Rogers C. Anderson
Williamson County Mayor

Leslie Mitchell, NIGP-CPP, CPPO, CPPB
Purchasing Director

WILLIAMSON COUNTY GOVERNMENT

October 7, 2025

To Whom It May Concern:

Williamson County Government is accepting bids for one new 133,000-gallon leachate collection tank for the Williamson County Landfill, 5750 Pinewood Road, Franklin, TN 37064. Minimum specifications are enclosed. Please note any exceptions.

It is not the intent of Williamson County to favor one vendor; however, we do, from time to time, have to rely on vendors' help in writing specifications. We will accept all bids with exceptions noted, and all bids will be given equal consideration.

Bids are due by November 18, 2025, at 2:00 p.m. Bids shall be submitted in a sealed envelope to the County Mayor's Office, 1320 West Main Street, Suite 125, Franklin, TN 37064. Each envelope shall be plainly marked**: Solid Waste Leachate Tank, November 18, 2025, 2:00 p.m. Envelope must also include bidder's company name. IF THE SEALED PACKAGE IS NOT LABELED EXACTLY AS SPECIFIED ABOVE, THE BID WILL NOT BE OPENED.**

Williamson County reserves the right to reject any and/or all bids, to waive technicalities or informalities, and to accept any proposal deemed to be in the best interest of Williamson County. **No bid shall be valid unless signed.** No bid shall be accepted by FAX machine.

Enclosed are an *Ethical Standards Affidavit, Iran Divestment Act Affidavit, Fair Employment Affidavit, Immigration Attestation and Immigration Compliance Affidavit,* and *Business Tax and License Affidavit*. Please complete these documents and return them with your bid.

If you have any questions, please e-mail leslie.mitchell@williamsoncounty-tn.gov. All questions must be submitted in writing by 4:30 p.m. CST on November 12, 2025. No addenda will be issued within 48 hours of the bid opening date and time.

Sincerely,

Leslie Mitchell, NIGP-CPP, CPPO, CPPB
Williamson County Purchasing Director

SECTION 132000 – LEACHATE STORAGE TANK

PART 1 GENERAL

1.1 Scope of Work

A. Tank Supplier to furnish a single, glass fused to steel (porcelain enamel) coated, bolted-steel liquid storage tank, including tank structure with steel floor, roof vent, side access door, and tank appurtenances described herein. The tank shall be designed to store leachate.

B. This specification describes a leachate storage tank.

C. All equipment designated in this specification is the responsibility of the Tank Supplier.

1.2 Qualifications of Tank Supplier

A. The Tank Supplier shall provide a new tank structure as supplied from AQUASTORE® STORAGE TANKS (or equal manufacturer specializing in the design, fabrication, and erection of factory applied glass-fused-to-steel, bolt together tanks). The tank manufacturer selected shall employ a staff of full time design engineers, own and operate its steel fabrication facilities and glass coat the tank all at one plant location. The tank supplier shall have manufactured at least ten (10) tanks of similar size or greater.

1.3 Submittal Drawings and Specifications

A. The Tank Supplier is required to furnish shop drawings to the project ENGINEER (CEC). A complete set of structural calculations shall be provided for the tank structure. All such submissions shall be stamped by a Licensed Professional Engineer licensed in the state of Tennessee.

B. Tank Supplier to provide standard published warranty and shall be included with submittal information. Warranty to include 1-year materials and workmanship.

C. Tank Supplier shall provide a standard Operation and Maintenance Manual for the tank.

PART 2 DESIGN CRITERIA

2.1 Tank Size

A. Glass-fused to steel tank with dome roof and steel floor. The factory coated, glass-fused-to-steel, bolt together tank shall have a nominal diameter of 61.5 feet, with a nominal sidewall height (to roof eave) of 6.0 feet with overall tank height of 6.9 ft.

2.2 Tank Capacity

A. Tank capacity shall be 133,816 gallons at the high water level of 6 ft.

2.3 Tank Design Standards

A. The materials, design, fabrication, and erection of the bolt together tank shall conform to the AISC Standard, latest revision.

B. The tank coating system shall conform solely to Section 12.4 of ANSI/AWWA D103, 2009. NOTE: Baked-on epoxy painted or galvanized bolt-together tanks are not considered equal.

