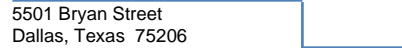


Risa Weinberger & Associates, Inc.

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November 26, 2023

Mr. David Lehfelddt, Director, Solid Waste Services
Mr. Natnaiel Woldesensbet, Engineer, Engineering Services
Via email

Subject: Cefe F. Valenzuela Landfill Compost Facility (MSW-2269) - Design, Bidding and Construction Services. **Project 20288, Phase II, Amendment 2**

Dear Mr. Lehfelddt and Mr. Woldesensbet:

Attached to this letter is a proposal submitted to me by Hanson Professional Services, Inc. (Hanson) to provide design, bidding and construction phase services (Phase 2) associated with the recently permitted composting facility on the Cefe F. Valenzuela Landfill. Also attached is Hanson's Preliminary Opinion of Probable Construction Cost.

As the prime contractor for this project, Risa Weinberger & Associates, Inc. (RWA) proposes the following Scope of Services and Compensation in addition to those described in the attached proposal.

Scope of Services

Project Management

- Prepare appropriate contract and budget addenda to reflect Phase 2 Services including design, bidding and construction phase services, plus Additional Services including topographic surveying and geotechnical QA services.
- Receive monthly invoices from Hanson with back-up information. Prepare monthly invoices and status reports to the City of Corpus Christi throughout a twelve-month project period.

Consultation

- Provide consultation as needed throughout the twelve-month project period, related to regulatory compliance associated with the landfill permit modification associated with the composting facility.

Non-technical Review of Construction Documents

- Provide non-technical review of Construction Documents (30%, 60%, 90%, 100%) provided to RWA by Hanson.

On-site Observation and Pre-opening Inspection

- Attend up to two on-site observations during the course of the twelve-month project period. Site visits may include operator training as requested by the City of Corpus Christi, which training may require additional manhours at additional cost to be authorized separately.

Compensation

Based on the tasks outlined above, the proposed fee for these services provided by RWA will be twelve- thousand dollars (\$12,000) for labor and direct expenses. This compensation is based on 60 manhours over a twelve-month period, including up to two, one-day site-visits.

Proposed total compensation for Phase 2 services as described above plus services as described in the attached proposal by Hanson is as follows.

Hanson Basic Services	\$283,009
Hanson Additional Services	\$395,700
RWA	\$ 12,000
Total Compensation	\$690,709

Thank you for the opportunity to continue working with you through completion of your new composting facility. We look forward to seeing it in operation soon. Please do not hesitate to contact me if you would like to discuss this proposal.

Sincerely,
Risa Weinberger & Associates, Inc.


Risa Weinberger, P.E.
President

CC: Philip Aldridge, Assistant Director of Solid Waste Services

November 20, 2023

Ms. Risa Weinberger, P.E.
Risa Weinberger & Associates, Inc.
5501 Bryan Street
Dallas, Texas 75206

Re: Cefe F. Valenzuela Landfill Compost Facility

Dear Ms. Weinberger:

Thank you for the opportunity to provide professional engineering services for the City of Corpus Christi (City) Compost Facility (Compost Facility) at the City's Cefe F. Valenzuela municipal solid waste landfill (Landfill). The following outlines Hanson Professional Services Inc.'s (Hanson's) proposal to complete this work, which will include design, bidding and construction phases.

The proposed Compost Facility is approximately 106 acres in size and will be located on the eastern portion of the Landfill permit boundary, north of the future disposal Unit 2. The Compost Facility will include the following operation areas:

- Lined active composting area
- Screening, curing and final product area
- Future bagging plant area
- Feedstock storage area
- Mixing/blending area
- Crushing pad
- Roadways and parking area, including covered storage for equipment
- Fueling station (diesel storage tank)
- Lined stormwater retention pond and ditches

This project will include lighting along with the necessary power requirements for the fueling station and a pump associated with the crushing pad. Hanson will employ a sub-consultant (Bath Group, Inc., Corpus Christi) for the electrical engineering design of these features.

Our staff is thoroughly familiar with the Landfill and the City of Corpus Christi's design standards and construction procurement process. Based on this understanding of the work, we propose to perform the following specific tasks:

Engineering Design and Assistance with Bidding

Engineering Letter Report (ELR)/30%

The ELR will be based upon the facility configuration as depicted in the Compost Facility permit modification, previously prepared by Risa Weinberger & Associates, Inc. and Hanson, and approved by TCEQ on September 1, 2023. The following is a brief description of each of the operation areas.

