

FIRST AMENDMENT TO THE AGREEMENT

In accordance with the Waste Water Treatment Facility for Southwest Service Area Design Project Agreement entered into on March 21, 2023, and all of its amendments (if any), collectively (the "Agreement") this First Amendment to the Agreement (this "Amendment") is made and entered into by and between Ardurra Group, Inc., whose principal address is 4921 Memorial Hwy, Ste 300, Tampa, FL 33634, with a mailing address of 100 Center Creek Road, Suite 108, St. Augustine, FL 32084, possessing FEIN 59-1782900, (hereinafter referred to as "FIRM") and Marion County, a political subdivision of the State of Florida, 601 SE 25th Avenue, Ocala, FL, 34471, (hereinafter referred to as "COUNTY").

WITNESSETH

WHEREAS the Agreement contemplates a progression of tasks for completion of the Project (defined below) and this Amendment serves to memorialize the parties' agreement regarding Task 2 – Project Management and Final Design Phase.

IN consideration of the mutual covenants and conditions contained herein, COUNTY and Contractor (singularly referred to as "Party", collectively "Parties") hereto agree as follows:

1. This Amendment shall be deemed to amend and become part of the Agreement in accordance with the project 22Q-132, (the "Project"). All provisions of the Agreement not specifically amended herein shall remain in full force and effect.
2. This Amendment adds Task 2 – Project Management and Final Design Phase, to the Agreement, effective upon Board approval. All Work shall be completed within approximately twelve (12) months from receipt of Purchase Order (the "Term").
3. FIRM's services and performance will be in accordance with Exhibit A, Scope of Services, hereto (the "Work").
4. The total cost for the Work under Task 2 will not exceed One Million Nine Hundred Ninety Eight Thousand Eight Hundred Thirty-Six Dollars, (\$1,998,836), (the "Agreement Price"), and COUNTY shall make payment under COUNTY's established procedure and according to the Exhibit B, Cost Proposal, hereto.
5. Notices and all other communications to be in writing and sent by certified mail return receipt requested or by hand delivery.

Alternatively, the parties may elect to receive said notices by e-mail. COUNTY hereby elects to receive all notices solely by email and designates its email address as procurement@marionfl.org. If FIRM agrees to accept all notices solely by e-mail and acknowledges and accepts the inherent risks that come with accepting notices solely by e-mail, FIRM may designate up to two (2) e-mail addresses: drasmussen@ardurra.com and kvaith@ardurra.com. Designation signifies FIRM's election to accept notices solely by e-mail.



**Scope of Services
for Professional Engineering Services for the
Oak Run Wastewater Treatment Facility Expansion and Effluent
Management Project**

June 11, 2024

(Revised Aug. 2, 2024)

Purpose:

The purpose of this Exhibit is to authorize and direct Ardurra Group, Inc. (CONSULTANT) to provide Part I Project Management, and Final Design Phase services for the Oak Run Wastewater Treatment Facility (OR WWTF) Expansion Project (PROJECT) for the Marion County Utility Department (OWNER or MCUD). Construction Phase services with the associated fee will be provided at the 90% design stage for approval by MCUD.

CONSULTANT was selected by the OWNER based upon the proposals submitted in response to Request for Qualification (RFQ) #22Q-132. This scope of services is consistent with the intent of the RFQ and the CONSULTANT's proposal.

The OR WWTF was expanded in 2007 to its current permitted average annual daily flow (AADF) capacity of 1.6 million gallons per day (MGD). Treated effluent is discharged to Public Access Reuse (PAR) and onsite rapid infiltration basins (RIBs) for disposal. The current permitted capacity for the RIBs is 1.6 MGD on 12 acres adjacent to the OR WWTF. The current permit limits (effective April 24, 2023 - April 23, 2033) for treated effluent discharged to RIBs are ≤ 20 milligrams per liter (mg/L) carbonaceous biochemical oxygen demand (CBOD), ≤ 20 mg/L total suspended solids (TSS), and ≤ 6 mg/L total nitrogen (TN) on an annual average basis. Treated effluent discharged to PAR is limited to ≤ 20 mg/L CBOD and ≤ 10 mg/L TN (annual averages) with maximum TSS of 5 mg/L.

This project will expand the existing WWTF to 3.5 MGD AADF. The expansion will consist of a new 4-stage Bardenpho treatment train similar to the existing facility. To meet the requirement for wet weather effluent storage capacity MCUD has acquired 10 additional acres adjacent to the OR WWTF site.

