

Hernando County Board of County Commissioners
15470 Flight Path Dr.
Brooksville, FL 34604

Construction Change Order

Department: Hernando County Utilities Dept
Vendor Name: Coastal Engineering Associates

Purchase Order No.: 22001066
Contract No.: 21-RG0045

Change Order No.: 6
Change Order Date: 06/23/2026

The Project is Changed as Follows:

Contract Name: Septic to Sewer Conversion, District A, Phase 1 Engineering Services GMS 472

CO#6: Tasks 1-6 are to perform Final Design services, Permitting, Engineering Services portion of the Construction Contract Administration during the Construction phase for Sewershed 5.

Tasks 7-13 are to perform Final detailed design services for the gravity sewer system, pump stations, forcemain, and lot connections required to provide sanitary sewer service to District A Ph 2

Add line 4 (Tyler Line 3) Sewershed 5 Design/Eng svcs \$399,122.00

Line 4 B412-200-30043-40-53500-566350-XC553 \$399,122.00

Add line 5 (Tyler line 4) Septic to Sewer District A Phase 2 Engineering Services \$999,999.00

Add line 6 (Tyler Line 5) Septic to Sewer District A Phase 2 Engineering Services \$637,905.00

Lines 5 and 6 B412-200-30043-40-53500-566350-XC553 \$999,999.00 and \$637,905.00

Old PO total \$2,497,604.00 New PO Total \$4,534,630.00

PO will remain open through project completion.

Total Addition/Deduction this Change Order: \$ 2,037,026.00

The Original Contract Sum was: \$ 1,798,678.00
Net Change by previously authorized Change Orders: \$ 698,926.00
The Net Amount of this Change Order is: \$ 2,037,026.00

The new Contract Sum including this Change Order will be \$ 4,534,630.00

The Contract Time will be changed by this Change Order (Days): N/A
The Date of Final Completion as of the date of this Change Order therefore is: N/A

Engineer of Record Name: Brian M. Malmberg, P.E., Florida Reg. #59405

Engineer of Record Signature:

Date: 6/23/2026

Vendor Authorized Signer Name

Project Manager Name:

Brian M. Malmberg, P.E., Florida Reg. #59405

Vendor Authorized Signature:

Project Manager Signature:

Date:

6/23/2026

Date:



EXHIBIT A – Scope of Services

Engineering Services for Septic to Sewer District A – Sewershed #5 Contract No. 21-RG0045/PH – Change Order #6 April 10, 2026

INTRODUCTION

The original design of the Hernando County District A – Phase 1 Septic-to-Sewer project included Sewershed #2 (SS-2), Sewershed #5 (SS-5) and Sewershed #6 (SS-6). The Coastal team completed the design of all three sewersheds. However, the County moved forward with the permitting and construction of SS-2 and SS-6 while placing a hold on SS-5. The County would like to move forward with permitting and construction of SS-5 at this time.

The SS-5 sewer system consists of one sewershed with 174 manholes conveying wastewater through 31,620 LF of 8-inch PVC gravity mains, 2,740 LF of 4-inch PVC forcemain and one new lift station. The original SS-5 design contains 225 occupied and 27 vacant residential units. The existing design of SS-5 includes the implementation of a combination gravity/low-pressure system component along the Elgin Boulevard corridor. As part of this update, the County would like to remove the low-pressure system and any proposed sewer connections for the lots located in this area.

Tasks 1 through 6 of this Scope of Services is for Coastal to perform Final Design Services, Permitting, and the Engineering Services portion of the Construction Contract Administration during the construction phase.

Hernando County will provide onsite inspection services and daily contractor/citizen coordination throughout the project to include obtaining daily milestones from the contractor, coordinating required material and installation testing, communication with the Engineering team, communicating HCUD standard specifications and requirements to the contractor, etc. The Hernando County inspector shall provide daily inspection reports to the Engineering team to track progress and document construction activities.

Tasks 7 through 13 of this Scope of Services to be performed shall consist of the final detailed design services for the gravity sewer system, pump station(s), forcemain and individual lot connections required to provide sanitary sewer service to District A Phase 2 of the Hernando County Septic to Sewer area. This phase is comprised of Pump Stations A-1 and A-4 from the 2016 Septic to Sewer Study and 2020 Master Wastewater Plan. This phase contains approximately **426 connections**. These connections consist of approximately **384 occupied lots and 42 vacant lots** with no anticipated commercial connections. The 10% conceptual design was completed in 2024, see Scoping Figure. Design services will include proper abandonment of septic tanks on the individual lots.