- The lined active composting area will include a 2-foot re-compacted clay liner with a minimum of 18" of protective cover soil that will serve as the windrow operating surface. It is anticipated that both the clay and protective cover soil will be available on-site. The permitted site layout designates approximately 40 acres for the lined composting area. Hanson will provide a design for the entire area, but it is our understanding that the City is only planning to construct 25 acres in the initial development, therefore the construction plans will reflect that configuration.
- The screening, curing and final product area will be constructed with an operating surface of 12" thick compacted select fill with a footprint of approximately 16 acres.
- The future bagging plant area will consist of a footprint of approximately 2.25 acres, be graded for future use, but otherwise left undeveloped.
- The feedstock storage area will be graded and constructed with an operating surface of compacted on-site soil with a footprint of approximately 9.4 acres.
- The mixing and blending area will be graded and constructed with an operating surface of compacted on-site soil with a footprint of approximately 0.75 acres.
- The crushing pad will be a sloped concrete surface for crushing certain feedstocks to release liquids that will flow to a trench drain where it will be collected in a buried storage tank. The crushing pad will have a footprint of approximately 21,000 square feet (s.f.). The storage tank will have an approximate capacity of 500 gallons. Liquid from the tank can be pumped into transport equipment and applied to the windrowed materials as needed.
- Roadways and parking areas will be surfaced with flexible base material. The parking area will also include approximately 40,000 s.f. of exposed surface and a 4000 s.f. covered storage area for heavy equipment. The cover for the storage area will be framed with structural steel, founded on concrete column footings, with steel sheet metal roofing and will be unenclosed. There will be a brick entrance to the facility located on CR 57 that will be similar to the landfill's main entrance on CR 20. The entrance will have a rolling aluminum gate for access control, similar in design to the existing operations area entrance.
- The design will include an un-covered a fueling station with an above-ground double-walled diesel tank. The fueling area will include a drip pad for containment of incidental operational spills and will include pumping equipment for high-volume diesel fuel delivery.
- Stormwater runoff from the active composting area will be collected via surface sheet flow across an existing pipeline easement to geomembrane-lined drainage channels and then directed to a geomembrane-lined stormwater retention pond. The drainage channels will consist of approximately 2,500 linear feet and the stormwater retention pond will have a footprint of approximately 6 acres.
- The design will include limited area lighting focusing on security (rather than operations) for the covered heavy equipment storage structure, the fueling station and the parking area.

No building structures other than the heavy equipment storage shed will be included. It is also assumed that the City will be responsible for the extension of power to the composting facility by Nueces Electric Co-op (NEC). If requested, Hanson can provide assistance in the form of NEC easement preparation and surveying through an MSA task order.

Hanson will prepare the ELR/30% design submittal and host a design workshop with the City to review the package. The package will include:

- A plan view layout of the proposed construction, including the proposed compost facility configuration as well as the components that will be a part of the project.
- A technical memo outlining construction work items for the bid package, approximate quantities and preliminary opinion of probable construction costs, and a description of additional requirements (e.g., TCEQ mandated construction inspection/quality assurance testing, regulatory submittals)
- A proposed project schedule.

60% Construction Documents Package

Based on the comments received from the City on the ELR/30%, Hanson will prepare draft construction documents representing approximately 60% design completion and will meet with the City in a design review workshop. The package will include:

- Construction drawings, including plans, sections, and details, for the construction components identified in the ELR. Drawings will include the record drawing number as provided by the City.
- Construction specifications for construction components identified in the schematic design.
- Contract documents, including instructions to bidders, agreements, bonds, general conditions and special conditions, using City standard forms with information required to render those forms suitable for the project.

All documents will be prepared in City standard format and drawings will be developed in electronic format (AutoCAD Civil 3D®, updated through 2017 or higher). Final drawings will be archived from AutoCAD Civil 3D as Adobe Acrobat Portable Document Format (.pdf) set up as full size 22" x 34" sheets printable at a standard engineering scale and capable of being reproduced on half size 11" x 17" sheets. Contract documents and specifications will be prepared in Microsoft Word and will be archived as .pdf.