2.4 Design Loads

A. Minimum Design Criteria

1. Specific Gravity: 1.021
2. Wind Design: ASCE 7-10 at 120 mph
3. Roof Snow Load 25 psf

B. Structural Design Code: AISC

C. Seismic Design Code: IBC 2012/2015.

PART 3 MATERIALS SPECIFICATIONS

3.1 Plates and Sheets

A. Plates and sheets used in the construction of the tank shell, tank floor, and tank roof, shall comply with the minimum standards of AISC, latest edition.

3.2 Rolled Structural Shapes

A. Material shall conform to minimum standards of ASTM A36 or ASTM A992.

3.3 Horizontal Wind Stiffeners

A. Design requirements for intermediate horizontal wind stiffeners shall be of the "web truss" design with extended tail to create multiple layers of stiffener, permitting wind loads to distribute around the tank.

B. Web truss stiffeners shall be of steel with hot dipped galvanized coating or epoxy coated the same color as the storage tank.

3.4 Bolt Fasteners

A. Bolts used in tank lap joints shall be 1/2"-13 UNC-2A rolled thread, and shall meet the minimum requirements of AWWA D103, Section 4.2.

B. Bolt Finish - Zinc, mechanically deposited for a coating 2.0 Mils min under bolt head, on shank and threads.

C. Bolt Head Encapsulation shall consist of high impact polypropylene copolymer encapsulation of entire bolt head up to the splines on the shank.

3.5 Sealants

A. The lap joint sealant shall be a one component, moisture cured, polyurethane compound. The sealant shall be suitable for contact with the liquid contents of the tank.

PART 4 GLASS COATING SPECIFICATION

4.1 Surface Preparation

A. Following the decoiling and shearing process, sheets shall be steel grit blasted on both sides to the equivalent of SSPC 10 (Near – White Blast Cleaning). Sand blasting and chemical pickling of steel sheets is not acceptable.

B. The surface anchor pattern shall be not less than 1.0 mil (0.001 inch).

C. These sheets shall be evenly oiled on both sides to protect them from corrosion during fabrication.

4.2 Preparation of Sheet Edges

A. After initial sheet preparation, all full height vertical wall sheets and all rectangular shaped floor sheets shall be machined to create a beveled edge. Sheet edges shall be rounded in profile per Technical Manual PEI-101 to enable the same glass coating to

be applied to all four sides of the sheet and ensure full encapsulation of the sheet edges with a minimum thickness of 5 mils (127 microns). Mastic, zinc primer, or sealer shall not be acceptable as the only means to protect sheet edges from corrosion.

4.3 Cleaning

A. After fabrication and prior to application of the coating system, all sheets shall be thoroughly cleaned by a caustic wash and hot rinse process followed immediately by hot air drying.

B. Inspection of the sheets shall be made for traces of foreign matter, soil particles, grease or rust. Any such sheets shall be recleaned or grit blasted to an acceptable level of quality.

4.4 Coating

A. A base coat of catalytic nickel oxide to be electrostatically applied to both sides of the sheet.

B. A second coat to both sides of the sheets, of milled cobalt blue glass, shall be applied.

C. A third coat of glass shall be applied to all interior wetted surfaces which must be titanium dioxide reinforced mixture. The specified coating shall be Aquastore Vitrium™ or equal.

D. The sheets shall then be fired at a minimum temperature of 1500°F in strict accordance with the manufacturer's ISO 9001 quality process control procedures, including firing time, furnace humidity, temperature control, etc.

E. The interior coating process must be a 3 coat and 1 fire process. The interior color shall be white. The exterior color shall be cobalt blue.

F. The dry film interior coating thickness shall be 10.0 – 18.0 mils (0.010 to 0.018 inches) minimum.

G. The dry film exterior coating thickness shall be 7.0 – 15.0 mils (0.007 to 0.015 inches) minimum.

H. The same glass coating as applied to the exterior sheet surfaces shall be applied to the exposed edges.

4.5 Factory Inspection

A. The manufacturer's quality system shall be ISO 9001 certified.

4.6 Chemical Resistance of Glass Coating

A. Every batch of component frits shall be individually tested in accordance with PEI Test T-21 (Citric Acid at Room Temperature)

B. Holiday Testing

1. A dry volt test using a minimum of 1100 volts is required.
2. Frequency of the test shall be every sheet. Any sheet registering a discontinuity shall be rejected.
3. All inside sheet surfaces shall be holiday free.