In this portion of the work, detailed design, permitting and bidding services will be provided to:

1. expand the existing facility to 3.5 MGD AADF to produce Advanced Water Treatment (AWT) for nutrient reduction and public access quality reclaimed water meeting AWT limits of 5 mg/L TSS, 5 mg/L BOD, and 3 mg/L Total Nitrogen.
2. further evaluation of design conceptual layout of storage and treatment facilities to meet a 3.5 MGD discharge capacity as detailed in Part 9 of Southwest Service Area Design Project Conceptual Design Document dated February 2024 will also be provided.

Scope of Services:

This scope of services covers the expansion of the OR WWTF from 1.6 to 3.5 MGD AADF. The scope of services is assembled in two parts with the first part (PART I) addressing the physical wastewater treatment works and essentially “inside the fence” facilities for O&M improvements as identified and as listed below. Components to be included in PART II, OR WWTF Expansion are also listed further below.

- O&M Improvements:
 - Odor Mitigation
 - Installation of a thickener to improve storage duration and decanting operation.
 - Mitigate short circuiting in the first anoxic zone of each bioreactor by adding baffle walls.
 - Improve process air distribution to the existing bioreactors. New blowers will be procured and installed that will accommodate the expansion.
 - Existing Treatment Process:
 - Secondary clarifier weir/laundry algae growth issues
 - Filters:
 - Air entrapment in the influent line (affects flow distribution)
 - Chlorine Contact Chambers (CCC):
 - Leaking slide gates,
 - No automatic dosing control in CCC No. 2 due to missing ultrasonic level meter.
 - Disabled alarm for chlorine residual and turbidity.
 - Inoperable reuse ground storage tank fill valve
 - Hydropneumatic Tank:
 - Electrically operated valve not functioning.
 - Aerobic Digester:
 - Diffuser depth
 - Distributing contents between inner and outer compartments
 - In-Plant Lift Station:
 - Programmable logic controller (PLC) loses power during outages.
- Expansion:
 - Headworks

- Install one (1) new rotary drum screen. CONSULTANT will evaluate using center-flo or flow through screens, if possible.
- Replace/Upgrade existing (1) grit system.
- Construct one (1) new Biological Process Splitter Box.
- Biological Nutrient Removal Process:
 - Construct one (1) new biological process tank and associated equipment.
 - Install nine (9) new internal recycle pumps.
 - Install six (6) new return activated sludge (RAS) pumps.
 - Install six (6) new waste activated sludge (WAS) pumps.
 - Install five (5) new aeration blowers.
- New Carbon Storage and Feed System.
- Install two (2) new tertiary filters.
- Construct one (1) new Chlorine Contact Basin with two (2) new chambers.
- Install one (1) new effluent transfer pump.
- Install four (4) new effluent pumps.
- Sodium Hypochlorite Storage Area:
 - Install one (1) new 2000-gallon storage tank.
 - Construct extended secondary containment area.
 - Install one (1) new canopy.
 - Install one (1) new sodium hypochlorite pump skid.
- Electrical Equipment
- Instrumentation and Controls
- Plant Yard Piping, Valves and Appurtenances

PART I: OR WWTF O&M Improvements

CONSULTANT will provide a bid package that will address the O&M improvements at the facility. The bid package will be submitted to MCUD for review and comment. Comments will be addressed, and a final bid package will be issued to MCUD.

Task 1: Bid Documents

1. CONSULTANT will review and incorporate OWNER's comments on the 100% design deliverable.
2. CONSULTANT will hold final coordination meetings and reviews.

3. CONSULTANT will prepare the final Drawings.
4. CONSULTANT will Sign and Seal the Final Construction Documents for advertisement and bidding.

Final Design Deliverables

1. Three (3) signed and sealed 11"x17" (half-size) copies of the design deliverable Drawings.
2. Three (3) signed and sealed copies of the design deliverable Technical Specifications (Project Manual).
3. One electronic signed and sealed copy of the Drawings, Technical Specifications, and OPCC in PDF format via USB Flash Drive or download link, and coordination with Owner's Procurement Department, helping facilitate advertisement for Bid via Owner's platform.

