

**PROJECT AGREEMENT**

**Between**

**THE CITY OF SUNRISE**

**and**

**BROWN AND CALDWELL (CORPORATION)**

**For**

**PROJECT AGREEMENT NO. PA-24-001-BC**

**LIFT STATION 127 BASIN IMPROVEMENTS**

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Pursuant to the provisions contained in the Continuing Services Agreement between the City of Sunrise (“City”) and Brown and Caldwell (Corporation) (“Consultant”) for Professional Services – Water, Wastewater, Wastewater Reuse and Natural Gas Utilities Projects (hereinafter referred to as “Continuing Services Agreement”) dated May 7, 2021, this Project Agreement (hereinafter referred to as “Agreement”) authorizes the Consultant to provide the services as set forth below:

**SECTION 1 INCORPORATION OF CONTINUING SERVICES AGREEMENT**

- 1.1 All terms and conditions of the Continuing Services Agreement between the City and the Consultant dated May 7, 2021, not specifically modified by this Agreement shall remain in full force and effect and are incorporated into and made a part of this Agreement by this reference as though set forth in full.

**SECTION 2 CONSULTANT’S BASIC DUTIES TO CITY**

- 2.1 By executing this Agreement, the Consultant represents to the City that the Consultant is professionally qualified to act as the Consultant for the Project (hereinafter referred to as “the Project”) and is licensed to practice engineering by all public entities having jurisdiction over the Consultant and the Project. The Consultant further represents to the City that the Consultant will maintain all necessary licenses, or other authorizations necessary to act as Consultant for the Project until Consultant’s duties hereunder have been completed. The Consultant shall be responsible for providing all necessary subconsultants required for the successful completion of the work as outlined in EXHIBIT “1,” Scope of Services. The Consultant assumes full responsibility to the City for the improper acts, negligence, and omissions of its subconsultants and of all others employed or retained by the Consultant in connection with the Project.
- 2.2 Execution of this Agreement by the Consultant constitutes a representation that the Consultant has become familiar with the Project site and the local conditions under which the Project is to be implemented.

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Authorized Consultant Representative’s Initials: \_\_\_\_\_

2.3 THIRTY PERCENT DESIGN DOCUMENTS

- 2.3.1 The Consultant shall review and examine the information, including any desired schedule and budgetary requirements, furnished by the City to understand the requirements of the Project and shall review its understanding of such requirements with the City.
- 2.3.2 The Consultant shall furnish to the City a preliminary written evaluation of such information in light of any Project budget requirements.
- 2.3.3 The Consultant shall review and discuss with the City any alternative approaches to design and construction of the Project.
- 2.3.4 The Consultant shall prepare and submit to the City for its review 30% design documents consisting of drawings and other documents illustrating the scale and relationship of proposed Project components. The Consultant shall be responsible for furnishing a legal description and any necessary survey(s) of the site, including, as may be reasonably required, grades and lines of streets, alleys, pavements and adjoining structures, rights-of-way, restrictions, easements, encroachments, zoning, deed restrictions, boundaries and contours of the site; locations, dimensions and necessary data pertaining to existing buildings and other improvements; and information concerning available service and utility lines above and below grade, including inverts and depths.
- 2.3.5 The Consultant shall submit to the City an estimate of probable construction costs for the Project.
- 2.3.6 If requested by the City, during construction, the Consultant shall be required to maintain for the City a record of deviations on the basis of information compiled and furnished, in part, by others, from the work as shown in the drawings and specifications and as actually installed. Before final payment by the City, the Consultant shall revise any drawings and specifications affected by such deviation so that all such documents shall show the work actually installed. A digital drawing or approved equal of the final certified record drawings shall be submitted to the City.

2.4 SIXTY PERCENT DESIGN DOCUMENTS- NOT USED.

2.5 NINETY PERCENT DESIGN DOCUMENTS

- 2.5.1 Based on the 30% design documents and any adjustments to that design, the proposed schedule, or Project budget authorized by the City, the Consultant shall prepare and submit to the City for its review, 90% design documents consisting of drawings and other documents to fix and describe the size and character of the Project as to civil, architectural, structural, mechanical and electrical systems; landscape architectural and irrigation design; materials and such other elements as may be appropriate.
- 2.5.2 The Consultant shall review its estimate of probable construction costs, shall make any appropriate revisions thereto and furnish same to the City.
- 2.5.3 The Consultant shall assist the City in preparing and filing all documents necessary to obtain the approval of all authorities having jurisdiction over the Project.

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## 2.6 ONE HUNDRED PERCENT DOCUMENTS

- 2.6.1 Based on the 90% design documents and any adjustments to that design, the proposed schedule, or Project budget authorized by the City, the Consultant shall prepare 100% design documents consisting of drawings and specifications setting forth in detail the requirements for construction of the Project. Such Construction Documents shall be project specific and shall be accurate, coordinated and adequate for construction, and shall be in conformity and comply with all applicable law, codes, standards, and regulations. Products specified for use shall be readily available unless specifically authorized by the City.
- 2.6.2 The Consultant shall continue to assist the City in preparing and filing all documents necessary to obtain the approval of all authorities having jurisdiction over the Project.
- 2.6.3 The Consultant shall review its most recent estimate of probable construction costs, shall make any appropriate revisions thereto and furnish same to the City.
- 2.6.4 The Consultant shall be responsible for the preparation of bid packages to be made available for distribution to all prospective bidders via the City's electronic procurement system. Such packages shall include electronic copies of all relevant plans, specifications, and other documents upon which the bidding is to be based. All electronic documents shall be provided in an Americans with Disabilities Act (ADA) compliant format (except for plans, only the descriptive list will be provided in this format). The City reserves the right to elect paper copies if deemed necessary and, if elected, the Consultant shall make copies of complete bid packages available at its office nearest to the Project site during normal business hours for all prospective bidders. The Consultant shall be reimbursed by the City for the actual cost of reproduction of the documents contained within the bid package as a reimbursable item pursuant to the terms of Section 6.2 of this Agreement.
- 2.6.5 In the event that there are amendments to the bid packages, amendments to any of the documents contained with the bid packages, or any clarifications issued during the bidding process, the Consultant shall prepare for the City's approval written addenda as appropriate to interpret, clarify or expand the bidding documents. The Consultant shall make such documents available to all prospective bidders in a manner acceptable to the City, and shall be reimbursed for the actual costs of reproduction at the same rate specified in Section 2.6.3. There shall be no additional charges for amendments or clarifications other than as provided in Section 2.6.3.
- 2.6.6 The Consultant shall coordinate with the City during the bidding process and be available to address bidders' questions and comments at any time during the bidding process. The Consultant shall attend the pre-bid meeting, which will be held at a location as specified by the City.
- 2.6.7 The Consultant shall be available as necessary to assist the City in the evaluation of all bids received for determination of compliance with the bidding requirements. The Consultant shall not be responsible for performing any investigations or reference checks regarding bidders, nor shall it be responsible for determining whether a bid is responsive or a bidder is responsible; however, the Consultant shall assist the City as necessary in making such determination.