C. Measurement of Glass Thickness

1. Glass thickness shall be measured using an electronic dry film thickness gauge (magnetic induction type). The thickness gauge shall have a valid calibration record.
2. Frequency of the test shall be every tenth sheet. The thickness of the glass shall be between 10 and 18 mils.

D. Measurement of Color

1. The exterior color of the sheets shall be measured using a colorimeter. The colorimeter shall have a valid calibration record.
2. Frequency of the test shall be every tenth sheet.

E. Impact Adherence Test

1. The adherence of the glass coating to the steel shall be tested in accordance with ASTM B916-01. Any sheet that has poor adherence shall be rejected.
2. Frequency of this test shall be one sheet per gauge lot run minimum.

F. Fishscale Test

1. The glass coating shall be tested for fishscale by placing the sheet in an oven at 400 degrees F for one hour. The sheet will then be examined for signs of fishscale. Any sheet exhibiting fishscale shall be rejected and all sheets from that gauge lot will be similarly tested.
2. Frequency of this test shall be one sheet per gauge lot run minimum.

G. Packaging

1. All sheets that pass Factory Inspection and Quality Control checks shall be protected from damage prior to packing for shipment.
2. Heavy paper or plastic foam sheets shall be placed between each panel to eliminate sheet-to-sheet abrasion during shipment.
3. Individual stacks of panels will be wrapped in heavy mil black plastic and steel banded to special wood pallets built to the roll radius of the tank panels. This procedure eliminates contact or movement of finished panels during shipment.
4. Shipment from the factory will be by truck, hauling the tank components exclusively.

PART 5 FIELD ERECTION (NOT USED)

PART 6 APPURTENANCES

6.1 Access Door

A. One 30" bottom access door shall be provided and installed as shown on the drawings with the bid documents in accordance with AWWA D103.

6.2 Roof Vent

A. A properly sized vent assembly in accordance with AWWA D103 shall be furnished and installed above the maximum liquid level of sufficient capacity so that at maximum design rate of fill or withdrawal, the resulting interior pressure or vacuum will not exceed 0.5" water column.

B. The overflow pipe shall not be considered to be a tank vent.

C. The vent shall be constructed of aluminum such that the hood can be unbolted and used as a secondary roof access.

6.3 Outside Tank Ladder and Exterior Visual Liquid Level Gauge

A. An outside tank ladder shall be furnished and installed as shown on the bid drawings.

B. Ladders shall be fabricated of aluminum and utilize grooved, skid-resistant rungs.

C. Install exterior visual liquid level gauge on exterior of tank in location approved by engineer.

6.4 Identification Plate

A. A manufacturer's nameplate shall list the tank serial number, tank diameter and height, and maximum design capacity. The nameplate shall be affixed to the tank exterior sidewall at a location approximately five (5) feet from grade elevation in a position of unobstructed view.

6.5 Cathodic Protection

A. The Manufacturer will provide a cathodic protection system consisting of sacrificial anodes which provide corrosion protection for the portions of the structure immersed in liquid.

B. Electrical continuity between all tank sidewall panels shall be the responsibility of the tank manufacturer.

C. The design life shall be calculated at 10 years. The cathodic protection system shall be designed for protection of uncoated steel surfaces in the product zone.

D. The specific conductivity of the leachate is 2,500 – 5,000 uS/cm (microSiemens per cm). The cathodic protection system shall be provided for this type of liquid.