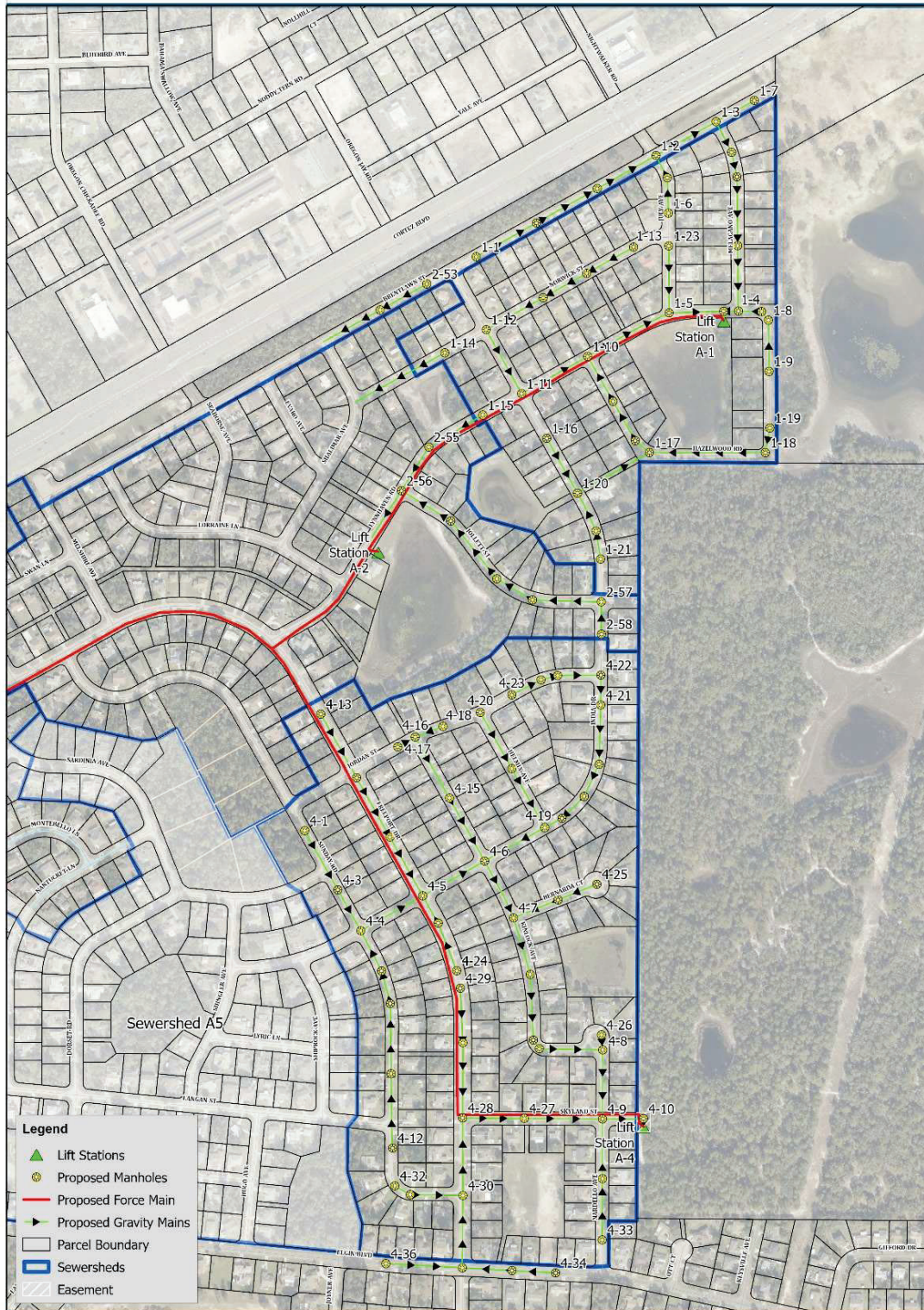
Key elements of District A Phase 2:

- 426 connections (384 occupied, 42 vacant)
- Assume approximately 96 sanitary manholes will be required
- Assume approximately 20,300 LF of gravity sewer pipe will be required
- Assume approximately 5,200 LF of force main pipe will be required.
- Two (2) lift station s will be required
- Approximately 25,000 LF of right-of-way impacted

Scoping Figure

10% Conceptual Layout

Hernando S2S Phase 2



- Legend**
- ▲ Lift Stations
 - Proposed Manholes
 - Proposed Force Main
 - Proposed Gravity Mains
 - ▭ Parcel Boundary
 - ▭ Sewersheds
 - ▨ Easement



JonesEdmunds

SCOPE OF SERVICES

TASK 1 PROJECT MANAGEMENT

Develop and implement a financial and information management system for the project. Maintain project financial files and prepare a project management plan and schedule for tracking throughout the project duration. Provide monthly accounting/invoicing, project communication and coordination. Monitor the project progress and manage the project in conformance with the contract.

- Prepare a project schedule
- Conduct project meetings to review proposed project modifications and coordinate work scheduling.
- Prepare meeting agendas and meeting minutes for distribution to the team.
- Assist with legal descriptions and exhibits required for MSBU modification and project coordination.

TASK 2 FINAL CONSTRUCTION DOCUMENT MODIFICATION

Final construction document modifications include updates to the design plans, technical specifications, and EOPCC to reflect the removal of the duplex grinder pump stations and associated services. This will include updating the SS-5 plan/profile sheets, civil detail sheets, Individual Lot Sewer Hookup Exhibits, bid form, and measurement and payment specification section.

Design modification will include:

- Removal of Four (4) duplex grinder stations
- Removal of approximately 1,150 linear feet (LF) of small diameter force main
- Modification to the CAD files for approximately 32 plan sheets to reflect the removal of previously designed infrastructure and services utilizing low pressure, See Figure below. Modifications will only include crossing out items and labeling them as no included for construction.
- Updates to SS-5 construction documents based on permitting comments received on SS-2 and SS-6. Only modifications received in RAI #1 and #2 will be included.
- Modification to Technical Specifications based on the updates included in this task.
- Update bid form
- Prepare revised Engineer's Opinion of Probable Cost (EOPC)

Figure Removed Grinder Station Parcels



TASK 3 PERMITTING

The Team will submit the required permitting applications to construct SS-5.

- A. We expect to submit the following permit applications:
- Hernando County Right-of-Way Letter of Approval. Note that this includes preparation of a Storm Water Pollution Prevention Plan (SWPP) that meets the minimum erosion and sedimentation control measures required by Hernando County LDC, as well as any other items necessary to obtain the Right-of-Way Letter of Approval.
 - HCUD Self-Permitting (FDEP) Sewer Permit, including a pre-application meeting with the HCUD reviewer.
 - It is anticipated that the selected contractor will obtain the Plumbing permit(s) for final onsite connection and the Septic Tank Abandonment Permits for the individual lots.
- B. Permit Submittal Scope will Include:
- Preparation of applications, exhibits, drawings, and specifications as necessary for execution and submittal.
 - Furnishing additional information about the project design and making revisions to the application documents as required for permit approvals.