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2.6.8 The Consultant will investigate, study, and analyze any proposed substitutions of materials or equipment and shall advise the City with respect to same.

## 2.7 ADMINISTRATION OF CONSTRUCTION – NOT USED

## 2.8 ADDITIONAL SERVICES

The following services of the Consultant are not included in Sections 2.3 through 2.6, nor in EXHIBIT “1,” Scope of Services. Nevertheless, the Consultant shall provide such services as related to the Project if authorized in writing by the City prior to the performance or furnishing of same, and, unless otherwise specified in this Agreement, said services shall be paid for by the City as provided hereinafter.

2.8.1 Providing services to perform an extraordinary examination or investigation of existing conditions or to make measured drawings, or to verify the accuracy or other information provided by the City.

2.8.2 Making revisions in drawings, specifications or other documents when such revisions are inconsistent with written direction by the City previously given, are required by the enactment or revision of codes, laws or regulations subsequent to the preparation of such documents and not reasonably anticipated, or are due to other causes not within the control or responsibility of the Consultant, either in whole or in part.

2.8.3 Preparing drawings, specifications and supporting data in connection with Change Orders, provided that such Change Orders are issued by the City due to causes not within the control or responsibility of the Consultant, either in whole or in part.

2.8.4 Providing services concerning repair or replacement of work damaged by fire or other cause during construction provided that such services are required by causes not the responsibility of the Consultant, either in whole or in part.

2.8.5 Providing services made necessary solely by the default of the Contractor or defects or deficiencies in the work of the Contractor.

## 2.9 SERVICE SCHEDULE

2.9.1 The Consultant shall perform its services in accordance with agreed upon schedule. The Consultant shall submit for the City’s approval a schedule for the performance for the Consultant’s services that shall include allowance for time required for the City’s review of submissions and for approvals of authorities have jurisdiction over the Project. The City shall review and approve or reject any schedules submitted by the Consultant within five (5) working days of said submittal. If, in the event that construction of the Project is suspended for more than thirty (30) days, the Consultant shall also suspend Construction Administration Services upon request of City. Any time spent on the Project at the request of the City or on the City’s behalf during this suspension shall be additional services and shall be paid based on the Standard Hourly Rates attached to the Continuing Services Agreement as EXHIBIT “B” Hourly Rates. The reasonable term of construction upon which the fees for Construction Administration Services in this Agreement are based, shall be extended to include the period of construction suspension. This schedule, when approved by the City, shall not, except for cause, be exceeded by the Consultant. In the event the City rejects any schedules submitted by the Consultant, the Consultant shall

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submit a revised schedule within forty-eight (48) hours of said rejection. Submission of a schedule acceptable to the City and to which the City makes no objection shall be a condition precedent for any payment to the Consultant.

2.9.2 Upon receipt of the Notification of Commencement and the fully executed Purchase Order, the Consultant shall commence services to the City on the Commencement Date, and shall continuously perform services to the City, without interruption, in accordance with the time frames set forth in the "Project Schedule," a copy of which is attached and incorporated into this Agreement as EXHIBIT "2." The number of calendar days from the Commencement Date, through the date set forth in the Project Schedule for completion of the Project or the date of actual completion of the Project, which ever shall last occur, shall constitute the Contract Time.

2.9.3 Liquidated Damages: The parties recognize and agree that certain events may cause the City to suffer losses that are by their nature uncertain, difficult to prove, and not ascertainable at the time this Agreement is entered into. The parties agree that certain breaches will cause Consultant to pay City liquidated damages resulting from the breach. In no event shall these liquidated damages be construed or deemed to constitute penalties. Unless otherwise excused by the City in writing, in the event that the Consultant fails to meet the Contract Time for completion of a particular milestone of service(s) as determined by the Project Schedule, the Consultant shall pay to the City the sum of dollars identified below per day for each and every calendar day of unexcused delay beyond the milestone completion date(s) identified below, until completion of the milestone:

Milestone 1: Project Task 1.4 – 100% Design Documents ..... \$100/day

2.9.4 No Damages for Delay: The Consultant shall not be entitled to any claim for damages including, but not limited to, loss of profits, loss of use, home office overhead expenses, equipment rental and similar costs on account of delays in the progress of the Project from any cause or national disaster or emergency, unusual delay in deliveries, unusual delay in procuring permits, differing site conditions, unavoidable casualties or other cause beyond the Consultant's control, or by delay authorized by the City, or by other causes which the Consultant determines may justify delay. The Consultant's sole recovery and remedy for any such delay shall be a reasonable extension of time and a revision to the Project Schedule as determined by the City. However, additional costs to the Consultant or delays in the Consultant's performance caused by improperly timed activities shall not be the basis for granting a time extension. If the Consultant wishes to make a claim for an increase in time of performance, written notice of such claim shall be made to the City within three (3) working days after the occurrence of the event, or the first appearance of the condition giving rise to such claim. The City's representative shall determine whether the Consultant is entitled to a time extension for the delay. The failure of the Consultant to give such notice shall constitute a waiver of any claim under this section.