PART II: OR WWTF Expansion

Part II (Tasks 1 through 6)

- Task 1 – Project Management and Coordination
- Task 2 – Topographic Survey
- Task 3 – Geotechnical Investigation
- Task 4 – Environmental and Permitting Services
- Task 5 – Final Design Phase Services
- Task 6 – Bid Phase Services

Task 1: Project Management and Coordination

CONSULTANT shall provide project management services for the duration of the work described herein. The work under this task includes:

Task 1.1 Project Management

CONSULTANT will manage staff, subconsultants, and cross discipline coordination and communication. This task includes identifying key personnel who best fit this project, assigning work tasks, monitoring progress of engineers in multiple disciplines and sub-consultants when needed. CONSULTANT will perform miscellaneous project management and coordination duties throughout the project including tracking budget, maintaining the project schedule, preparing monthly invoices and monthly status reports.

Task 1.2 Design Milestone Review Meetings

CONSULTANT will coordinate milestone review meetings in accordance with OWNER's procedures. Reviews are anticipated at 30 percent, 60 percent, and 90 percent design completion. CONSULTANT will review, consolidate, and prepare written responses to OWNER's review committee comments.

Task 1.3 Board of County Commissioners (BOCC) Meeting

CONSULTANT will prepare a presentation and supporting documents to be presented to the Marion County BOCC that will illustrate the odor mitigation efforts associated with the project. This task includes one (1) meeting with the BOCC. Meeting minutes will be distributed to attendees. This task also includes two (2) workshops with the BOCC to be conducted at the 60% and 90% stages of the project design.

Task 1.4 Quality Control (QC)

Activities performed under this task consist of those general functions required to maintain the project schedule and budget and to control the quality of the work products defined within this scope to be consistent with CONSULTANT's standards and OWNER's expectations. QC procedures will include a technical review of the 30 percent and 60 percent design deliverables with a detailed inter-disciplinary cross check prior to submittal of the 90 and 100 percent design deliverable.

Task 2: Design Survey and Site Topographic Data Collection

CONSULTANT will perform all topographical surveying required for the entire project which includes the OR WWTF site. Permanent control points based on available existing benchmarks to USGS NAVD 88 datum will be established. The following items will be included in the Survey scope:

Task 2.1: Oak Run WWTF Survey

1. Perform Boundary Survey of existing site based on identification of the adjacent property and recorded deeds of ownership.
2. Perform survey for all structures top of wall and weir elevations.
3. Perform location survey of all structures and above ground improvements for the purposes of establishing a base file for use in preparation of design documents. Obtain elevation data for selected structures and piping as directed by Engineer.
4. Locate underground piping and utilities as marked by respective utility owner prior to surveyor conduction location survey work. Does not include underground utility designation by CONSULTANT. CONSULTANT will rely on OWNER furnished as-built plans for interpretation of utility and piping locations not specifically surveyed in the field.
5. Conduct Topographic design survey of site within project boundary plus 25 feet outside of the property boundary. Prepare digital terrain model of the site at 1 foot contour interval.
6. Perform tree location survey of all trees 2-inch DBH and larger that are within 100 feet inside of the project boundary limits.
7. Remobilization and perform location survey of all Geotechnical borings and piezometer well locations upon completion of drilling/installation. Obtain specific elevation and set temporary benchmark at each piezometer well.

Refer to surveying scope of services fee proposal included as **Attachment A** to this scope of services.

Task 3: Geotechnical Investigation

CONSULTANT will subcontract the preparation of Geotechnical Report including design recommendations for the project, siting boring locations & depths, tailoring field investigation & laboratory activities to specific requirements of the project as necessary, customary & in keeping with best practices for the project type & requirements. The following items will be included in the Geotechnical Investigation Scope:

Task 3.1: OR WWTF Geotechnical Investigation

1. Borings determined to be required for the following structures and processes:
 - a. New Process Tank
 - b. New Tertiary Filters
 - c. New Chlorine Contact Basin
 - d. New Process Splitter Box
 - e. New reclaimed storage tank and high service pumping
 - f. Effluent Disposal Site (Refer to Part III herein)
 - g. Site stormwater management pond(s)
2. Laboratory tests to determine subsurface conditions and provide recommendations for foundations and subsurface improvements to accommodate proposed structures and processes.
3. Field exploration, borings, undisturbed tube samples and laboratory analysis at potential effluent disposal (rapid infiltration basin (RIB) sites) and potential reclaimed storage basin sites to explore the general subsurface conditions, to interpret and evaluate the subsurface conditions with respect to effluent management, and to provide a groundwater mounding analysis to determine the capacity of the site (Sprayfield or RIBs), and groundwater flow direction.
4. Coordination with geotechnical subconsultant and oversight of activities, including selection and marking of boring locations and determination of necessary depths.
5. Analysis of laboratory results and preparation of detailed geotechnical report including field data (documenting boring logs and groundwater depths), laboratory data and design recommendations. Design recommendations shall include foundation recommendations, yard piping recommendations (pipe bedding, backfill, flexible connections, etc.), pavement recommendations and general construction recommendations (site preparation, excavation, subgrade preparation, dewatering, site backfill, etc.).
6. This report data will also be used by the CONSULTANT to perform the necessary evaluations for the on-site stormwater pond(s). The report data will also be used to perform a PONDSD software analysis to obtain the ultimate infiltration rate to maximize the capacity of the stormwater management system.

