

SCOPE PROPOSAL

March 4, 2024

Templeton & Associates Engineering Sales
4324 Brogdon Exchange
Suwanee, GA 30024

ATTN: Jordan Longoria

**RE: Sylvania WPCP Upgrades – Screven County, Georgia
Precast Post-Tensioned Concrete Digester & Reactor Tank Structures**

Dutchland LLC manufactures various precast structures including, but not limited to, post-tensioned circular and rectangular concrete tanks to be used for potable water, wastewater storage, and wastewater treatment. We are pleased to offer the following proposal.

Proposal #E2022.0182-3

Scope of Work Description:

Design, manufacture, deliver, and install the Digester and Reactor Tank Structures. **Tank pricing assumes tanks are to be installed onto engineered fill installed by others.** All site work, site access, dewatering, and mechanical installation to be provided by others. Pricing is based on all tank structures being installed concurrently with continuous site access.

Reference Drawings and Specifications:

1. Bid Drawings prepared by Integrated Science and Engineering dated November 14, 2022.
2. Specifications:
 - a. Bid Specification Section 43 41 63 – “Precast Concrete Tanks”
 - b. Dutchland Standard Specification Section 03310 – “Cast-in-Place Concrete for Precast Post-Tensioned Concrete Tanks”
3. Geotechnical Report prepared by Whitaker Laboratory, Inc. dated June 25, 2001.

Design Assumptions and Standards:

1. Staged Reactor Tank:
 - a. Design groundwater elevation: **160.00**
 - b. Design flood elevation: **134.00**
 - c. Allowable bearing capacity: **1,500 psf**
 - d. Finished grade elevation used for uplift resistance: **157.00**
2. Aerobic Digester Tank:
 - a. Design groundwater elevation: **143.00**
 - b. Design flood elevation: **134.00**
 - c. Allowable bearing capacity: **2,000 psf**
 - d. Finished grade elevation used for uplift resistance: **143.00**

Rectangular Reactor Tank Description:

- Reactor Base Outside Dimensions: 57'-10" length x 34'-2" width.
- Splitter Box Base Outside Dimensions: 10'-4" length x 15'-2" width.
- Reactor Tank with a common wall:
 - One (1) Phase Separator Basin: 12'-0" length x 30'-0" width, inside dimensions.
 - One (1) Pre-Anoxic Basin: 10'-0" length x 30'-0" width, inside dimensions.
 - One (1) Anaerobic Basin: 30'-0" length x 30'-0" width, inside dimensions.
 - One (1) Influent Trough: 4'-2" length x 30'-0" width, inside dimensions.
 - One (1) Effluent Splitter Box: 9'-6" length x 11'-0" width, inside dimensions.
- Tank Wall Height: 18'-1" from the top of the base slab to the top of the walkway.
- Maximum Side Water Depth: 16'-0"

Reactor Tank Inclusions:

1. Cast-in-place reinforced concrete base slab consisting of a 16" thickness with no slope in basin floors.
2. 12-mil polyethylene barrier membrane between the sub-base stone and base slab.
3. Precast post-tensioned concrete walls.
 - a. Interior precast concrete Influent Trough.
 - b. Precast concrete corbels to support the Influent Trough.
 - c. Exterior precast concrete Effluent Splitter Box walls. *Stone fill, cast-in-place concrete floor, and cast-in-place interior walls supplied and installed by others.*
4. Full perimeter precast post-tensioned concrete walkways around the top of the basins. Walkways to be offset as required.
5. Precast post-tensioned concrete influent/supernatant trough.
6. Cast-in wall penetrations per Bid Drawings and Specifications. *Link seals by others.*
7. All cast-in-place concrete design criteria, including mix design, shall be per Dutchland Standard Specification Section 03310.
8. All precast concrete design criteria, including mix design, shall be per Dutchland Standard Specification Section 03420.
9. All reinforcement to be standard, non-epoxy coated.
10. Furnish and install base and wall joint sealant per Dutchland design standards.
11. All labor, material, and equipment necessary to pour base and erect tank structure.
12. Provide shop drawings and calculations signed and sealed by a licensed Professional Engineer in the State of Georgia for Dutchland's scope of work.
13. Two-year limited structural warranty. *This is a corporate guarantee and not covered by any bonds or insurance policies.*

Circular Digester Tank Description:

- Base Outside Diameter: 47'-6"
- Tank Inside Diameter: 40'-0"
- Tank Wall Height: 22'-0"
- Maximum Water Level: 20'-0"
- Total Volume to Maximum Water Level: 193,200 Gallons

Digester Tank Inclusions:

1. Cast-in-place reinforced concrete base slab consisting of a 16" thickness sloping to a center pier/sump.
2. 12-mil polyethylene barrier membrane between the sub-base stone and base slab.