2.9.5 Notwithstanding the provisions of Subparagraph 2.8.4, in the event that the Contractor fails to substantially complete the Project on or before the Substantial Completion date specified in the Construction Contract or the Contractor is granted an extension of the time to complete performance under the Construction Contract and the Consultant's Contract Administration Services are materially extended by the City as a direct result thereof and through no fault of the Consultant, the Consultant shall be entitled to additional

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compensation at the rates shown in the Continuing Services Agreement EXHIBIT "B." The amount of compensation due by the Consultant under this Subparagraph shall be pursuant to approved written Amendment to this Agreement.

2.10 PERSONNEL

2.10.1 The Consultant shall assign only qualified personnel to perform any service concerning the Project. At the time of execution of this Agreement, the parties anticipate that the following named individuals will perform those supervisory or primary functions indicated:

<u>NAME</u>	<u>FUNCTION</u>
Celia D.A. Earle	Client Service Manager
Diego Herrera, P.E.	Project Manager, Design Manager, Civil/Mechanical Engineer
Roselyn Gardner	Project Administrator
Robert Abordo, P.E.	Electrical Engineer
Hector Serrano, P.E.	I&C Engineer
Leara Guzman, E.I.	Project Engineer
Kenneth Sesker	CAD Lead
Victor Hurlburt, P.E.	Quality Assurance/Quality Control
Adarsh Shah, P.E.	Structural Engineer
Breeze Walter	Estimator
Valentina Abbott, P.E.	Process Modeling

So long as the individuals named above remain actively employed or retained by the Consultant, they shall perform the functions indicated next to their names. Furthermore, the City reserves the right to reject any proposed substitution for any of the above-named individuals, and the City shall have the further right to require that any individual assigned to the Project by the Consultant be removed from the Project and reassigned for good cause.

**SECTION 3 CITY'S BASIC DUTIES TO CONSULTANT**

3.1 The City shall provide the Consultant with adequate information regarding the City's requirements for the Project including any desired or required design or construction schedule, or both, and any budgetary requirements including fixed limit of construction

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cost, prior to the start of the Construction Documents Phase of design, upon which the Consultant shall be entitled to rely.

- 3.2 The City shall review any documents submitted by the Consultant requiring the City's decision, and shall render any required decision pertaining thereto in a timely fashion.
- 3.3 The City shall furnish structural, mechanical, chemical and other laboratory tests, inspections and reports as required by law or the Construction Contract.
- 3.4 If the City becomes aware of any fault or defect in the Project, nonconformance with the Construction Contract, or of any errors, omissions or inconsistencies in the drawings or specifications, prompt notice thereof shall be given by the City to the Consultant.
- 3.5 The City shall perform those duties set forth in Sections 3.1 through 3.4 as expeditiously as may reasonably be necessary for the orderly progress of the Consultant's services and of the work.
- 3.6 The City's review of any documents prepared by the Consultant or its subconsultants shall be solely for the purpose of determining whether such documents are generally consistent with the City's construction program and intent. No review of such documents shall relieve the Consultant of its responsibility for the accuracy, adequacy, fitness, suitability and coordination of its work product.

#### **SECTION 4 CONSTRUCTION COSTS**

- 4.1 If the cost of construction exceeds the cost agreed upon by the City by more than 5% of the lowest bona fide bid or negotiated proposal, the City may (1) give written approval of an increase in such fixed limit, (2) authorize rebidding or renegotiating of the Project, (3) terminate the Project and this Agreement in accordance herewith, or (4) cooperate in revising the Project scope or quality, or both, as required to reduce the construction cost. In the case of (4), the Consultant, without additional charge to the City, shall consult with the City and shall revise and modify the drawings and specifications as necessary to achieve compliance with the cost agreed upon by the City. Absent negligence on the part of the Consultant in making its estimates of probable construction cost, providing such modifications and revisions shall be the limit of the Consultant's responsibility arising from the establishment of such construction costs, and having done so, the Consultant shall be entitled to compensation for all other services performed, in accordance with this Agreement.

#### **SECTION 5 BASIS OF COMPENSATION**

- 5.1 The City shall compensate the Consultant for an amount not to exceed \$236,321.39 based on services rendered pursuant to Sections 2.3 through 2.6 and **EXHIBIT "1,"** Scope of Services, of this Agreement by allocating the estimated percentage of work for each of the tasks set forth in Section 5.2. Billings for each task shall not exceed the amount allocated to each task.
- 5.2 Payment to the Consultant of the sum set forth in Section 5.1 shall be allocated based on the estimated percentage of work completed for each of the following tasks:

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Kick-off Meeting and Summary.....	\$2,716.48	1.15%
Survey and Geotechnical Investigation.....	\$68,750.84	29.09%
Preliminary Design Documents.....	\$75,943.81	32.14%
90% Design Documents.....	\$42,801.74	18.11%
100% Design Documents.....	\$24,191.18	10.24%
Permit Documents.....	\$13,804.62	5.84%
Bidding Services.....	\$8,112.72	3.43%

5.3 Additional services of the Consultant as described in Section 2.7, if any, shall be compensated as follows:

See EXHIBIT “B” Hourly Rates of the Continuing Services Agreement.

5.4 Reimbursable Expenses as defined in Section 6 shall be reimbursed to the Consultant by the City as provided in Section 6.

5.5 If the scope of the Consultant’s services is changed materially through no fault of the Consultant, compensation due to the Consultant shall be equitably adjusted, either upward or downward.

**SECTION 6 BILLING AND PAYMENTS TO CONSULTANT**

6.1 Billing by the Consultant shall be in accordance with EXHIBIT “E” of the Continuing Services Agreement. Payments to the Consultant shall also be in accordance with EXHIBIT “E” of the Continuing Services Agreement and EXHIBIT “3” of this Agreement.