Refer to Geotechnical services scope of work and fee proposal included as **Attachment B** to this scope of services.

Task 4: Environmental and Permitting Services

CONSULTANT shall prepare and provide permit application packages and supporting documentation or exhibits for the following anticipated permit activities. Other permits may be required depending on the nature and scope of construction and extents of effluent disposal system components to be included for final design and permitting. CONSULTANT will prepare and submit permit applications as needed for the expansion of the WWTF. CONSULTANT will coordinate pre-application meetings with applicable regulatory permitting authorities prior to submitting permit applications. CONSULTANT will prepare Capacity Analysis Reports annually through the Design period.

Task 4.1: FDEP Wastewater Facility Permit Modification

A Permit modification for the OR WWTF will need to be conducted for the expanded capacity facility. The expanded new facility will require a complete wastewater facility permit modification that generally includes the following:

1. Prepare the FDEP application Forms 1 and 2A for construction of a domestic wastewater facility for the wastewater treatment plant modification and existing land application system.
2. Assemble plans, Basis of Design Engineering Report, Geotechnical Engineering Report, and other supporting data for FDEP submittal. Submit and process permit application with FDEP and respond to requests for additional information. (FDEP application fee to be paid by OWNER).

Task 4.2: Marion County Office of the County Engineer (Major Site Plan Permit)

CONSULTANT will submit civil site plans to the Office of the County Engineer to obtain Site Plan review and approval (over 9,000 SF impervious). CONSULTANT shall attend Development Review Committee (DRC) meetings (anticipated 3 meetings) for initial requested waiver considerations, to address review comments, and for final approval. This task does not include preparation of any Land Development Code Waivers after the initial request should additional waivers be necessary based on OWNER selected design variation. This task does not include preparing a traffic study or analysis.

Task 4.3: Water Management District Environmental Resource Permit (ERP Application)

Prepare Environmental Resource Permit application package for a General ERP permit per Southwest Florida Water Management District (SWFWMD) rules. Electronically file the application to SWFWMD (application fee to be paid by OWNER).

Task 4.4: Requests for Additional Information (RAI)

CONSULTANT shall provide all permit coordination, apply for permits as directed by the OWNER, and respond to all RAIs from the various permitting agencies until final permits are secured.

Task 4.5: Ecological Services

1. Preliminary Listed Species Assessment – Conduct pedestrian transects within the OR WWTF site to identify the conspicuous occurrence or potential occurrence of wildlife species considered to be endangered, threatened, or species of special concern as listed by the Florida Fish and Wildlife Conservation Commission (FWC) and/or the U.S. Fish and Wildlife Service (USFWS). Web-based data searches will be performed on FWC wildlife observation records, Bald Eagle nesting site locations and Florida Breeding Bird Atlas. The approximate location of listed species observed in the field and/or detected in the desktop searches will be noted on an aerial photograph depicting the site. Onsite habitat types will be characterized and

mapped in accordance with the Florida Land Use Cover and Forms Classification System. The methods and results of the field effort will be summarized in a letter report format. Population estimates, species-specific surveys, incidental take, or other wildlife conservation permitting are specifically excluded from this task.

2. Gopher Tortoise Burrow Survey and Population Estimate – Within the OR WWTF site, environmental scientists will conduct a series of linear, pedestrian transects to achieve 100% survey coverage of upland habitat in accordance with Florida Fish and Wildlife Conservation Commission (FWC) Gopher Tortoise Survey Guidelines. The purpose of this field effort will be to identify gopher tortoise burrows within the proposed construction areas and within 25-feet of the project limits. To determine an accurate estimate of the gopher tortoise population, gopher tortoise burrows encountered during the survey will be classified as active, inactive, or abandoned pursuant to standard FWC criteria and will be tabulated and horizontally located using a handheld Global Positioning System device. This field effort may be used as the basis for future gopher tortoise permit coordination with the FWC. Gopher tortoise burrow surveys are only valid for 90-days and an additional survey will be required at least 90-days prior to construction activities. Deliverables will include a letter report detailing the results of the field effort and a map denoting the location of potentially occupied gopher tortoise burrows. The results of this investigation will be used to prepare the necessary permit application to be submitted to the FWC by Contractor, if required.