90% Construction Documents Package

Based on the comments received from the City on the 60% Construction Documents Package, Hanson will prepare a 90% design submittal package of construction documents and will meet with the City in a design review workshop to review the package. The package will include updated versions of the documents furnished for the 60% submittal along with an opinion of probable construction cost.

100% Construction Documents Package

Following the incorporation of any comments from the 90% construction documents review, Hanson will prepare and deliver to the City Engineer the 100% design submittal package of construction documents and will meet with the City in a design review workshop to review the package. The package will include updated versions of the documents furnished in the 90% submittal along with an opinion of probable construction cost.

Final/Signed & Sealed Construction Documents Package

Following the incorporation of any comments from the 100% construction documents review, Hanson will prepare and deliver to the City Engineer final reproducible drawings, specifications and contract documents. This package will include:

- An electronic version of all documents in PDF format on USB flash drive or on other comparable electronic media acceptable to the City.
- Three (3) hard copy sets of 22" x 34" full size drawings.
- Three (3) hard copy sets of 11" x 17" half-size drawings.
- Three (3) hard copy sets of contract documents and specifications.
- One (1) hard copy of the opinion of probable construction cost.

Assistance with Bidding

The City will utilize the CivCastUSA website for managing the bidding process and will be responsible for uploading documents, managing the project on the website, and conducting the public bidding process. Hanson will provide the City with the following services during the bidding phase:

- Attend the pre-bid meeting including a site visit to the project site.
- Evaluate questions from bidders and prepare for the City Engineer written answers to questions or requests for additional information.
- Prepare written addenda for the City Engineer as warranted for any additional information or bid document revisions to be conveyed to potential bidders.
- Review bids received, including a review of each bid to ensure it contained the minimum information to be considered responsive, and prepare a tabulation of bids.
- Prepare a written evaluation of the bids and recommendation for award.

Support Services

Pre-Construction Topographic Surveying

Hanson will perform a limited pre-construction topographic survey of the proposed Compost Facility construction area to obtain information on existing conditions necessary for design, including estimation of excavation and/or fill volumes. This will include the area where the lined retention pond will be located. This survey will be performed using conventional surveying equipment, based on the survey datum provided in the TCEQ permit documents. There will be no separate deliverable of the pre-construction topographic survey; the results will be incorporated into the design and construction documents.

Construction Administration and Quality Assurance

Construction Administration

Hanson will provide the following services during the construction phase of this project:

- The construction administration services outlined below are based on a construction contract term of six (6) months from Notice to Proceed to substantial completion.
- Attend and assist the City with the pre-construction conference.
- Review up to ten (10) material and other submittals customarily provided by the contractor or required by the contract documents during the course of construction. Submittals requiring more than two (2) reviews by Hanson will be performed on a time and materials basis, noted separately on Hanson's billing to the City. The contract documents will specify that the contractor reimburse the City for the cost of these additional reviews. Hanson's review of the contractor's submittals shall only be for the purpose of checking for general conformance with the design concept expressed in the contract documents. Hanson shall not be responsible for any deviations between the shop drawings, the contract documents, and field conditions.
- Provide interpretations and clarifications of the plans and specifications for the contractor and authorize minor changes which do not affect the contractor's price or the duration of

the construction contract and are not contrary to the general interest of the City under the contract.

- Review and evaluate up to three (2) change order proposals that may be necessary during the progress of the work including a recommendation to accept or reject.
- Consult with the City and exchange oral status reports on a weekly basis during construction.
- Make weekly visits to the project site to observe the general progress and quality of the work, and determine, in general, if the work is being done in accordance with the contract documents and in accordance with the quantities of work represented in current contractor requests for payment. The site visits will include a duration of up to four (4) hours per week and will be conducted through the six (6) month construction schedule. Weekly site visits will not constitute or be confused with resident project representative services or continuous monitoring of the progress of construction. Hanson sub-consultants may also make up to three (3) site visits during construction. Additional on-site observation will be provided by our subcontractor, Modern Technology/Modern Environment (MTME) of Corpus Christi, Texas as a portion of the Geotechnical Quality Assurance (QA) services as described below.
- Conduct an inspection in anticipation of substantial completion and prepare a punch list of items for correction, repair or installation by the contractor prior to final inspection.
- Conduct a final inspection with the City and contractor, to include an orientation by the contractor to familiarize City personnel with the mechanical and control systems.
- On the basis of contractor's field set of "red-line" drawings, Hanson's field observations, approved change orders, and documented changes reported by the City's inspector(s), Hanson will prepare a set of record drawings to be provided in both electronic format (as described for the 60% submittal) and in one (1) hard copy.
- Hanson is not responsible for the contractor's means and methods of construction.