6.2 REIMBURSABLE EXPENSES – NOT USED

**SECTION 7 TERM**

7.1 This Agreement shall commence on the date this instrument is fully executed by all parties and shall continue in full force and effect for **782 days**, unless otherwise terminated pursuant to Section 8.1 or 8.2, or other applicable sections of this Agreement. The City’s City Manager, in his sole discretion, may extend the term of this Project Agreement through written notification to the Consultant. Such extension shall not exceed one-hundred eighty (180) days. No further extensions of this Agreement shall be effective unless authorized by City code or City Commission action.

**SECTION 8 TERMINATION**

8.1 TERMINATION FOR CAUSE

8.1.1 This Agreement may be terminated by either party upon seven (7) days' written notice to the other should such other party fail substantially to perform in accordance with its material terms through no fault of the party initiating the termination. In the event of a

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termination for cause, the Consultant shall be entitled to receive compensation for any work completed pursuant to the Agreement to the satisfaction of the City through the date of termination, less any amounts which the City reasonably deems necessary to withhold in order to correct any defects or deficiencies in the work performed by the Consultant. In no event shall the City pay for profit or overhead on work not performed.

## 8.2 TERMINATION FOR CONVENIENCE

8.2.1 This Agreement may be terminated by the City without cause upon ten (10) days' written notice to the Consultant. In the event of such a termination without cause, the Consultant shall be compensated for all services completed pursuant to this Agreement to the satisfaction of the City up to and through the date of termination, together with Reimbursable Expenses incurred. In such event, the Consultant shall promptly submit to the City its invoice for final payment and reimbursement which invoice shall comply with the provisions of Section 2.5 of EXHIBIT "E" of the Continuing Services Agreement.

8.2.2 Under no circumstances shall the City make payment of profit or overhead for work that has not been performed. Additionally, the City shall not make payment for the following items:

8.2.2.1 Anticipated profits or fees to be earned on completed portions of the work;

8.2.2.2 Consequential damages;

8.2.2.3 Costs incurred in respect to materials, equipment or services purchased or work done in excess of reasonable quantitative requirements of this Agreement;

8.2.2.4 Expenses of Consultant due to the failure of Consultant or its subconsultants to discontinue the work with reasonable promptness after notice of termination has been given to the Consultant; and

8.2.2.5 Losses upon other contracts or from sales or exchanges of capital assets or Internal Revenue Code Section 1231 assets.

8.2.2.6 Damage or loss caused by delay.

8.3 Assignment Upon Termination. Upon termination of this Agreement, the work product of the Consultant shall become the property of the City and the Consultant shall within ten (10) working days of receipt of written direction from the City, transfer to either the City or its authorized designee, all work product in its possession, including but not limited to, designs, specifications, drawings, studies, reports and all other documents and data in the possession of the Consultant pertaining to this Agreement. Upon the City's request, the Consultant shall additionally assign its rights, title and interest under any subcontractor's agreements to the City. All work product provided under this Section shall be used solely for its intended purpose.

## **SECTION 9 SEVERABILITY**

9.1 If any term or provision of this Agreement or its application thereof to any person or circumstance shall, to any extent, be held invalid or unenforceable, the remainder of this

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Agreement or the application of such terms or provisions to persons or circumstances other than those to which it is held invalid or unenforceable, shall not be affected, and every other term and provision of this Agreement shall be deemed valid and enforceable to the extent permitted by law.

**SECTION 10 FOREIGN GIFTS AND CONTRACTS**

10.1 Pursuant to Fla. Stat. §286.101(3), where the amount of the grant or contract is 100,000.00 or more, Consultant shall disclose any current or prior interest of, any contract with, or any grant or gift received from a country of foreign concern with a value of \$50,000 or more that was received or in force during the previous five (5) years. Definitions, disclosure requirements and exceptions are found in Fla. Stat. §268.101. Consultant represents and warrants it has complied with Fla. Stat. §286.101, it has properly disclosed such interests, contracts, grants or gifts to City before execution of this Agreement, and it will remain in compliance with Fla. Stat. §286.101 for the duration of this Agreement.

**SECTION 11 PROHIBITED TELECOMMUNICATIONS EQUIPMENT**

11.1 Consultant represents and certifies that it and all its subcontractors do not use any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, as such terms are used in 48 CFR §§ 52.204-24 through 52.204-26. Consultant represents and certifies that it and all its subcontractors shall not provide or use such covered telecommunications equipment, system, or services during the term of this Agreement.

**SECTION 12 ANTITRUST VIOLATIONS**

12.1 The Consultant has a continuous duty to disclose to the City if it or any of its affiliates (as defined by Section 287.137(1)(a), Florida Statutes) are placed on the Antitrust Violator Vendor List. A person or an affiliate who has been placed on the Antitrust Violator Vendor List following a conviction or being held civilly liable for an antitrust violation may not submit a bid, proposal, or reply for any new contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply for a new contract with a public entity for the construction or repair of a public building or public work; may not submit a bid, proposal, or reply on new leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a new contract with a public entity; and may not transact new business with a public entity. By entering into this Agreement, Consultant certifies that neither it nor its affiliate(s) are on the antitrust violator vendor list at the time of entering this Agreement. False certification under this paragraph or being subsequently added to that list will result in termination of this Agreement, at the option of the City consistent with Section 287.137, Fla. Stat. as amended.

[REMAINDER OF PAGE LEFT INTENTIONALLY BLANK]

**IN WITNESS WHEREOF**, the parties hereto have made and executed this Agreement on the respective dates under each signature: the City, signing by and through its Mayor, attested to by its City Clerk, duly authorized to execute same and by Brown and Caldwell Corporation, signing by and through its Client Service Manager, duly authorized to execute same.

**CITY**

**CITY OF SUNRISE, FLORIDA**

By: \_\_\_\_\_  
Mayor Michael J. Ryan

\_\_\_\_\_ day of \_\_\_\_\_, 2023.