Task 5: Final Design Phase Services

CONSULTANT will provide Final Design Phase Services for the PROJECT as defined in the Final Conceptual Design Document (CDD) and the associated Technical Memoranda. The PROJECT will include:

- (1) expand the existing facility to 3.5 MGD AADF WWTF and O&M Improvements

CONSULTANT will prepare complete contract documents (plans and specifications) for bidding of one (1) construction contract for the work associated with the PROJECT as defined in the Final CDD and associated Technical Memoranda. The Final Design Phase includes 30% Design, 60% Design, 90% Design, and 100% Design (Bid Documents) milestones. Specific tasks associated with each design milestone are defined as follows:

Task 5.1: 30% Design Services

1. CONSULTANT will perform geotechnical and survey investigation.
2. CONSULTANT will communicate with permitting and regulatory agencies as required.
3. CONSULTANT will hold an internal multi-disciplinary design workshop.
4. CONSULTANT will finalize design criteria requirements and develop the Draft Preliminary Design Report.
5. CONSULTANT will review the OWNER's front-end documents for construction contracts and procurement and develop a preliminary table of contents for the technical specifications.
6. CONSULTANT will generate and submit 30% design deliverable based on the Final CDD, including the hydraulic profile, site plan, mass flow diagrams, and other general design information. Preliminary drawings will be developed for the new unit processes and equipment, as well as for the modifications to the existing treatment plant.

7. CONSULTANT will develop the application package required to obtain the new FDEP operating permit for the expanded OR WWTF.
8. CONSULTANT will develop the Opinion of Probable Construction Cost (OPCC).
9. CONSULTANT will perform the internal technical review of the 30% design deliverable.

Task 5.2: 60% Design Services

1. CONSULTANT will review and incorporate OWNER's comments on the 30% design deliverable. CONSULTANT, in conjunction with the OWNER, will identify elements of the design that will be "frozen" and elements that are still under review by the OWNER.
2. CONSULTANT will hold an internal multi-disciplinary design workshop.
3. CONSULTANT will develop the Final Preliminary Design Report.
4. CONSULTANT will develop preliminary versions of all technical specifications.
5. CONSULTANT will advance the process mechanical design to 80% completion.
6. CONSULTANT will advance other design disciplines (structural, instrumentation & control (I&C), electrical, heating ventilation and cooling (HVAC)) to 50-60% completion.
7. CONSULTANT will communicate with permitting and regulatory agencies as required. CONSULTANT will finalize the permit application package for submittal to FDEP.
8. CONSULTANT will perform initial reviews of biddability and constructability.
9. CONSULTANT will develop and submit the 60% design deliverable, including updated OPCC.
10. CONSULTANT will perform the internal technical review of the 60% design deliverable.
11. CONSULTANT will submit 60% design plans to regulatory agencies for permitting.

Task 5.3: 90% Design Services

1. CONSULTANT will review and incorporate OWNER's comments on the 60% design deliverable. All elements of the design will be "frozen" following incorporation of the OWNER's 60% design deliverable comments.
2. CONSULTANT will advance the process mechanical design to 95% completion, and all other design disciplines to a 90% or higher completion.
3. CONSULTANT will prepare the 90% Project Manual with complete technical specifications, the Bid Form and completed "front end documents". CONSULTANT will use a combination of the OWNER's and CONSULTANT's standard specifications modified as necessary to accommodate local conditions. Specification format will be the CONSULTANT's standard format.
4. CONSULTANT will perform internal back-checking and cross-checking between design disciplines and between drawings and specifications.
5. CONSULTANT will perform final biddability and constructability reviews.
6. CONSULTANT will communicate with permitting and regulatory agencies as required.
7. CONSULTANT will develop and submit the 90% design deliverable, including updated Opinion of Probable Construction Cost.