- Response to one (1) request for additional information (RAI).
- Provision of copies of permits and related documents to HCUD.
- County to provide application fee payments for submitted permits.

TASK 4 CONSTRUCTION CONTRACT ADMINISTRATION

Coastal will provide Contract Administration services during construction, documenting that the construction is completed in general conformance with the Drawings, Technical Specifications, and Permit Requirements. This task includes the office support required to review the Contractor's submittals, address questions, and maintain the paperwork for the Final Completion Certificate Forms. We have also included time for project meetings, Engineer of Record site visits, and field coordination.

Construction Contract Administration services are based on a construction schedule of **520** calendar days to substantial completion and **575** calendar days to final completion. Coastal will provide the following Construction Contract Administration services:

PROJECT DOCUMENTATION:

- Submittals: Coastal will receive, log, review, and issue comments on project construction submittals. Project submittals include administrative submittals (i.e., construction schedules and work plans), shop drawings and product data for the materials to be incorporated into the project, warranties, samples, operations, and maintenance manuals. Coastal estimates approximately **45** submittals for this project. This Scope of Services includes an initial review and one re-submittal review for each submittal. Submittals will be immediately returned to the Contractor if all deviations are not listed as requested on the project forms.
- Requests for Information (RFIs): Coastal will review and respond to up to **20** RFIs submitted by the Contractor. RFIs are submitted by the Contractor when questions regarding the Construction Documents arise that need clarification from the Engineer. RFIs generated by the Contractor based on unclear or incorrect design information will be the responsibility of the design team and will not be counted against the review total listed above.
- Change Orders: Coastal will notify the County immediately when an issue arises that may affect the cost or time of the project and will process up to **6** minor Change Orders. Change Orders will be submitted to the County for approval before being issued to the Contractor.
- Construction Field Orders (CFOs): Coastal will prepare up to **30** CFOs. CFOs are used for minor adjustments to the Contract Documents that can be completed in the field and have no effect on the project cost or time.
- Proposed Contract Modifications (PCMs): Coastal will review up to **10** PCMs for conformance with the Contract Documents and process the PCMs as requested by the County. PCMs may be submitted by the Contractor when deviations to the Contract Drawings or Specifications occur that they believe affect the cost of the project. PCMs will be submitted to the County for approval before being issued to the Contractor.
- Notices of Non-Compliance: Coastal will assist with up to **4** Notices of Non-Compliance as coordinated with the County. Coastal will prepare, log, and issue the Notices of Non-Compliance.
- Pay Applications: Coastal will process up to **20** Pay Applications. We will receive the Pay Applications from the Contractor, log and review them with the Resident Observer (RO) and the County's representative and make payment recommendations to the County.

MEETINGS AND SITE VISITS:

- Coastal will conduct one pre-construction conference at a location selected by the County. At the pre-construction conference, the fully executed Contract Documents will be distributed and the Notice to Proceed date will be agreed upon by all stakeholders on the project. County

- representatives, FDEP, and the Contractor will be invited to the preconstruction conference.
- Coastal will hold up to **18** progress meetings (approximately one meeting per month) during the project. The progress meetings are to review the construction progress up to that point, review the monthly pay application, and discuss any issues that have occurred on the project. Meeting agenda and minutes will be prepared by Coastal.
- The Coastal Contract Administrator, Project Manager, or Engineer of Record will also make bi-weekly site visits during construction progress to verify work is progressing in general conformance with the Contract Documents. One bi-weekly site visit each month will occur on the same day as the progress meeting.

TASK 5 LIMITED CONSTRUCTION OBSERVATION

Coastal will provide limited Construction Observation services throughout the contract duration period to observe construction progress and provide coordination with citizens. The services managed by the Inspector are listed below:

- Review progress and installation at select intervals for conformance with the Contract Documents.
- Review Daily Reports provided by the HCUD inspector.
- Attend weekly progress meetings and be available on an “as needed” inspection basis throughout the project duration up to an estimated eight (8) hours per week.
- Create file for maintaining project photographs.
- Interact and communicate with residents on an as-needed basis. Coordinate with the HCUD inspector on resident communication.
- Pay application review for verification of work progress.
- Track and maintain field files.
- Assist with punch-list walkthroughs with the County and project completion items.
- Maintain communication and coordination efforts with the Construction Administrator throughout the project duration including any construction documents, field issues, and FDEP Certification of Construction Completion permitting requirements.

The Coastal Construction Inspector will manage, on average, an **eight (8) hour work week** for the project duration of **575** calendar days. Overtime hours have not been included with this proposal and in the event the contractor requests overtime work, Coastal will coordinate with the County on how to proceed.

TASK 6 CONSTRUCTION CONTRACT CLOSEOUT

Contract Closeout services include substantial and final completion walkdowns, punch list preparation, and final certification of construction completion.

- Substantial Completion Walkdown: Coastal will conduct one **(1)** Substantial Completion Walkdown with the Contractor and County. The walkdown will be performed by project team members such as the Project Manager, the Engineer of Record, and the Contract Administrator to observe that the system is operating as designed. We will prepare a punch list of items to complete during Substantial Completion walkdown and verify that everything is complete at the Final Completion walkdown.
- Final Completion Walkdown: Coastal will conduct one (1) Final Completion walkdown once the sewershed has achieved Substantial Completion. The Final Completion Walkdown will be performed by project team members such as the Project Manager, the Engineer of Record, and the Contract Administrator accompanied by the County. This will be to observe that all punch list items are complete and that the Contractor has completed demobilization.
- FDEP Certification: Coastal will prepare the FDEP *Request for Approval to Place a Domestic*

Wastewater Collection/Transmission System into Operation (DEP Form 62-604.300(8)(b)) for the new sewer system.