AUTHENTICATION:

\_\_\_\_\_  
City Clerk

(SEAL)

Approved as to form for the City:

By: \_\_\_\_\_  
Kimberly A. Kisslan  
City Attorney

Authorized City Representative's Initials: \_\_\_\_\_

Authorized Consultant Representative's Initials: \_\_\_\_\_

**CONSULTANT**

**Brown and Caldwell**

By: \_\_\_\_\_  
Celia D. A. Earle, Ph.D., BCEEM  
TITLE: Vice President/Client Service Manager

\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

WITNESSES:

\_\_\_\_\_  
\_\_\_\_\_

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**EXHIBIT "1"**

**TO**

**PROJECT AGREEMENT PA-24-001-BC**

**LIFT STATION 127 BASIN IMPROVEMENTS**

**SCOPE OF SERVICES**

Lift Station No. 127, located at 4125 N. University Drive, Sunrise, FL 33322, is in need of improvements. The existing driveway to the station is inadequate for maintenance and poses safety issues for the maintenance staff. The City engineering staff prepared an accessway improvement plan that was pre-approved by FDOT. The existing station is old and nearing the end of useful life, has a wet/dry pit configuration which also poses maintenance challenges and is in need of conversion to a submersible station for ease of operation and maintenance. The lift station discharge force main is originally of PVC material, and is located in the back lots of the residential property, this force main is in need of replacement and will be relocated in the easement along the front of the residential properties.

The scope of this project includes the following major modifications and improvements to Lift Station No. 127:

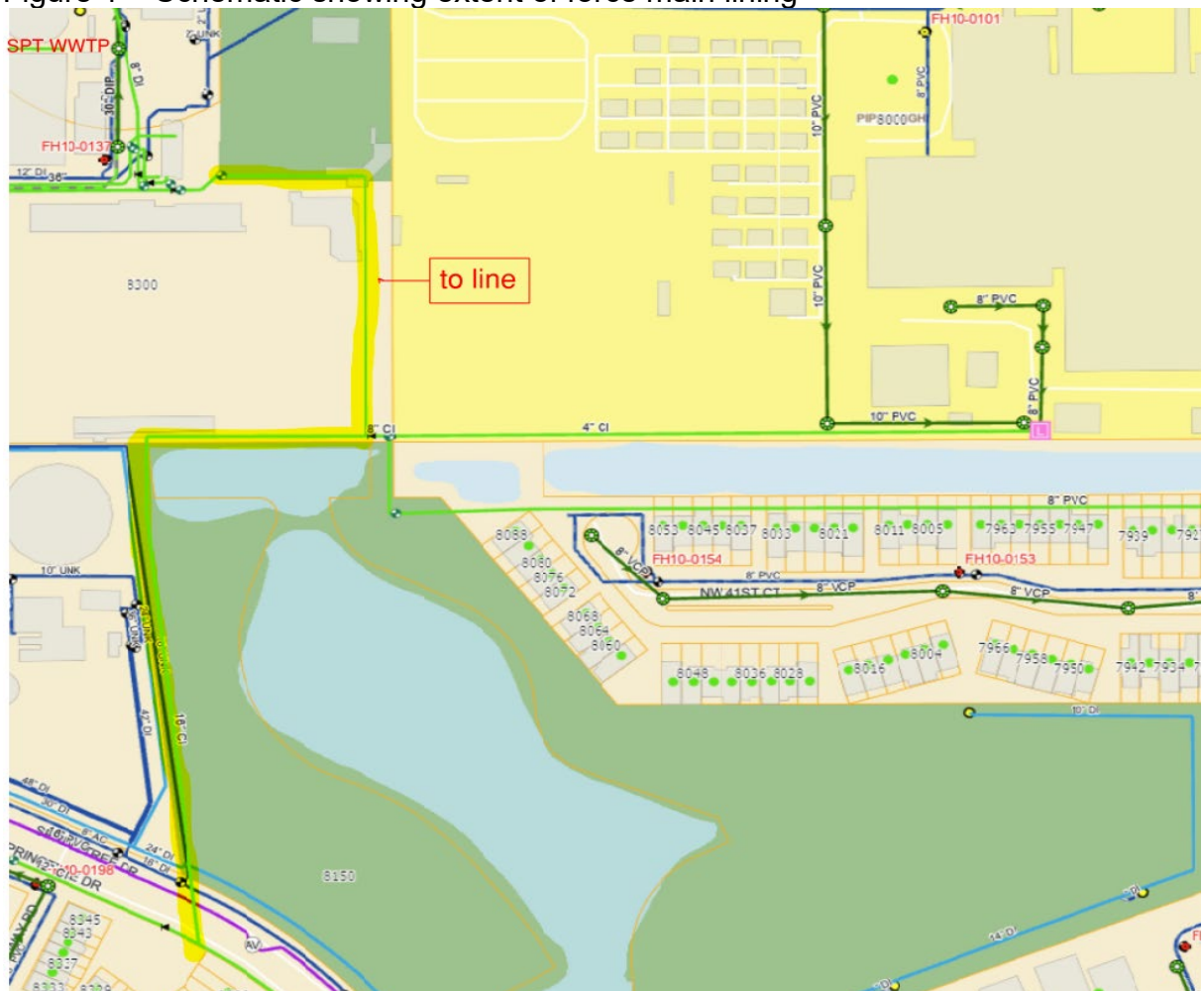
- Demolition/removal of all existing equipment from the wet well and valve vault including mounted pumps, motors, piping, valves, electrical systems, etc.
- Removal of the existing valve vault, as required to install a new valve vault.
- Modification of the existing wet well to accommodate new submersible pumping equipment, including removal of existing grout fillets and piping, repair of existing concrete, installation of new access hatches, and application of new protective coating for wet well and valve vault.
- New reinforced concrete valve vault (approximately 6' x 6') with associated hatches, drain piping, etc., in accordance with City requirements.
- New discharge piping (epoxy-coated DIP) and valves for each new pumping unit along with required piping and fittings to connect to an existing force main at the site.
- New pressure gauges and pressure transmitters with connection to SCADA.
- New emergency pump bypass connection integrated inside the valve box in between the check valves (with valve box and lid).
- New 1-inch water service line, hose bibb and water meter box.
- Restoration of pavement and concrete sidewalks (5' wide x 6" thick) alongside University Drive.
- Consideration to raise the well and valve vault top to the 100-year flood elevation. Raise the base of the panel to be 3 feet above 100-year flood elevation.