Task 5.4: Bid Documents

1. CONSULTANT will review and incorporate OWNER's comments on the 90% design deliverable.
2. CONSULTANT will hold final coordination meetings and reviews.
3. CONSULTANT will prepare final Project Manual.
4. CONSULTANT will prepare the final Drawings.
5. CONSULTANT will Sign and Seal the Final Construction Documents for advertisement and bidding.

Final Design Deliverables

1. Three (3) signed and sealed 11"x17" (half-size) copies of the design deliverable Drawings.
2. Three (3) signed and sealed copies of the design deliverable Technical Specifications (Project Manual).
3. One electronic signed and sealed copy of the Drawings, Technical Specifications, and OPCC in PDF format via USB Flash Drive or download link, and coordination with Owner's Procurement Department, helping facilitate advertisement for Bid via Owner's platform.

Task 6: Bid Phase Services (Lump Sum)

The work under this task will include the following. CONSULTANT assumes the work will be bid as one (1) project:

Task 6.1: Bid Phase Services

1. CONSULTANT will attend bid opening and assist MCU at the pre-bid conference.
2. CONSULTANT will respond in writing to questions from bidders and prepare addenda, coordinate with OWNER as necessary.
3. CONSULTANT will prepare the Recommendation of Award Letter that includes the following required content:
 - a. Check for math errors and reconciliation of any mathematical discrepancies.
 - b. Review for unbalanced bid items.
 - c. Certified Bid Tabulation.
 - d. Review of contractor's qualifications, financial standing and references provided.
 - e. Recommendation to award.
4. CONSULTANT will attend Board of Supervisors Meeting and present recommendation for award of Contract for Construction, as required.
5. CONSULTANT will produce and transmit three (3) hard copies of the Conformed Drawings (11x17), Specifications and Project Manual to the OWNER, ready for execution by the selected Contractor, with the OWNER's Notice of Intent to Award (NOI).

PART III: Effluent Disposal

To obtain full expanded capacity, additional effluent disposal capacity is required. At this time, the option to consider rerating the existing rapid infiltration basins (RIB's) at Oak Run can be included. This Scope of Services PART III is intended to provide OWNER two categories of service scopes to consider effluent disposal capacity increase as follows:

- Task 1 - Investigation and evaluation of existing RIB re-rating to a higher capacity
- Task 2 - Investigation and evaluation to utilize the Spruce Creek Preserve old sprayfield site (Reference FDEP permit FLA016867-009, expired Sept. 6, 2015) to establish additional effluent disposal capacity.

CONSULTING services can be provided to pursue defining a specific site or sites(s), remote from the existing OR WWTP, for OWNER to acquire the right of use and/or obtain ownership of land(s) for the specific use as an effluent disposal site. Until a specific site is identified and obligated (legally established for due diligence access and review) a site-specific scope and definition of required design stage and permitting work cannot be defined.

During the initial work performed for the investigation of the SW Service Area Wastewater Systems, several candidate locations for effluent disposal and management of reclaimed water were identified, considered, and conceptually evaluated. The conceptual evaluations were summarized in the Southwest Service Area Design Project - Conceptual Design Report, dated February 2024. More specifically, Parts 8 and 9 of the report provided locations, sizes, and characteristics of several potential sites outside of the current Oak Run Facilities including Spruce Creek Preserve, that could be further pursued to consider availability and feasibility. In addition to the Spruce Creek preserve site as further defined below, a separate proposal(s) can be provided to OWNER to begin the evaluations for other offsite effluent disposal sites when OWNER is ready to proceed with that work.

Task 1: Existing RIB Rerating Investigation

Investigation and evaluation regarding rerating of the effluent disposal capacity of the existing RIB's at OR WWTP. Conduct site investigation and investigation of historical documentation, soils data and monitoring well information to determine if additional geotechnical evaluation is recommended with a reasonable expectation that the existing RIB's capacity may be increased. If the investigation presents a reasonable expectation, additional work will involve supplemental site investigation, Geotechnical subsoil exploration and testing, Piezometer well installation and data collection, groundwater mounding and long-term hydrogeological modeling and analysis, concluded with the presentation of a report of findings and evaluation results. CONSULTANT shall engage the services of a geotechnical engineering company to conduct onsite testing and well construction and modeling. Refer to geotechnical services scope of work and fee proposal included as **Attachment C** with this document.

Task 2: Design Evaluation and Development of Effluent Disposal system at Spruce Creek Preserve Site (approx. 13.67 Acre total property).