6.6 Other

A. Effluent flanged connection (for interconnecting pipeline with other tanks as shown on the bid drawings)

B. Overflow pipe as shown on the bid drawings

C. Flanged drain connection (blind flange) as shown on the bid drawings

D. Visual level indicator as detailed in Section 6.3.

E. All tank nozzles shall be 316SS with 150# flanges. Wetted flanges shall be 316SS. Non-wetted flanges shall be 316SS.

PART 7 FIELD TESTING (NOT USED)

PART 8 TANK MANUFACTURER'S WARRANTY

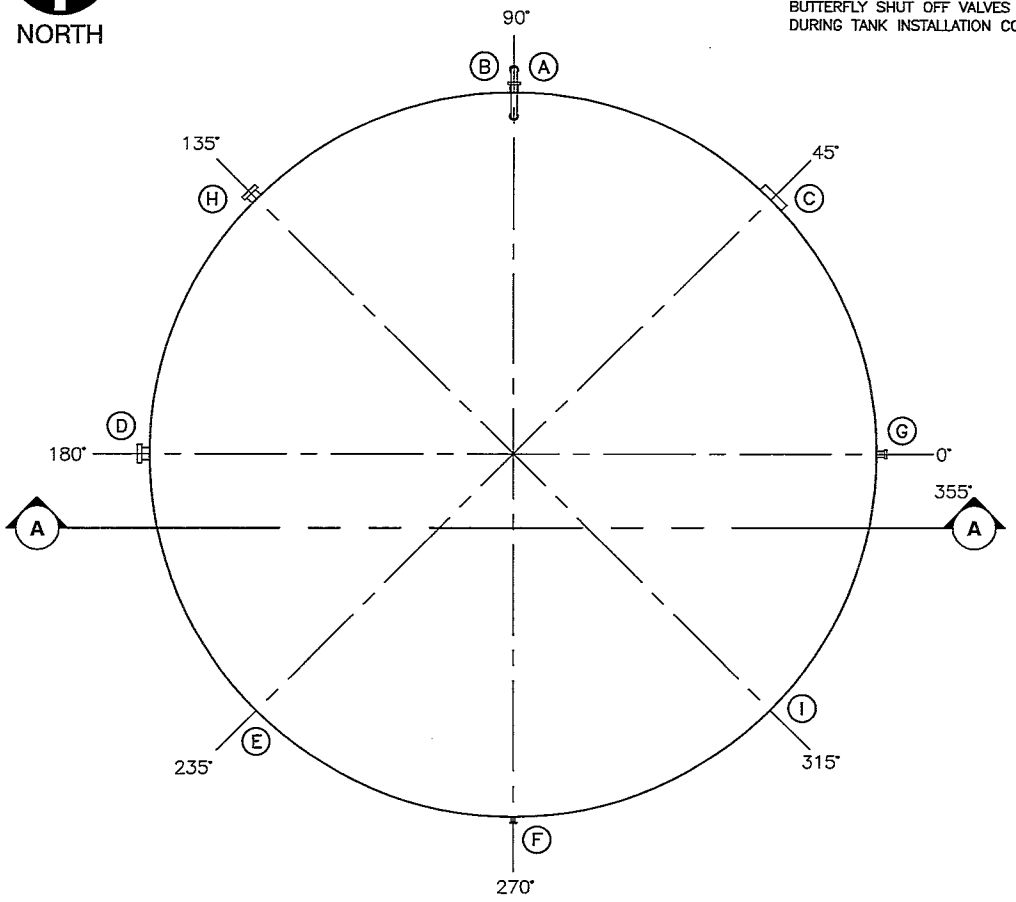
A. The tank manufacturer shall warrant the liquid storage tank shall be free from any defect in material or workmanship, under normal and proper use, maintenance and operation, during the period expiring on the earlier of (1) one year after liquid is first introduced into the tank.

END OF SECTION 132000

NORTH

NOTES:

ALL STUBOUT CONNECTIONS TO BE EQUIPPED WITH BUTTERFLY SHUT OFF VALVES (TO BE INSTALLED DURING TANK INSTALLATION CONTRACT.)



TOP VIEW

NOZZLE SCHEDULE				
MARK	REQUIRED	SIZE	TYPE	REMARKS
A	1	8"	FLANGED	STUB–OUT [1]
B	1	6"		OVERFLOW PIPE
C	1	30"	N/A	MANWAY
D	1	12"	FLANGED	STUB–OUT [2]
E	1	N/A	N/A	ACCESS LADDER
F	1	4"	FLANGED	PUMP TRUCK [3]
G	1	12"	FLANGED	INLET [4]
H	1	12"	FLANGED	STUB–OUT [5]
I	1	GAUGE	N/A	LEVEL GAUGE

[1] FOR FUTURE CONNECTION TO DUAL CONTAINED BYPASS LINE AROUND EXISTING 1st TANK, I.E. 6" FROM TANK BOTTOM.