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- Considerations for improvements to the adjacent private property that may be affected due to the grade elevation modification.
- New fencing within the area of the lift station.
- New Driveway configuration to provide improved access to University Drive and allow City staff better parking.
- New force main from Lift Station No. 127 site to the West side of the townhouses at Red Bridge Community and connect to the existing 16-inch diameter force main located in southeast corner of the school's stadium via method determined to be feasible based on the investigations performed by the Engineer.
- Demolition/abandonment drawings of the existing force main system based on as-builts (provided by the City).
- Preparation of drawings and specifications to line the existing force main from the South side of Springtree Drive to the southeast corner of the Springtree WWTP per Figure 1.

Figure 1 – Schematic showing extent of force main lining



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All components shall be designed in accordance with the CITY Utilities Department's lift station standard specifications and details (to be provided by the CITY).

The CONSULTANT shall rely on flow data provided by the City and model information for the design of this lift station. Projections of future basin flows due to changes in population or usage over time, if any changes are expected, shall be provided to BC by the City. This project will address the demolition or abandonment of the existing PVC force main.

This Project Agreement (PA) will provide the engineering services associated with the preparation of design.

## **TASK 1 DESIGN SERVICES**

Unless otherwise agreed in writing, the CONSULTANT shall perform the following design services in connection with the Project:

**1.1 Basis of Design (NOT USED)**

**1.2 Preliminary Consultation and Analysis. (NOT USED)**

**1.3 Preliminary Design.** The CONSULTANT shall schedule and attend a Project Kick-off Meeting for the purpose of first consulting in detail with the CITY to validate the requirements of the Project, including but not limited to, any design, construction, scheduling, budgetary or operational requirements. At this time, the CONSULTANT shall collect all applicable background information from the CITY. This information shall include, but not necessarily be limited to, record drawings of the existing facilities, utility maps, GIS maps and data, existing property and easement maps, data from SCADA (pump run times, discharge pressures, and flows), portions of the CITY's wastewater hydraulic model that are related to the stations being rehabilitated and associated database and information, CITY design standards, and existing equipment data (O&M manuals, existing pump information, submittals, etc.). The preliminary design is defined as a submittal for 30% design set of drawings and specifications.

After reviewing the information provided, the CONSULTANT shall prepare initial storage volume calculations and make an initial determination for the lift station whether rehabilitation will be done within the existing wet well, or whether full replacement is recommended. CONSULTANT will prepare one preliminary site plan for the site and hold one preliminary site plan review meeting with the CITY to reach a consensus on the arrangement of the site. Development of more than one site plan alternative for the site is not contemplated under this scope of services. The easement and topographic information will be collected in advance prior to the meeting. The CONSULTANT will provide the layout for the force main, the preliminary site plan for the existing lift station and the layout of the existing force main to be lined. If it is determined that a temporary and/or permanent easement is

required for construction, the CITY reserves the right to terminate and/or delay the remaining design activities related to the project.

Based on the results of the site plan review meeting, CONSULTANT will prepare and submit to the CITY a preliminary design for the Project. The Preliminary Design shall address all of the requirements of the Project, and shall include drawings and other documents to fix and describe the size and character of the Project as to civil, structural, mechanical and electrical systems. Landscape architecture and irrigation design, materials, and such other elements are not part of this agreement.

Additionally, the CONSULTANT will present preliminary layout of the proposed force main to be installed on N.W 41<sup>st</sup> Court, using the survey acquired for this project. Connection points to the existing system will be discussed during the Preliminary Design Phase review meeting.

The Preliminary Design submittal package shall include, but not be limited to, the following:

- 1.3.1** Preliminary drawings that illustrate the basic components of the Project including the size, scale, location, dimensions, layout, and character of each major design feature;
- 1.3.2** Geotechnical borings report is to be included as part of this task for this Project;
- 1.3.3** A site survey accurately depicting all relevant topography features, existing structures, and utilities, including an easement description. This survey shall confirm benchmarks and spot elevations on selected structures;
- 1.3.4** A brief summary of permitting and code requirements for the Project;
- 1.3.5** Hydraulic calculations for the proposed lift station pumping system. Calculations shall include head and flow design criteria based on results obtained from use of the CITY's wastewater system hydraulic model, readily available pump run time, pressure, and flow data from the CITY's SCADA system, and flow calculations and drawdown tests. The CONSULTANT will rely on data provided by the CITY to complete its design, including a calibrated wastewater system hydraulic model. Further, calculations shall include control elevations, NPSH, cycle time, and other relevant calculations needed to assess the adequacy of the existing wet well (primarily with respect to depth) for the new pumping equipment. If wet well replacement is recommended, the depth and diameter of the new wet well will be provided.
- 1.3.6** A written description of the materials and equipment to be incorporated into the Project and the location of same. The CONSULTANT shall first consult



with the CITY concerning equipment and material components and shall give preference to materials and equipment recommended by the CITY. The CONSULTANT shall submit to the CITY a list of any and all proposed sole source or CITY furnished equipment. The CONSULTANT shall not use or designate sole source or CITY furnished equipment and/or materials in the project without the expressed written permission of the CITY for each item, material or piece of equipment;

- 1.3.7** An estimate of the cost of constructing the Project in accordance with the Preliminary Design;
- 1.3.8** Any other documents required to illustrate, describe or depict the Preliminary Design and the conformity of same with the requirements of the Project.
- 1.3.9** The CONSULTANT will submit a preliminary design to the CITY in PDF format which will consist of the documents described herein. A total of three (3) prints shall be made, with the preliminary drawings printed in 11x17-inch size format paper. The CITY will review the preliminary design package and provide comments.
- 1.3.10** After submittal of the Preliminary Design to the CITY and comments are received, the CONSULTANT shall meet with representatives of the CITY and shall review the comments, suggestions, questions from the CITY concerning the Preliminary Design. Comments will be addressed by the CONSULTANT in the Final Design package. Meeting minutes shall be provided by the CONSULTANT and responses to the CITY comments shall be provided.
- 1.4** Final Design. Upon authorization by the CITY, and after reviewing with the CITY, the Preliminary Design and after incorporating any changes or alterations authorized or directed by the CITY with respect to said Preliminary Design or with respect to the requirements of the Project, the CONSULTANT shall prepare and submit to the CITY 90% (the "For Permitting" set) and 100% Design Documents for Construction in accordance with the project schedule and deliverables. The Design for Construction shall include drawings and specifications (the "Construction Documents") that describe with specificity all elements, details, components, materials, and other information necessary for construction of a complete and usable Project. The Construction Documents shall be accurate, coordinated and adequate for construction and shall be in conformity and comply with all applicable law, codes and regulations. Products, equipment and material specified for use shall be readily available unless written authorization to the contrary is given by the CITY. The Design for Construction shall specifically include, but shall not be limited to, the following:

Authorized City Representative's Initials: \_\_\_\_\_

Authorized Consultant Representative's Initials: \_\_\_\_\_

- 1.4.1 General Design.** General design covers index of drawings, location and vicinity maps, design data, flow diagrams, hydraulic profile, and general conditions. General drawings and specifications shall be prepared;
- 1.4.2 Civil Design.** Civil Design covers the layout of the proposed facilities and associated outside piping, paving, grading and drainage. Contract drawings and specifications for the civil work shall be prepared;
- 1.4.3 Architectural Design.** (NOT USED)
- 1.4.4 Structural Design.** Structural design of the wet well modifications, valve vault, and related structural items is covered by this task. Contract drawings and specifications for the structural work shall be prepared;
- 1.4.5 Mechanical Design.** Mechanical design consists of the selection, design, and layout of new pumping system equipment, piping and valving. Mechanical design also covers external protective coatings for buried and submerged metallic pipelines. Contract drawings and specifications for the mechanical work shall be prepared;
- 1.4.6 Electrical Design.** Electrical design consists of the analysis of power utility service, determination of power requirements, preparation of lightning and circuit diagrams, and design of electric motors and switchgear. Contract drawings and specifications for the electrical work shall be prepared;
- 1.4.7 Instrumentation and Control Design.** Instrumentation and control design consist of development of specific control systems for the new pumping system specified for the project and development of final process and instrumentation diagrams (P&ID's shall show layouts of all project systems and the relationships of systems and subsystems to one another.) The diagrams serve as process summaries, design control, construction and operation aids. Control panels are designed for the instrument and display components selected and existing components modified or replaced. Contract drawings and specifications for the instrumentation and control work shall be prepared.
- 1.4.8** The 90% design documents shall be submitted as described above. After the CITY finalizes review and produces comments on the provided documents, the CONSULTANT shall meet with representatives of the CITY, and shall review comments concerning the 90% design drawings and specifications. The CONSULTANT shall prepare meeting minutes of the review meeting and respond to the CITY comments.
- 1.4.9** The 100% design documents shall be submitted as described above to all pertinent permitting agencies. After permitting agencies finalize review and produce comments on the provided documents, the CONSULTANT shall address comments and provide revised package.

**1.5 Estimate of the Cost of Construction.** Contemporaneously with the submission of the preliminary documents, the CONSULTANT shall submit to the CITY in writing its preliminary Estimate of the Cost of Construction. The CONSULTANT shall submit the final Estimate of the Cost of Construction with the 100% completed Design for construction. Once submitted, said final estimate shall not be increased or decreased by the CONSULTANT unless the Design for Construction is changed upon authorization by the CITY. In such event, said final estimate shall be reasonably adjusted to reflect any increase or decrease in cost resulting from the change in Design for Construction. Prior to authorizing the CONSULTANT to proceed with preparation of the Design for Construction, the CITY may establish and communicate to the CONSULTANT a maximum sum for the Cost of Construction of the Project (the "Maximum Cost Limit"). If the CITY has not advertised for bids within ninety (90) days after the CONSULTANT submits the Design for Construction to the CITY, the CONSULTANT shall adjust the Estimate of the Cost of Construction utilizing changes in the Engineering News Record Construction Cost Index between the date of submission of the Design for Construction to the CITY and the date on which bids are sought. In the event the final estimate of the Cost of Construction as provided in this Paragraph exceeds the Maximum Cost Limit, or in the event the lowest bona fide bid from a qualified contractor exceeds the Maximum Cost Limit, the CITY may require the CONSULTANT, without additional cost to the CITY, to consult with the CITY and to revise and modify the Design for Construction and the Contract Documents as required to achieve compliance with the Maximum Cost Limit if the CONSULTANT has exhibited clear and convincing negligence in making its final Estimate of the Cost of Construction or in designing the Project without regard to the Maximum Cost Limit. Providing such modifications and revisions shall be the limit of the CONSULTANT's responsibility arising from the establishment of the Maximum Cost Limit, and having done so, the CONSULTANT shall be entitled to compensation for all other services performed, in accordance with the Project Agreement;

**1.6 Permit Documents:** The CONSULTANT shall prepare permit application documents required for the approval of regulatory authorities having jurisdiction over the Project, and the CONSULTANT shall work closely with any authorities having jurisdiction to obtain the issuance of all required permits. The CITY shall pay all initial permitting, application and processing fees. All subsequent follow up Community Development reviews and revision fees (and associated Utilities Department personnel costs associated with additional reviews) shall be deducted from the cost of this proposal, provided the required follow up reviews are a direct result of the CONSULTANT not satisfactorily addressing, responding, or resolving documented Community Development comment(s) from the initial review. Any new review comment(s) that have not previously been brought to the

CONSULTANT'S attention in preceding Community Development reviews will not be subject to such deduction of costs as noted above.