- The Contractor's as-built drawings will be used for the Completion of Construction certification submitted to FDEP. The final Record Drawings for the project will be compiled and prepared at final certification of the entire project's completion.
- Record Drawings: Coastal will review the Contractor's CADD-based as-built drawings. After the as-built drawings are completed by the Contractor, we will incorporate them into Record Drawings and provide the County with electronic copies (.pdf format and original file format) of the Record Drawings. The final CADD as-built drawings will also be provided to the County.

TASK 7 DESIGN PROJECT MANAGEMENT

Develop and implement a financial and information management system for the project. Set up project financial files and prepare a project management plan that will be used throughout the project. The plan will summarize the project objectives, project schedule, project budget, communication plan, accounting/invoicing procedures, and project contact list. Monitor the project progress and manage the project in conformance with the contract.

- Prepare a project schedule
- Project Initiation: Conduct a project initiation meeting to clarify the requirements for the project, review pertinent available data, and present a work plan and initial work schedule.
- Documentation: Prepare and distribute meeting minutes for project initiation and design review meetings. Provide comment tracking list and follow-up through-out design review process.

TASK 8 DATA COLLECTION & FIELD REVIEW

8.1 Preliminary Schematic Design Document

- Conduct surface reconnaissance site visits: Review existing road/parcel conditions, the size and quantity of trees, potential utility conflicts, constructability concerns, and other factors in the field that could be a hindrance or impact to the routing of mains and services.
- Coordinate with other Stakeholders: Coordinate with HCUD Engineering, HCUD Operations & Maintenance, as well as the Hernando County Public Works Department during the design process. As applicable, coordinate with other potentially affected utility owners if locates indicate their utilities are within the proposed construction corridors.
- Locations for LS-1 and LS-4 will be finalized at the 30% design review meeting. Lift station locations must be finalized prior to mobilizing geotechnical investigation.

8.2 Design Survey

Provide Survey required for design, construction drawings, and permitting: This will include horizontal and vertical location of roadways, rights-of-way, utilities, trees, driveways, fences, signage, sidewalks, and other known improvements within the right-of-way. Monumentation in support of future construction stakeout will be required.

- Should it be required, the Consultant shall define specific locations where subsurface utility locate engineering is necessary to assist the surveyor. Examples of "subsurface utility locate engineering" include vacuum excavation and ground penetrating radar. Data gathered at connection and conflict point locations shall conform to ASCE 38-02 Quality Level A.
- It will also be necessary to conduct survey on existing developed lots. Prepare individual existing conditions surveys for each parcel depicting existing above ground improvements including, but not limited to, houses, trees, hedges, driveways, walks, etc. as well as the location of water and

sewer utility connections to the home, and the location of the existing septic tank, drainfield, and well (if any).

- The location and mapping of septic tanks and drainfields will be reliant on marks to be placed on the surface by the property owners, probing, and above ground evidence as marked by a locating service. The scope does not include replacing missing lot corners.
- The right-of-way and individual lot survey will include the size and location of trees that will potentially be impacted by the construction. No tree mitigation is anticipated with this project.

8.3 Geotechnical Engineering

Obtain information from a Geotechnical Engineering sub-consultant regarding sub-surface soils and their suitability for the proposed construction: Provide geotechnical engineering services (using a sub-consultant if necessary) including field exploratory work, laboratory and field testing, and professional guidance in tests to be made at locations based on drawings and designs. Services shall include geotechnical exploratory work such as soil borings and penetration tests, as well as any laboratory tests that may be required to provide information for design. Soil borings will generally be at intervals of 300 feet (at approximate sanitary sewer manhole locations) along the proposed pipe route and to five (5) feet below the proposed pipe invert. The design engineer shall assist in defining the required depths and locations of geotechnical services. Particular attention shall be given to borings at proposed pump station locations.

- The geotechnical firm will provide a geotechnical report interpreting the data obtained from the exploratory work and laboratory testing, and describing the subsurface conditions that can be anticipated during construction.

8.4 Individual lot Sewer Service Exhibits (“Hook-Up Exhibits”)

It is anticipated that each lot will require detailed design of a Hook-Up Exhibit. This task will utilize survey data (as described above) which will be used to produce a plan view depicting the proposed routing of sewer service piping (including sewer service minimum slopes) from the dwelling to the service stub-outs at the right-of-way line. This effort will include the following sub-tasks:

- Obtain existing record drawings of the project area including septic permit information from the Hernando County Health Department on the individual existing systems.
- Send out certified correspondence to the individual lot owners to set up onsite meetings prior to initiating survey. Send follow up certified correspondence a week prior to initiating onsite survey.
- Review the detailed parcel surveys.
- Perform a field reconnaissance to generally confirm acquired data and denote any additional information needs.
- In the event that a specific sewer service connection location cannot be confirmed in the field, the longest design route shall be shown for parcel owner coordination.
- Utilizing the information gathered/reviewed above, the design engineer will produce a DRAFT copy of each Sewer Service Exhibit showing the proposed service routings for review and approval by HCUD. The size and scale of the exhibits shall be such that details are readable and clear.
- Comments received as a result of HCUD review shall be addressed and reflected in FINAL copies of the Exhibits provided to HCUD.
- The design engineer shall anticipate coordination with the surveyor during the course of their work including review of draft work products or other information to ensure appropriate survey information is obtained for completion of the Sewer Service Exhibits.