Utilizing historical topographic and boundary survey data obtained from the subject property records, CONSULTANT will review existing monitor well data, groundwater depth information, topography and soils conditions. CONSULTANT will evaluate the comparison of the historical spray irrigation slow rate system (previously permitted for 0.95 MGD) to a new RIB system at the site, if feasible and greater capacity, within the available property area. Consider stormwater management and setback requirements, terrain, and zone of discharge requirements.

1. Select soil boring locations and coordinate with geotechnical engineer to conduct supplemental deep soil borings and sites specific testing.
2. Conduct site specific mounding analysis and hydrogeologic analysis of the site layout to determine and evaluate maximum capacity of the proposed disposal system.
3. Design and prepare site plan and details for effluent disposal system, including site access, drainage, buffer, and effluent distribution system.
4. Based on site layout, utilize, if possible, the existing groundwater monitor well system. If it is determined that another well(s) are required, CONSULTANT will provide design and details for the monitor well(s). Includes preparation of technical specification for ground water monitor well.
5. Provide information and details for inclusion in the Preliminary Engineering Report and FDEP Construction permit application regarding effluent disposal system design and components.

Qualifications, Exceptions and Assumptions

The following qualifications, exceptions and assumptions were used in the development of this Scope of Services assignment:

1. PART I and PART II of this scope of services will be performed concurrently.
2. OWNER (through the County land division) is to coordinate and administer all land purchase agreements and easement acquisitions.
3. It is understood that the OWNER has acquired the 10 acres of land adjacent and west of the OR WWTF site and CONSULTANT will be allowed access to that site upon notice to proceed.
4. PART III Effluent Disposal Site Selection Fee and Services are based on only evaluating the Spruce Creek Preserve site noted in Part III above. Additional site(s) requested to be investigated will be addressed as supplemental services on a case-by-case basis only by OWNER approval of an amendment to the project scope of service and fee schedule. Further investigation or pursuit of potential sites reported outside of the current Oak Run and Spruce Creek Preserve sites are not included in these services.
5. OWNER to pay all permitting fees Application fees for permits and regulatory fees, however, should CONSULTANT be requested by OWNER to pay said fees then CONSULTANT shall be reimbursed for total amount paid.
6. This Scope of Services does not include a land use change or zoning change and does not include a Comprehensive Plan change or atlas amendment. Should a zoning change be necessary to achieve the desired public utility use or development of any specific property included in the project, a supplemental planning and zoning services scope and fee proposal can be developed and submitted to OWNER for review and amendment to CONSULTANT'S contract.
7. This Scope of Services proposal is based on rules and regulations in effect as of the date of this proposal. Changes in rules, regulations, or codes which affect the degree of engineering work identified in the scope of services shall be quantified by CONSULTANT and considered additional services to this proposal.
8. Scope of Services does not include performing operation or maintenance of the WWTF, monitoring operating permit conditions for the WWTF, or performing construction management services for the contractor.
9. Additional tests beyond those already described in this scope of services, such as water quality laboratory tests, monitor well tests, specialized geophysical testing, steel thickness, paint thickness or pressure vessel testing, or other studies such as air quality, EPA priority pollutant Phase 1 assessment, noise study or lighting intensity study is not included in CONSULTANT's base fee schedule.
10. Asset management tables are not included in this task order and will be provided by the Contractor.
11. Appearances before courts or boards on matters of litigation or hearings related to the project, on behalf of OWNER representation, is not included in CONSULTANTS basic

EXHIBIT B COST PROPOSAL

Attachment A
Marion County Utility Department
Oak Run WWTF Expansion and Effluent Management Project
Fee Estimate