Post-Construction Topographic Surveying

Hanson will perform post-construction topographic surveys to document the horizontal and vertical placement of construction elements required by TCEQ regulations, the facility's permit and the construction QA documents. These will include surveys of the subgrade, the compacted clay liner, protective cover layer over the liner, and the geomembrane liner panel seams at the retention pond. We will also coordinate with the contractor's surveyor to confirm location and information for the Landfill's existing survey control system. This proposal is based on no more than two (2) separate mobilizations of one (1) day each to complete these post-construction topographic surveys.

Geotechnical QA Services (SLER & GLER)

TCEQ regulations and the facility permit require that during the liner construction, the City provides geotechnical QA services to confirm that the composting area liner materials (clay and protective soil) meet the required material properties and that the construction and installation procedures comply with the requirements identified in the permit and QA documents. Additionally, it is required that a qualified technician or engineer be present on site at all times when clay liner construction or pond and ditch liner installation is occurring. This on-site observation will be supplemented with the field and laboratory testing program outlined in the permit and QA documents. Properly credentialed personnel and analytical laboratories will be used for all testing, as outlined in the permit and the QA documents. The results of all field and laboratory testing will be included in the appropriate reports submitted to the TCEQ.

MTME will provide construction Quality Assurance (QA) services and preparation of the documentation for TCEQ submittal. MTME staff will be on site to observe and document construction, as well as coordinate sampling and field and laboratory testing of construction materials. As the professional of record, MTME will prepare the Soil Liner Evaluation Report (SLER), and the Geomembrane Liner Evaluation Report (GLER) for submittal to TCEQ. Because the QA effort is greatly influenced by the schedule and productivity of the contractor, the fee for geotechnical QA services is recognized as an estimate and billing will be on a time and materials (T&M) basis for actual hours worked plus reimbursable costs (materials testing, shipping, vehicle and equipment usage, etc.). The fee estimate for the QA services is based on a construction contract term of six (6) months from Notice to Proceed to substantial completion, working twelve (12) hours per day, seven (7) days per week.

Schedule

This schedule was developed in consultation with City staff and includes a timeline as presented below.

Project Schedule	
Design Start	January 1, 2024
Topographic Design Survey	January 2024
Draft ELR Submittal	January 29, 2024
City Draft ELR Review Complete	February 9, 2024
Final ELR Submittal	February 26, 2024
60% Design Submittal	March 11, 2024
City 60% Design Review Complete	March 22, 2024
90% Design Review Submittal	April 8, 2024
City 90% Design Review Complete	April 19, 2024
100% Pre-NOA Submittal	May 6, 2024
Final Sealed Bid Package	May 20 2024
Advertise For Bids	May 2024
Pre-bid Conference	June 2024
Receive Bids	June 2024
Contract Award	July 2024
Begin Construction	August 2024
Complete Construction	January 2025

Compensation

Based on the tasks outlined above, the proposed fee for these services will be as follows:

Project Component	Fee
Basic Services	
Design Phase	\$198,425.00
Bid Phase	\$13,016.00
Construction Administration Phase	\$71,568.00
Subtotal Basic Services	\$283,009.00
Additional Services	
Topographic Surveying	\$42,357.00
Geotechnical QA Services (Time and Materials Estimate)	\$353,343.00
Subtotal Additional Services	\$395,700.00

Ms. Risa Weinberger, P.E.
Risa Weinberger & Associations, Inc.
November 20, 2023

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Summary of Fees	
Basic Services Fees	\$283,009.00
Additional Services Fees	\$385,593.00
Total Authorized Fees	\$678,709.00

We appreciate the opportunity to submit this proposal to you. We look forward to working with you on this important project. If you have questions or need additional information, please do not hesitate to contact us.

Sincerely,

HANSON PROFESSIONAL SERVICES INC.



Grant A. Jackson, P.E., P.Eng.
Chief Production Officer/Vice President

cc: Philip Aldridge, Assistant Director of Solid Waste Services

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