- 1.6.1.1** Permitting support at the 90% level shall be comprised of the following. Note that at the 90% stage the drawings and specifications shall be nearly complete with the exception of final comments from the CITY and regulatory agencies as defined herein. The 90% drawings will be modified following the 90% review meeting with the CITY to account for final comments by the CITY and will be cross-checked and internally reviewed and will be stamped as "*100% for Permitting Set.*" This set will be used for the final designer-led permitting efforts as defined herein.
- 1.6.1.2** The CONSULTANT shall coordinate with the City of Sunrise CDD Planning and Zoning Department and shall submit the "*100% for Permitting Set*" of drawings (and specifications if required). The CONSULTANT shall correspond with and respond to requests for information and shall amend the drawings (and specifications, if required) accordingly.
- 1.6.1.3** The CONSULTANT shall coordinate with the City of Sunrise CDD Engineering Department and shall submit the "*100% for Permitting Set*" of drawings (and specifications if required). The CONSULTANT shall correspond with and respond to requests for information and shall amend the drawings (and specifications, if required) accordingly.
- 1.6.1.4** The CONSULTANT shall coordinate with the City of Sunrise Building Department and shall submit the "*100% for Permitting Set*" of drawings (and specifications if required). The CONSULTANT shall correspond with and respond to requests for information and shall amend the drawings (and specifications if required) accordingly.
- 1.6.1.5** The CONSULTANT shall coordinate with the City of Sunrise Public Works and shall submit the "*100% for Permitting Set*" of drawings (and specifications if required). The CONSULTANT shall correspond with and respond to requests for information and shall amend the drawings (and specifications if required) accordingly.
- 1.6.1.6** The CONSULTANT shall coordinate with the Broward County Public Works and with Broward County Environmental Permitting Division and shall submit the "*100% for Permitting Set*" of drawings (and specifications if required). The CONSULTANT shall correspond with and respond to requests for information and shall amend the drawings (and specifications if required) accordingly.

**TASK 2 BIDDING SERVICES**

Unless otherwise agreed in writing, the CONSULTANT shall perform the following bidding services in connection with the Project:

Authorized City Representative's Initials: \_\_\_\_\_

Authorized Consultant Representative's Initials: \_\_\_\_\_

- 2.1 Solicitation of Bids.** The CONSULTANT shall provide a draft bid worksheet, final opinion of probable construction cost prior to the bid. The CONSULTANT shall assist the CITY in obtaining bids for each prime contract for construction and for the purchase of materials, equipment, or services. Such assistance shall include the attendance of pre-bid conferences;
- 2.2 Addenda.** The CONSULTANT shall prepare for CITY approval up to three (3) written addenda for the Lift Station 127 Improvements as appropriate to interpret, clarify or expand the Bidding Documents. The CONSULTANT shall make such documents available to all prospective bidders in a manner acceptable to the CITY and shall be reimbursed for the actual costs of reproduction at the same reproduction rate as the original bid package or any special mailing. There shall be no additional charges for amendments or clarifications. The CONSULTANT shall coordinate with the CITY during the bidding process and be available to assist the CITY in addressing bidders' questions and comments at any time during the bidding process.
- 2.3 Evaluation of Contractors and Suppliers.** The CONSULTANT shall investigate, analyze, and advise the CITY as to the acceptability and qualifications of prospective contractors and prospective subcontractors, suppliers, and others proposed by the bidder and shall assist in the evaluation of all bids received for determination of compliance with the bidding requirements and determination of the lowest responsive and responsible bidder;
- 2.4 Substitution of Materials and Equipment.** The CONSULTANT will investigate, study and analyze any proposed substitutions of materials or equipment and shall advise the CITY with respect to same;
- 2.5 Bid Opening.** The CONSULTANT shall attend the pre-bid meeting for the Lift Station 127 Basin Improvements, which will be held at a location as specified by the CITY. The CITY shall prepare appropriate bid tabulation sheets for the Lift Station 127 Basin Improvements. The CONSULTANT shall assist the CITY in evaluating bids or proposals and in assembling and awarding contracts for construction or the purchase of materials, equipment or services.
- 2.6 Construction Cost.** If the bid cost of construction exceeds the estimated cost agreed upon by the CITY by more than 10% of the lowest bona fide bid or negotiated proposal, the CITY may (1) give written approval of an increase in such fixed limit, (2) authorize rebidding or renegotiating of the Project, (3) terminate the Project and this Agreement in accordance herewith, or (4) cooperate in revising the Project scope or quality, or both, as required to reduce the construction cost. In the case of (4), if the CONSULTANT has exhibited clear and convincing negligence in making its final Estimate of the Cost of Construction or in designing the Project without

regard to the Maximum Cost Limit the CONSULTANT, without additional charge to the CITY, shall consult with the CITY and shall revise and modify the drawings and specifications as necessary to achieve compliance with the cost agreed upon by the CITY. Absent negligence on the part of the CONSULTANT in making its estimates of probable construction cost, providing such modifications and revisions shall be the limit of the CONSULTANT's responsibility arising from the establishment of such construction costs, and have done so, the CONSULTANT shall be entitled to compensation for all other services performed, in accordance with this Agreement.

- 2.7 Conformed Construction Drawings and Specifications.** The CONSULTANT shall incorporate into the 100% documents, which were used for bidding, modifications resulting from the bid-phase period addenda for the Lift Station 127 Basin Improvements Project. Following preparation of the Conformed Construction Drawings and Specifications, the CONSULTANT shall make such documents available to the CITY and the contractor awarded the project.

**Assumptions:**

1. Exterior landscaping and lighting design is excluded.
2. CONSULTANT assumes that the area, where future force main will be installed within the Redbridge Townhouses, contains a right-of-way or easements.
3. CITY force main model will be used to perform the hydraulic analysis and models.

**EXHIBIT "2"**

**TO**

**PROJECT AGREEMENT PA-24-001-BC**

**LIFT STATION 127 BASIN IMPROVEMENTS**

**PROJECT SCHEDULE**

<b>Task/Description</b>	<b>Task/Completion In Weeks Following Authorization</b>
Task 1.3 Preliminary Design	20
Task 1.4 Final Design	40
Task 1.5 Estimate of Cost of Construction	40
Task 1.6 Permit Documents	52
Task 2 Bidding Services	76
Task 2.7 – Conformed Drawings	86

Authorized City Representative's Initials: \_\_\_\_\_

Authorized Consultant Representative's Initials: \_\_\_\_\_