TASK 9 DESIGN, CONSTRUCTION DRAWING, PERMITTING, AND BID DOCUMENT PREPARATION

Design shall be in accordance with HCUD Design Guidelines as well as the HCUD Water, Reclaimed Water and Wastewater Construction Specifications Manual, edition as of May 2026, as well as FDEP requirements, Chapter 64E-6 FAC and the Florida Building Plumbing Code. In addition, the Phase 2 design shall incorporate the requirements of the Davis Bacon Act and BABA funding for construction. Construction drawings shall use design practices followed in District A Phase 1 design and shall include:

- Demolition plans.
- Maintenance of Traffic standard details.
- On-lot hookups
- Sewer construction plans.
- Sewer profiles.
- Sewage pumping station detail plans.
- Sewer details.
- Other utility conflict resolution and restoration plans.
- Roadway and right-of-way restoration plans: Roadways and rights-of way will be reconstructed or repaired in accordance Hernando County DPW requirements.

9.1 Conceptual (30%) Design of Wastewater Collection System

- Prepare a Conceptual thirty percent (30%) Design deliverable including plan-view drawings to indicate the wastewater collection plan for the area. Locations of manholes, gravity sewer, forcemain, pumping stations, valves, and pipe sizes shall be shown on the drawings. One (1) pdf format USB or digital download link are required to be submitted for the thirty percent (30%) Design deliverable.
- The documents shall be prepared for the selection of a private construction contractor by a public competitive bid. Drawings shall be prepared in 24" x 36" sheet format. Plan and profile sheets shall be developed at a plan view scale of 1" = 20' (horizontal) and 1" = 2' (vertical).
- Meet with HCUD to obtain review comments on the Conceptual thirty percent (30%) Design. Resolve questions and revise documents to address comments while preparing the design for the next submittal.
- Conduct internal quality assurance/quality control (QA/QC) and constructability reviews.

9.2 60% Design Documents

- Prepare a sixty percent (60%) Design deliverable of the wastewater collection system including detailed drawings of the proposed wastewater pipeline construction and submit to HCUD for review and approval. One (1) pdf format USB or digital download link are required to be submitted for the sixty percent (60%) Design deliverable.
- Prepare a table of contents for technical specifications.
- Incorporate HCUD's comments, if any, to the previously submitted thirty percent (30%) Design deliverable.
- Submit pdf format of Sewer Service Hook-up Exhibits for a portion (dependent on available lot surveys) of existing house structures within the project area.
- Include FDOT Maintenance of Traffic (MOT) standard details and coordinate the proposed MOT

with the Hernando County DPW for approval.

- Prepare 60% Storm Water Pollution Plans and coordinate with Hernando County DPW.
- Conduct internal quality assurance/quality control (QA/QC) and constructability reviews.
- Meet with HCUD to obtain review comments on the sixty percent (60%) Design. Resolve questions and revise documents to address comments while preparing the design for the next submittal.

9.3 Permit Submittals

The Coastal Team will submit the required permit applications to construct this project.

A. We expect to submit the following permit applications:

- Hernando County Right-of-Way Letter of Approval. Note that this includes preparation of a Storm Water Pollution Prevention Plan (SWPP) that meets the minimum erosion and sedimentation control measures required by Hernando County LDC, as well as any other items necessary to obtain the Right-of-Way Letter of Approval.
- HCUD Self-Permitting (FDEP) Sewer Permits. This assumes one permit application will be completed that includes SS-1, SS-2, and SS-4.

B. Permit Submittal Scope will include:

- Preparation of applications, exhibits, drawings, and specifications as necessary for execution and submittal.
- We will prepare a response and associated design updates for up to two (2) Requests for Additional Information.
- Provision of copies of permits and related documents to HCUD.

9.4 90% Design Documents

- Prepare a ninety percent (90%) Design deliverable of the wastewater collection system including detailed drawings of the proposed wastewater pipeline construction and submit to HCUD for review and approval. An electronic pdf is required to be submitted for the ninety percent (90%) Design deliverable.
- Prepare the draft Technical Specifications package.
- Incorporate HCUD's comments, if any, to the previously submitted sixty percent (60%) Design deliverable.
- Submit pdf format electronic and hard copies of Sewer Service Hook-up Exhibits for remaining lots within project area.
- Include FDOT Maintenance of Traffic (MOT) standard details and coordinate the proposed MOT with the Hernando County DPW for approval. Incorporate any comments from the 60% design review meeting.
- Prepare 90% Storm Water Pollution Plans and coordinate with Hernando County DPW.
- Conduct internal quality assurance/quality control (QA/QC) and constructability reviews.
- Meet with HCUD to obtain review comments on the ninety percent (90%) Design. Resolve questions and revise documents to address comments while preparing the design for the next submittal.

9.5 100% Design Documents

- Prepare a one hundred percent (100%) Design deliverable of the wastewater collection system including detailed drawings of the proposed wastewater pipeline construction and submit to HCUD for review and approval. Two (2) full size sets of drawings and an electronic pdf are required to be submitted for the one hundred percent (100%) Design deliverable.
- Incorporate HCUD's comments, if any, to the previously submitted ninety percent (90%) Design deliverable and prepare Final Detailed Drawings and a Bid Form deliverable for the proposed work, including materials and equipment required. It is assumed only minor revisions to the drawings will be required. Major revisions due to changes in HCUD standards may require additional fee.
- Prepare the 100% Technical Specifications package.
- Include FDOT Maintenance of Traffic (MOT) standard details and coordinate the proposed MOT plan with the Hernando County DPW for approval. Incorporate any comments from the 90% design review meeting.
- Prepare 100% Storm Water Pollution Plans and coordinate with Hernando County DPW.
- Conduct internal quality assurance/quality control (QA/QC) and constructability reviews at each Project milestone.
- Bidding Documents to be provided to HCUD include drawings, bid form schedule with quantities, and text for inclusion into HCUD's Special Conditions, if needed. Provide one USB with electronic drawing files (pdf, Word, Excel and AutoCAD).
- Meet with HCUD to obtain review comments on the one hundred percent (100%) Design. Resolve questions and revise documents to address comments while preparing the design for the next submittal.

