analysis (VEA) shall be completed for the facilities to be designed and upgraded. The VEA will strive to ensure the design results in maximum cost efficiency for operation and maintenance of the facilities.

11. Design Calculations: Provide engineering analysis (structural, geotechnical, hydrological and hydraulic (H&H), etc.) and design calculations for all and every infrastructure necessary to complete the requirement of this scope of work such as but not limited to: concrete encasement, reinforce concrete jacket, pavement design, thrust block, pipe support/hangers, box culvert, concrete vault, gratings, pipe bedding, pipe buoyancy protection and as requested by ASPA.

12. Design Presentations: Selected firm shall provide four presentations, one of the 30% CD, the second on the final CD, the third on the 60% design, the fourth on the 90% design. After each presentation firm shall incorporate review comments from ASPA into the next updated design draft. Each presentation should last approximately one hour, in person or virtually.

13. Septic Tank and Cess Pool Decommissioning: Design shall include a detail showing septic tank and cess pool decommissioning.

14. Offeror shall provide one Post Design presentation of the final ASPA approved Design.

    i. The presentation is for the ASPA Executive Director, and engineering staff for up to 15 people. The presentation includes a 3 to 5 page summary explanation of the design with schematics.

    ii. The presentation shall last up to 2 hours, first half to provide a clear explanation of the design and its highlights and the second half to include a question and answer period. Presentation/workshop can be “in person” or by video conference including an agenda.

    iii. Presentation shall be conducted by the Firm’s main contributors to the design as well as the professional licensed staff who approved the report. The goal is for the audience to thoroughly understand the design, the design’s analysis of the ASPA WW System, recommended routes and it’s facilities and associated implementation impacts and related topics.

15. Minimum Deliverables:

    i. Note, the selected firm shall keep design, project documents, and report sections sized 25MB or less to make emailing sections of the report easier.

    ii. Detailed Architectural and Engineering Construction Plans on 24” x 36” Bond Paper stamped by a U.S. Registered Professional Engineer (EOR) or Registered Architect (RA) for all pertinent items within the SOW as required.

    iii. A 3 to 5 page summary of Design with schematics.

iv. A Value Engineering Analysis for the completed design stamped by EOR as required.

v. A Bid Schedule for finite components of the system and facility upgrades, and significant tasks within the SOW.

vi. A detailed cost estimate for all items in the Bid Schedule including direct cost, overhead, contingencies, profit, bonding and shipping;

vii. A schedule for provision of the deliverables by the Consultant to ASPA in Gantt and PERT Chart formats.

viii. Conceptual drawings, engineered and EOR stamped documents related to the design such as hydraulic modeling report, value-engineering analysis, calculations, technical specifications and standards.

ix. Detailed technical specifications, stamped by a registered US Registered Professional Engineer as mentioned above.

x. An Operations Plan outlining methods and means by which the facilities will be operated and maintained within the resources and/or capabilities of ASPA.

xi. Operation and Maintenance manuals addressing all mechanical, process and control components for the pump/lift stations.

xii. Milestone schedule and timeline to completion with summary descriptions. Updated at least every couple months.

xiii. Post report presentation on PowerPoint slides, summary and agenda.

xiv. Three (3) hard bound copies and electronic copies (i.e. AutoCAD, pdf, Excel spreadsheet, ArcGIS) of report, summary, maps, tables, figures and all deliverables.

xv. Other items as necessary/required.

16. The design shall be submitted in logical increments similar to the following:

i. Milestone schedule and timeline
ii. 30% submittal
iii. 60% submittal
iv. 90% submittal
v. Final draft submittal. Final report is complete once ASPA and USEPA approves of and signs Final submittal.

vi. Each submittal will be followed by an ASPA review with comments within 20 calendar days. These comments shall be addressed and incorporated into the next submittal if recommended. Also, an ASPA comment and selected firm response list shall be maintained and shared with ASPA.

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No.	**Question**	**Answer:**
1	What is the funding source for the project? Does the funding source have any time constraints?	The project is funded by a grant from the USEPA. There are no time constaints on this project due to funding.
2	What is the schedule for the project?	The project is tentatively scheduled to begin around August 2024 with a duration time of about 9 to 11 months.
3	What is the schedule for the proposal/bidding process? When do you all plan to make a decision on the winning proposal, and sign a contract?	Upon closing, an SEB convenes and may take anywhere from 2-3 weeks to submit a recommendation. Grantor reviews the recommendation which may be an additional 2 weeks. If approved, bid is reviewed in house by the Executive Director, and depending on the amount of the bid, is forwarded to the Board of Directors for final approval. With that said, an award letter can take anywhere from 4-6 weeks from the closing date. If additional time is required, bidders will be notified.
4	Are you planning to have a pre-proposal meeting?	If necessary this is possible, but looks like all questions are being anwered through this RFI process.
5	The RFP documents indicate that emergency power for the sewage pump/lift stations is required. Please clarify how much on-site fuel storage for emergency power is required at each sewage pump/lift station.	No required on-site fuel storage for emergency power. Design includes a portable standby generator and it's manual connection point. This standby generator will be stored at the ASPA yard and brought to the site when needed then manually connected. When this generator is brought to the site, design shall include the concrete pad that it will sit on.
6	The RFP document indicate that the design shall also include measures and components to allow the sewage pump/lift stations to be connected to and monitored by the existing ASPA SCADA system. Please provide information regarding the existing ASPA SCADA system (e.g., manufacturer, model #, etc...)	SCADA software is Ignition SCADA (Inductive Automation). Controller - can use Siemens S7 1200 PLC. For a VFD - use a Danfoss drive with Profinet Communiation Card. Other required SCADA information shall be provided to the winning bidder.
7	The RFP document indicate that the design shall also include measures and components to allow the sewage pump/lift stations to be connected to and monitored by the existing ASPA SCADA system. Please clarify the ASPA SCADA system connectivity and monitoring requiremetns that need to be incorporated into the design.	Required SCADA information shall be provided to the winning bidder.
8	What is the minmum and maximum setback from the road into the property for installation of sewer line?	Sewer main along ASG road has a ROW of 10 foot maximum setback from the edge of the road into the adjacent property for sewer installation. There is no minimum setback.

9	Limited potholing, perform 5 exploratory excavations. Is it allowed to do more for the design?	See revised bid form, which separates the Land Suvey Potholing. Then if the winning bidder decides it is necessary to do more potholing, it can be discussed at that time.
10	Who will be doing the construction management and inspections?	Most likely ASPA will do the construction management. ASPA will do inspections.
11	How will material be procured?	ASPA Procurement will post a competative Request for Quotes (RFQ) on the ASPA website and follow the standard selection and contract process.