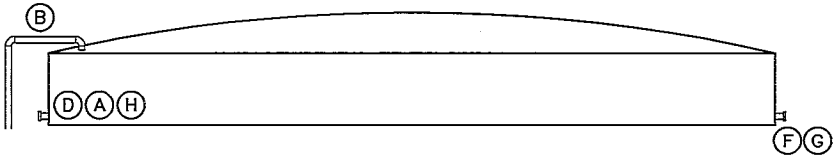
[2] FOR 3rd FUTURE TANK CONNECTION, I.E. 6" FROM TANK BOTTOM.

[3] 4 INCH HOSE WITH 2 INCH QUICK CONNECT COUPLING FOR EVACUATING LEACHATE FROM TANK VIA PUMP TRUCK, I.E. 6" FROM TANK BOTTOM.

[4] CONNECTION TO EXISTING TANK I.E. 6 INCHES FROM TANK BOTTOM.

[5] SECONDARY FUTURE CONNECTION TO FUTURE 3rd TANK I.E. 6 INCHES FROM TANK BOTTOM.

[6] "N/A" = NOT APPLICABLE.



SECTION A-A

SCALE IN FEET

0 10 20

NOTES:

1. SOME ITEMS HAVE BEEN ROTATED AND/OR OMITTED IN SECTION VIEW FOR CLARITY.

Civil & Environmental Consultants, Inc.
117 Seaboard Lane
Suite E-100
Franklin, TN 37067
Ph: 615.333.7797
www.cecinc.com

WILLIAMSON COUNTY CLASS III LANDFILL
2nd WEST LEACHATE STORAGE TANK
NOZZLE SCHEDULE
WILLIAMSON COUNTY, TENNESSEE

NOZZLE LAYOUT

DRAWN BY:	KLU	CHECKED BY:	KLC	APPROVED BY:	*KBW	FIGURE NO.:	1
DATE:	SEPTEMBER 2025	DWG SCALE:	AS SHOWN	PROJECT NO:	322-453		

BID SHEET

Williamson County Solid Waste
133,000 Gallon Leachate Tank

Must include delivery to Williamson County Solid Waste, 5750 Pinewood Road, Franklin, TN 37064.

Total Bid $_____

Estimated Delivery _____

Company Name_____

Physical Address_____

_____

Remittance Address_____

Authorized Signature_____

Printed Name_____

Phone_____

Email Address_____

Date_____

Ethical Standard Affidavit.

State of Tennessee **County of Williamson County**

Ethical Standard Affidavit. After first being duly sworn according to law, the undersigned ("Affiant") states that he/she has the legal authority to swear to this on behalf of _____. ("Contractor") that no part of any other governmental monies provided for the services or products contemplated in this Agreement which was received from the State of Tennessee and/or Williamson County shall be paid directly to an employee or official of the State of Tennessee or Williamson County as wages, compensation, or gifts in exchange for acting as an officer, agent, employee, subcontractor, or consultant to the County or the Contractor in connection with any work contemplated or performed relative to this Agreement. Affiant and Contractor further swears that no federally, state, or county appropriated funds have been paid or will be paid, by or on behalf of the Contractor, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, any employee of the State of Tennessee, or employee of Williamson County in connection with the awarding of any federal, state, or county contract, the making or awarding of any government grant, the making of any government loan, and entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any federal, state or county contract, grant, loan, or cooperative agreement.

Affiant

By: _____

Title: _____

Witness: _____

Date:_____

CERTIFICATION OF COMPLIANCE WITH THE IRAN DIVESTMENT ACT

Effective July 1, 2016, this form must be submitted for any contract that is subject to the Iran Divestment Act, Tenn. Code Ann. § 12-12-101, et seq., ("Act"). This form must be submitted with any bid or proposal regardless of where the principal place of business is located.