TASK 10 PROPERTY EASEMENT ACQUISITION ASSISTANCE

This task includes identifying specific tracts that may need to be acquired (a pump station site for instance), as well as any permanent easements that may need to be obtained. The scope of this work will include identification of the necessary acquisition, as well as providing a drawing and legal description in sufficient detail to support title research and acquisition.

TASK 11 PUBLIC OUTREACH

Provide assistance to the HCUD Public Outreach effort: Assistance may involve preparation of drawings and graphic presentation exhibits for use in town hall meetings with residents. Typically, this will include a general layout of the work proposed as well as a graphic representation of a sewer main installation, a new sewer service layout. The Coastal Team will not be responsible for setting up the venue time/place or taking meeting minutes at these Public Information Program engagements. This task includes one public meeting for SS-5 and two public meetings for Phase 2.

TASK 12 ENGINEER'S OPINION OF PROBABLE COST

Consultant will prepare opinions of probable construction cost at each stage of deliverables in accordance with the Association for the Advancement of Cost Engineering International, Inc. (AACE) for the purpose of assisting HCUD in preparing budget funding requests, and evaluating design options. Expected accuracy will be as follows: Class 4 estimate for thirty percent (30%) design deliverable; Class 3 estimate for sixty percent (60%) and ninety percent (90%); and Class 2 estimate for 100% design deliverable. The Engineer's Opinion of Probable Cost shall include all costs to complete the project, including the engineering construction oversight.

TASK 13 BIDDING ASSISTANCE

Hernando County Purchasing will administer the bidding process. The Consultant will provide support including assembly of proposal documents (plans, specifications, and bid forms), assistance in responding to proposers' questions (requests for clarification, requests for information), and assistance in evaluation of the proposals received.

SCHEDULE

Coastal will complete Sewershed 5 Scope of Services in accordance with the Contractor's scheduled times included in the Construction Contract. The time frames included in the Construction Contract are **520** calendar days to substantial completion and **575** calendar days to final completion.

Coastal will complete Phase 2 design bid-ready plans within **18 months** from project kickoff meeting. The full Scope of Services will be completed in **730** calendar days from project kickoff meeting.

COMPENSATION

The compensation for Professional Services described in this Scope of Services will be on a lump sum basis for **\$2,037,026.00**. The Fee Schedule in Exhibit B includes the level of effort and the corresponding costs for this authorization.

PROPOSAL CLARIFICATIONS

The following proposal clarifications govern this Scope of Services. Excluded items may be provided by Coastal as an Additional Service upon written agreement.

1. Total construction duration from Notice to Proceed to Substantial Completion is **520** calendar days and **575** calendar days to final completion. If the construction period is extended additional fees may be required.
2. Installed quantities included on the pay applications will be verified and approved by the HCUD Construction Resident Observer who is onsite daily logging the installed materials before Coastal will certify the pay application as Engineer of Record.
3. As-built survey preparation (including topographic surveying of as-built site conditions) is excluded from this Scope of Services and is required to be performed by the Contractor under the Construction Contract.
4. Obtaining a County building permit will be handled by the Contractor using signed-and-sealed drawings provided by Coastal.
5. The quantities, labor hours, and reimbursable expenses listed in this fee schedule are intended as documentation and justification for the total cost of the project. Deviations or changes in the quantities, labor hours, and reimbursable expenses within a task is not justification for nonpayment provided the total project fee has not been exceeded.
6. We have assumed a construction drawing total sheet count of approximately 200 sheets for all non-MOT sheets.
7. HCUD will provide available as-built data of proposed project site and existing infrastructure within one month of date of notice to proceed.
8. Permitting services beyond those specifically included in the Scope of Services are excluded.
9. All permit fees, plan review fees, or other regulatory fees including but not limited to Hernando County and FDEP permits are excluded from this Scope of Services and are assumed to be paid directly by HCUD.
10. The Consultant will provide responses to up to two (2) RAIs to permitting agencies. The responses to RAIs will be submitted to HCUD for review and approval prior to submittal to permitting agencies.
11. Archaeological surveying and permitting are excluded from this Scope of Services.
12. The overall project schedule assumes HCUD will provide review comments within 2 weeks for the 30% submittal, and 3 weeks for the remaining 60%, 90% and 100% submittals.

13. Driveways to be replaced within the project site will be replaced in-kind from the right-of-way line to the edge-of-pavement.
14. The project site is assumed to be free of soil and groundwater contamination. A contamination study or remediation planning is not included in this scope of services.
15. Hazardous materials (asbestos, metals, PCBs) investigation, testing, analysis, and abatement design are excluded.
16. The scope of services assumes that there will be a total of two (2) lift station sites for this project. HCUD standard lift station detail sheets and specifications will be utilized for this project.
17. A wildlife study will be conducted to assess the potential impact to threatened or endangered species that may exist within the project boundaries. It is anticipated that gopher tortoise burrows will be identified with environmental review. A preliminary gopher tortoise burrow study will be provided to assist in determining mitigation costs. Environmental services (e.g., mitigation, species) are excluded from this scope and are not expected to be required.
18. The subsurface utility engineering scope as provided is based on up to 20 utility test holes (Quality Level A).
19. The geotechnical exploration as provided is based on approximately 120 borings. Shallow borings will be conducted at manhole while deeper borings will be required for the lift stations.
20. HCUD representatives will obtain temporary construction easements from property owners as needed to access private property for survey, design, permitting and construction.