Part I - O&M Improvements													
Task	Senior QA	Senior Project Manager	Senior Professional Engineer	Professional Engineer	Engineering Intern II	Senior CADD Designer	CADD Designer	Construction Manager	Construction Inspector	Clerical/ Administrative/ Project Controller	Total Hours	Total Cost	
Rates	\$245.00	\$230.00	\$195.00	\$165.00	\$112.00	\$135.00	\$125.00	\$140.00	\$112.00	\$65.00			
Part I - O&M Improvements													
Task 1 Bid Documents													
1.1 - Bid Documents	40	32	60	120	320	48	360	0	0	40	1,020	\$	138,580.00
Subtotal Task 1	40	32	60	120	320	48	360	0	0	40	1,020	\$	138,580.00
Part II - OR WWTF Expansion													
Task 1 Project Management & Coordination													
1.1 - Project Management	0	220	0	0	0	0	0	0	0	80	300	\$	55,800.00
1.2 - Design Milestone Review Meetings	0	24	80	80	60	0	0	0	0	84	328	\$	46,500.00
1.3 - BOCC Meeting & Workshops(1+2)	0	30	24	0	0	0	0	0	0	0	54	\$	11,580.00
1.4 - Quality Control (QC)	0	44	0	40	20	0	16	0	0	20	140	\$	22,260.00
Subtotal Task 1	0	318	104	120	80	0	16	0	0	184	822	\$	136,140.00
Task 2 Design Survey and Site Topographic Data Collection													
2.1 - Oak Run WWTF Survey	16	8	8	0	0	0	0	0	0	0	32	\$	7,320.00
Subtotal Task 2	16	8	8	0	0	0	0	0	0	0	32	\$	7,320.00
Task 3 Geotechnical Investigation													
3.1 - Oak Run WWTF Geotechnical Investigation	8	8	8	0	0	0	0	0	0	0	24	\$	5,360.00
Subtotal Task 3	8	8	8	0	0	0	0	0	0	0	24	\$	5,360.00
Task 4 Environmental and Permitting Services													
4.1 - FDEP Wastewater Facility Permit Modification	6	0	20	40	60	0	0	0	0	8	134	\$	19,210.00
4.2 - Marion County Building Department	0	8	8	16	0	0	0	0	0	2	34	\$	6,170.00
4.3 - Water Management District Environmental Resource Permit (ERP Application)	0	4	8	40	16	0	0	0	0	2	70	\$	11,002.00
4.4 - Requests for Additional Information (RAI)	0	0	48	0	0	0	0	0	0	0	48	\$	9,360.00
4.5 - Ecological Services	0	4	0	0	16	0	0	0	0	0	20	\$	2,712.00
Subtotal Task 4	6	16	84	96	92	0	0	0	0	12	306	\$	48,454.00
Task 5 Final Design Phase Services													
5.1 - 30% Design Documents	60	80	240	600	720	24	960	0	0	24	2,708	\$	384,340.00
5.2 - 60% Design Documents	80	120	480	800	960	24	1,400	0	0	60	3,924	\$	562,460.00
5.3 - 90% Design Documents	40	60	180	560	620	40	800	0	0	60	2,360	\$	329,840.00
5.4 - Bid Documents	24	40	0	140	308	8	240	0	0	24	784	\$	105,316.00
Subtotal Task 5	204	300	900	2,100	2,608	96	3,400	0	0	168	9,776	\$	1,381,956.00
Task 6 Bid Phase Services													
6.1 - Bid Phase Services	2	40	0	40	60	0	48	0	0	28	218	\$	30,830.00
Subtotal Task 6	2	40	0	40	60	0	48	0	0	28	218	\$	30,830.00
Tasks 1 thru 6 - LABOR SUBTOTAL	276	722	1,164	2,476	3,160	144	3,824	0	0	432	12,198	\$	1,748,640.00
% Labor per Category	2%	6%	10%	20%	26%	1%	31%	0%	0%	4%	100%		
Sub Consultants													
Hydrogeologist - Task 2 Andreyev Engineering, Inc.												\$	15,121.00
Survey and SUE - Task 2 (Allowance)												\$	78,650.00
Geotechnical - Task 3 Andreyev Engineering, Inc.												\$	45,345.00
Specialty Environmental - Task 4 Modica & Associates (Allowance)												\$	10,000.00
Sub Consultants SUBTOTAL - PART I												\$	149,116.00
LUMP SUM TOTAL - PART I & II												\$	1,897,756.00
Part III - Effluent Disposal													
Effluent Disposal Site Selection													
Task 1 - Existing RIB Rerating Investigation (Lump Sum)	24	0	0	0	120	0	0	0	0	0	144	\$	19,320.00
Task 2 - Design Development of Effluent Disposal at Spruce Creek Preserve Site	16	16	80	0	120	0	240	0	0	0	472	\$	66,640.00
Subtotal Task Part II	40	16	80	0	240	0	240	0	0	0	616	\$	85,960.00
Sub Consultants													
Hydrogeologist - Task 1 Andreyev Engineering, Inc.												\$	15,120.00
Sub Consultants SUBTOTAL - PART III												\$	15,120.00
TOTAL - PART III												\$	101,080.00
GRAND TOTAL LUMP SUM												\$	1,998,836.00