Pursuant to the Act, this certification must be completed by any corporation, general partnership, limited partnership, limited liability partnership, joint venture, nonprofit organization, or other business organization that is contracting with a political subdivision of the State of Tennessee.

Certification Requirements.

No state agency or local government shall enter into any contract subject to the Act, or amend or renew any such contract with any bidder/contractor who is found ineligible under the Act.

Complete all sections of this certification and sign and date it, under oath, in the presence of a Notary Public or a person authorized to take an oath in another state.

CERTIFICATION:

I, the undersigned, certify that by submission of this bid, each bidder and each person signing on behalf of any Respondent certifies, and in the case of a joint bid or contract each party thereto certifies, as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to Tenn. Code Ann. § 12-12-106.

Respondent represents it has the full power, knowledge, and authority to make this Certification and that the signatory signing this Certification on behalf of bidder/contractor has been duly authorized to do so on behalf of the bidder/contractor.

Sworn as true to the best of my knowledge and belief, subject to the penalties of false statement.

_____

Printed Respondent Name Printed Name of Authorized Official

_____

Signature of Authorized Official

Witness: _____

Date:_____

FAIR EMPLOYMENT PRACTICES AFFIDAVIT

State of _____ **County of** _____

Fair Employment Practices Affidavit: After first being duly sworn according to law, the undersigned (Affiant) states that he/she is the _____ (Offeror) and that by its employment policy, standards, and practices the Offeror does not subscribe to any personnel policy which permits or allows for the promotion, demotion, employment, dismissal, or laying off of any individual due to his/her race, creed, color, national origin, age, or sex, and that the Offeror is not in violation of and will not violate any applicable laws concerning the employment of individuals with disabilities.

And Further Affiant sayeth not:

By: _____ Title: _____

Address: _____

_____

Business Tax and License Affidavit

Business Tax and License Affidavit. The undersigned, ("Affiant"), states that he/she has the legal authority to swear to this on behalf of _____, ("Contractor"); that Contractor is not in any manner in violation of *Tennessee Code Annotated, Section, 5-14-108(l)* which provides that "(n)o purchase shall be made or purchase order or contract of purchase issued for tangible personal property or services by county officials or employees, acting in their official capacity, from any firm or individual whose business tax or license is delinquent." Affiant affirms and warrants that Contractor's licenses are currently valid and all business taxes have been paid and are current as of the date of this affidavit. Contractor is licensed and pays business taxes in _____ (County), Tennessee.

Affiant

By: _____

Title:_____

Date:_____

Witness: _____

Date:_____

IMMIGRATION ATTESTATION
AND IMMIGRATION COMPLIANCE ACT AFFIDAVIT

CONTRACTOR'S LEGAL ENTITY NAME _____

CONTRACTOR'S TENNESSEE LICENSE NUMBER _____

The Contractor, identified above, does hereby attest, certify, warrant, and assure that the Contractor shall not knowingly utilize the services of an illegal immigrant in the performance of the Agreement and shall not knowingly utilize the services of any subcontractor who will utilize the services of an illegal immigrant in the performance of any Services under this Agreement.

By executing this affidavit, the undersigned person or entity verifies its compliance with the Tennessee Lawful Employment Act codified at *Tennessee Code Annotated, Section 50-1-701, et. seq.*, stating affirmatively that the Contractor which is contracting with Williamson County government has registered with and is participating in the federal work authorization program commonly known as E-Verify or has obtained and maintains copies of the required documents in accordance with the applicable provisions of the Tennessee Lawful Employment Act.

The Contractor further agrees that it will continue to comply with all provisions of the Tennessee Lawful Employment Act, and it will contract for the physical performance of services in satisfaction of such contract only with subcontractors who comply with the applicable provisions of the Tennessee Lawful Employment Act.

The undersigned person or entity further agrees to maintain records of the documents or of such compliance including documentation for all subcontractor(s) retained to perform such service on behalf of the Contractor for the minimum period provided in the Tennessee Lawful Employment Act.

_____
BY: Authorized Officer or Agent Date
(Name of Person or Entity)

_____
Title of Authorized Officer or Agent

_____
Printed Name of Authorized Officer or Agent

Witness: _____

Date:_____