Task Order No. 6
Contract 21-RG0045/PH Change Order #6
Hernando County Septic Sewer District A - Phase 1 Sewershed #5
EXHIBIT "B" FEE SCHEDULE

TASK	PROJECT ACTIVITY	Coastal		Coastal		Coastal		Coastal		Coastal		Coastal		Coastal		Coastal		JEA		JEA		JEA		JEA		JEA		JEA		JEA		Basic Activity \$ AMOUNT		Man Hrs by Activity	Avg Hly Rate
		Brian Malmberg, PE Principal Engineer Man Hrs	Cost	Christina Malmberg, PE Project Manager Man Hrs	Cost	Raqeeb Hassan Project Engineer Man Hrs	Cost	Carvin Henry CEI Sr. Const. Inspector Man Hrs	Cost	Joe Gallman Sr. Envr. Scientist Man Hrs	Cost	Scott Osborne Sr. Land Surveyor Man Hrs	Cost	Survey Technician Man Hrs	Cost	Survey Crew Man Hrs	Cost	Brian Kernan Project Officer Man Hrs	Cost	Senior Project Manager Man Hrs	T.J. Lilo Const. Engineer Man Hrs	Cost	Jason Torres Const. Engineer Man Hrs	Cost	Chris Seifert Construction Admin. Man Hrs	Cost	James Bell Engineer Man Hrs	Cost	Ron Meadows Senior CADD Designer Man Hrs	Cost	Construction Project Coordinator Man Hrs	Cost			
1	Project Management	2	\$235.00	8	\$185.00	32	\$107.00		\$125.00		\$120.00		\$120.00		\$ 90.00		\$142.00	2	\$250.00	8	\$180.00	8	\$195.00		\$150.00		\$125.00		\$115.00		\$115.00	\$ 8,674.00	60	\$147.90	
2	Final Construction Document Modification	2	\$235.00	12	\$185.00	40	\$107.00		\$125.00		\$120.00		\$120.00		\$ 90.00		\$142.00	2	\$250.00	8	\$180.00	20	\$195.00	16	\$150.00	20	\$125.00	40	\$115.00	4	\$115.00	\$ 22,770.00	164	\$138.84	
3	Permitting		\$235.00	4	\$185.00	8	\$107.00		\$125.00		\$120.00		\$120.00		\$ 90.00		\$142.00	2	\$250.00	16	\$180.00	4	\$195.00		\$150.00	16	\$125.00	4	\$115.00		\$115.00	\$ 8,216.00	54	\$152.15	
4	Construction Contract Administration																																		
	Contract Administration	20	\$235.00	41	\$185.00	82	\$107.00		\$125.00		\$120.00		\$120.00		\$ 90.00		\$142.00		\$250.00		\$180.00		\$195.00	32	\$150.00		\$125.00		\$115.00	8	\$115.00	\$ 26,779.00	183	\$146.33	
	Submittals (45)		\$235.00	45	\$185.00	90	\$107.00		\$125.00		\$120.00		\$120.00		\$ 90.00		\$142.00	2	\$250.00	24	\$180.00	24	\$195.00	90	\$150.00	60	\$125.00		\$115.00	60	\$115.00	\$ 55,355.00	395	\$140.14	
	Request for Information (20)	6	\$235.00	24	\$185.00	40	\$107.00	20	\$125.00		\$120.00		\$120.00		\$ 90.00		\$142.00	2	\$250.00	12	\$180.00	8	\$195.00	40	\$150.00	20	\$125.00	6	\$115.00	20	\$115.00	\$ 28,340.00	198	\$143.13	
	Change Orders (6)	4	\$235.00	12	\$185.00	12	\$107.00		\$125.00		\$120.00		\$120.00		\$ 90.00		\$142.00	2	\$250.00	8	\$180.00	8	\$195.00	24	\$150.00	24	\$125.00	8	\$115.00	6	\$115.00	\$ 16,154.00	108	\$149.57	
	Construction Field Orders (30)		\$235.00	12	\$185.00	30	\$107.00	30	\$125.00		\$120.00		\$120.00		\$ 90.00		\$142.00	2	\$250.00	12	\$180.00	8	\$195.00	36	\$150.00	20	\$125.00	4	\$115.00	32	\$115.00	\$ 25,440.00	166	\$136.77	
	Proposed Contract Modifications (10)	4	\$235.00	10	\$185.00	20	\$107.00		\$125.00		\$120.00		\$120.00		\$ 90.00		\$142.00	1	\$250.00	6	\$180.00	6	\$195.00	32	\$150.00		\$125.00	8	\$115.00	16	\$115.00	\$ 14,980.00	103	\$145.53	
	Notice of Non-compliance (4)	2	\$235.00	6	\$185.00	8	\$107.00		\$125.00		\$120.00		\$120.00		\$ 90.00		\$142.00	2	\$250.00	6	\$180.00		\$195.00	12	\$150.00		\$125.00		\$115.00	6	\$115.00	\$ 6,506.00	42	\$154.90	
	Pay Applications (20)		\$235.00	40	\$185.00	40	\$107.00	80	\$125.00		\$120.00		\$120.00		\$ 90.00		\$142.00		\$250.00		\$180.00		\$195.00	40	\$150.00		\$125.00		\$115.00	20	\$115.00	\$ 29,980.00	220	\$136.27	
	Meetings and Site Visits																																		
	Pre-Construction Meeting	8	\$235.00	8	\$185.00	8	\$107.00	8	\$125.00		\$120.00		\$120.00		\$ 90.00		\$142.00	4	\$250.00	8	\$180.00	8	\$195.00	8	\$150.00		\$125.00		\$115.00	8	\$115.00	\$ 11,336.00	68	\$166.71	
	Monthly Meetings (18)	36	\$235.00	36	\$185.00	36	\$107.00	36	\$125.00		\$120.00		\$120.00		\$ 90.00		\$142.00	4	\$250.00	36	\$180.00	24	\$195.00	36	\$150.00	24	\$125.00		\$115.00	36	\$115.00	\$ 48,172.00	304	\$158.46	
5	Limited Construction Observation																																		
	Limited Construction Observation		\$235.00	82	\$185.00	82	\$107.00	200	\$125.00		\$120.00		\$120.00		\$ 90.00		\$142.00		\$250.00		\$180.00		\$195.00		\$150.00		\$125.00		\$115.00		\$115.00	\$ 48,944.00	364	\$134.46	
6	Construction Contract Closeout																																		
	Substantial & Final Completion Walkthroughs		\$235.00	16	\$185.00	16	\$107.00	16	\$125.00		\$120.00		\$120.00		\$ 90.00		\$142.00		\$250.00	8	\$180.00	18	\$195.00	24	\$150.00		\$125.00		\$115.00	8	\$115.00	\$ 16,142.00	106	\$152.28	
	Record Drawings		\$235.00	8	\$185.00	40	\$107.00	16	\$125.00		\$120.00		\$120.00		\$ 90.00		\$142.00	1	\$250.00	1	\$180.00	4	\$195.00	20	\$150.00		\$125.00	40	\$115.00		\$115.00	\$ 16,570.00	130	\$127.46	
	FDEP Certifications of Completion (4)		\$235.00	2	\$185.00	2	\$107.00		\$125.00		\$120.00		\$120.00		\$ 90.00		\$142.00		\$250.00	2	\$180.00	20	\$195.00	32	\$150.00	8	\$125.00	32	\$115.00	2	\$115.00	\$ 14,554.00	100	\$145.54	
7	Design Project Management	36	\$235.00	60	\$185.00	160	\$107.00		\$125.00		\$120.00		\$120.00		\$ 90.00		\$142.00	60	\$250.00	160	\$180.00	20	\$195.00	0	\$150.00	20	\$125.00	8	\$115.00	0	\$115.00	\$ 87,800.00	524	\$167.56	
8	Data Collection & Field Review																																		
8.1	Preliminary Schematic Design Documents	4	\$235.00	8	\$185.00	12	\$107.00		\$125.00		\$120.00		\$120.00		\$ 90.00		\$142.00	1	\$250.00	2	\$180.00	16	\$180.00	4	\$195.00	16	\$150.00		\$125.00		\$115.00	\$ 10,374.00	63	\$164.67	
8.2	Design Survey		\$235.00	24	\$185.00	40	\$107.00		\$125.00		\$120.00	140	\$120.00	188	\$ 90.00	480	\$142.00	4	\$250.00	8	\$180.00	8	\$180.00	12	\$195.00		\$150.00	32	\$125.00	24	\$115.00	\$ 123,580.00	960	\$128.73	
8.3	Geotechnical Engineering Coordination		\$235.00	8	\$185.00		\$107.00		\$125.00		\$120.00		\$120.00		\$ 90.00		\$142.00	2	\$250.00	8	\$180.00	8	\$180.00	24	\$195.00		\$150.00		\$125.00	4	\$115.00	\$ 10,000.00	54	\$185.19	
8.4	Individual Lot Exhibit Surveys	20	\$235.00	120	\$185.00	640	\$107.00	180	\$125.00		\$120.00	180	\$120.00	320	\$ 90.00	700	\$142.00	2	\$250.00	4	\$180.00	4	\$180.00	8	\$195.00		\$150.00		\$125.00		\$115.00	\$ 271,180.00	2178	\$124.51	
9	Design, Construction Drawing, Permitting & Bid Docs																																		
9.1	30% Design Documents	12	\$235.00	16	\$185.00	24	\$107.00		\$125.00		\$120.00		\$120.00		\$ 90.00		\$142.00	40	\$250.00	120	\$180.00	280	\$195.00	8	\$150.00	400	\$125.00	400	\$115.00	20	\$115.00	\$ 194,048.00	1320	\$147.01	
	Update Model and Lift Station Sizing		\$235.00	8	\$185.00	8	\$107.00		\$125.00		\$120.00		\$120.00		\$ 90.00		\$142.00	8	\$250.00	24	\$180.00	48	\$195.00		\$150.00	60	\$125.00		\$115.00	4	\$115.00	\$ 25,976.00	160	\$162.35	
	Wildlife Study (including preliminary gopher tortoise burrow survey)	2	\$235.00	16	\$185.00	24	\$107.00		\$125.00	160	\$120.00		\$120.00		\$ 90.00		\$142.00		\$250.00		\$180.00		\$195.00		\$150.00		\$125.00		\$115.00		\$115.00	\$ 25,198.00	202	\$124.74	
9.2	60% Design Documents	16	\$235.00	16	\$185.00	24	\$107.00		\$125.00		\$120.00		\$120.00		\$ 90.00		\$142.00	40	\$250.00	100	\$180.00	240	\$195.00	8	\$150.00	400	\$125.00	360	\$115.00	40	\$115.00	\$ 181,288.00	1244	\$145.73	
	Individual Lot Exhibits	20	\$235.00	120	\$185.00	600	\$107.00		\$125.00		\$120.00		\$120.00		\$ 90.00		\$142.00		\$250.00		\$180.00	8	\$195.00		\$150.00	40	\$125.00		\$115.00						