3. Precast post-tensioned concrete walls with a 9" minimum thickness.
4. All cast-in-place concrete design criteria, including mix design, shall be per Dutchland Standard Specification Section 03310.
5. All precast concrete design criteria, including mix design, shall be per Dutchland Standard Specification Section 03430.
6. All reinforcement to be standard, non-epoxy coated.
7. Furnish and install base and wall joint sealant per Dutchland design standards.
8. All labor, material, and equipment necessary to pour base and erect tank structure.
9. Provide shop drawings and calculations signed and sealed by a licensed Professional Engineer in the State of Georgia for Dutchland's scope of work.
10. Two-year limited structural warranty. *This is a corporate guarantee and not covered by any bonds or insurance policies.*

Exclusions (Applicable to All Structures):

1. All site work related to access, excavation, excavation maintenance, shoring, sub-base preparation, dewatering, crane pads, delivery truck roads and pads, concrete delivery wash out areas/holes, and backfill of tank site.
2. Under slab piping and concrete pipe encasement.
3. Undercutting of unsuitable material (overdig and fill) and adding structural fill as detailed in the Geotechnical Report.
4. Stone fill, cast-in-place concrete floor (elevation 167.0'), and interior cast-in-place walls for the Effluent Splitter Box.
5. Survey and layout work other than precast layout.
6. Engineering approval fees.
7. Dumpsters, sanitary stations, and any other temporary facilities.
8. Water, other than drinking water for employees of Dutchland.
9. Grout fill in Phase Separator Basin.
10. All interior and exterior equipment and piping.
11. All testing including sub-grade testing, concrete strength break testing, and tank leak testing. *The Contractor is responsible for water supply, disposal of water, all pumping, pipe plugs, and labor to fully execute the leak testing requirements.*
12. All miscellaneous metal items including, but not limited to, slide gates, access stairs, ladders, permanent and temporary handrail, permanent and temporary safety barricades, and grating and grating support. *Safety railing installed by Dutchland is for use by Dutchland personnel only and will be removed upon Dutchland's demobilization from site.*
13. Interior and exterior coatings, if required.
14. Taxes.
15. State or Federal Prevailing Wages, Union labor, or the inclusion of Project Labor Agreements.
16. Traffic control into and onsite.
17. All costs associated with wintertime/cold weather construction.
18. Protection of work.
19. Consequential damages and GC/Owner's attorney fees.
20. Installing any item that Dutchland did not supply.
21. All bonds including, but not limited to, performance and payment bonds, state and local highway bonds, and road bonds.
22. Costs to repair road damage caused by concrete trucks, tractor-trailer delivery trucks, and cranes.
23. Permits, easements, and right-of-way agreements.

Qualifications and Clarifications:

Site Access and Preparation Specific:

1. GC and Dutchland must develop and mutually agree upon a final "Site Logistics Plan" prior to the execution of a contractual agreement, and it must be attached to the final contractual agreement between the two parties. Pricing is based on precast installation cranes utilizing up to 100% of chart capacity. Non-engineered lift plans and in-house engineered erection plans are included. Any requirements for engineered lift plans, independent engineered erection plans, or a reduction in allowable crane chart capacity shall be subject to additional costs.
 - a. GC to provide two (2) 50' x 35' level crane pads with a maximum reach of 80' from the center pin of the crane to the furthest wall panel for setting precast walls.
 - b. Crane pads to be made of stone and located north of the new Digester Tank and west of the new Reactor Tank. *See attached drawing for details.*
 - c. GC to provide stoned access area to crane pads.
2. GC is responsible for all labor, material, and costs associated with providing and maintaining access roads into and within the jobsite as required to support the logistics of Dutchland. Site access roads are to be level, cleared, and dry (in all weather conditions), with a 14'-0" minimum height clearance and 15'-0" minimum width capable of handling tractor trailer combinations with 90,000 lbs. GVWR operating under their own power with adequate maneuverability.
3. GC is responsible for all labor, material, and costs associated with providing and maintaining crane and pump truck pads to support the logistics of Dutchland. Area in front of the crane or pump truck pads to accommodate two tractor trailers or mixer trucks for off-loading. Crane and pump truck pads are to be level, solid, cleared, and dry (in all weather conditions).
4. Site access roads and crane and pump truck pads must be maintained by the GC until Dutchland has completed its scope of work. Application of stone by GC may be required to ensure all weather access and maintenance.
5. GC is responsible for all necessary work to eliminate any overhead and ground interference for Dutchland's equipment on site including the crane and its 360-degree rotation. The crane operator must have an unobstructed view of his work area.
6. The excavation is to extend 4'-0" beyond the perimeter of the concrete base to allow for adequate working access.
7. GC to provide survey and layout complete with the corners of the tank structures and all underground utilities marked and an elevation pin.
8. GC is responsible for testing the subgrade and/or sub-base bearing capacity to confirm it meets the required bearing capacity, moisture, and density. GC will be responsible for all repairs and costs if concrete walls or concrete base shift, move, or crack due to poor subgrade and/or sub-base bearing capacity.
9. GC to consider Dutchland's access requirements when determining shoring locations for the excavation. Any additional costs associated with the failure to coordinate shoring locations with the access requirements of Dutchland will be the sole responsibility of the GC.
10. GC to keep the excavation for the tanks free of water at all times by any means necessary. This includes measures necessary to eliminate storm water runoff from entering the excavation site and snow removal. Water removal and the protection necessary to prevent water from entering the excavation site must continue until the tanks are installed and the backfilling is complete.
11. GC to furnish and install a stable subgrade and stone sub-base capable of achieving the minimum bearing capacity defined by the Design Engineer. A 6" minimum thick stone sub-base consisting of 3/4" stone finely leveled and screeded within plus or minus 1" of stone grade specified in the approved shop drawing created by Dutchland.
12. GC to provide a water supply to Dutchland with no fee imposed upon Dutchland for its use.
13. All excavation, trenching, and similar work shall be performed by the GC/Site Contractor and shall be in strict conformance with any and all applicable OSHA regulations and requirements, as well as conformance with any and all applicable safety requirements of all applicable governing entities.
14. Backfill must be completed per project plans and specification requirements.

General Qualifications/Clarifications:

1. The GC is to use extreme care when vehicles/heavy equipment are close to tank structures.
2. Payment for precast manufactured and stored at Dutchland is required. Dutchland will provide insurance and all required documentation.
3. Billing to be based on mutually agreed upon schedule of values with monthly invoicing based on actual work completed. Net thirty (30) days.
4. Payment security required. Payment security may be in the form of performance and payment bonds, letter of credit, or joint escrow account.
5. Proposal pricing is offered until **5/31/2024** and is subject to change pending final permits, reviews, inspections, etc.
6. **Due to ongoing global events, diesel prices are subject to extreme volatility. As such, Dutchland cannot commit to a long-term fixed price for the delivery of our product.**
 - a. Dutchland has included the shipping costs in our pricing based on an average diesel price up to \$4.75 per gallon.
 - b. In the event the average diesel price rises above the listed per gallon price noted in Item 6.a, GC agrees to a change in contract total of \$98.00 for every \$0.05/gallon increase. Change in contract total to be assessed at the time of shipping.
 - c. Average diesel pricing based on Central Atlantic (PADD 1B) ULS Diesel as listed on: https://www.eia.gov/dnav/pet/pet_pri_gnd_dcus_r1y_w.htm
7. The final payment may not be retained by GC if project delays occur, which are not directly caused by Dutchland, that cause the project completion date to extend beyond the planned completion date of the project at time of award, regardless of the payment terms of the GC with the Owner.
8. Proposal pricing is based upon GC/Owner providing insurance coverage, such as a Builders Risk Policy, to address any/all possible costs and damages associated with an Act of God event such as, but not limited to, flood, tornado, earthquake, high wind event, or some other uncontrollable event. This coverage shall also include the interests of Dutchland.
9. If the project is tax exempt, Dutchland must have a copy of the tax exemption certification sent with the contractual agreement.

Attachments Considered Part of this Proposal:

1. Proposed Preliminary Site Logistics Plan.

Pricing and Alternates:

Reactor Tank Total\$787,750.00
Taxes are not included.

Digester Tank Total \$432,350.00
Taxes are not included.

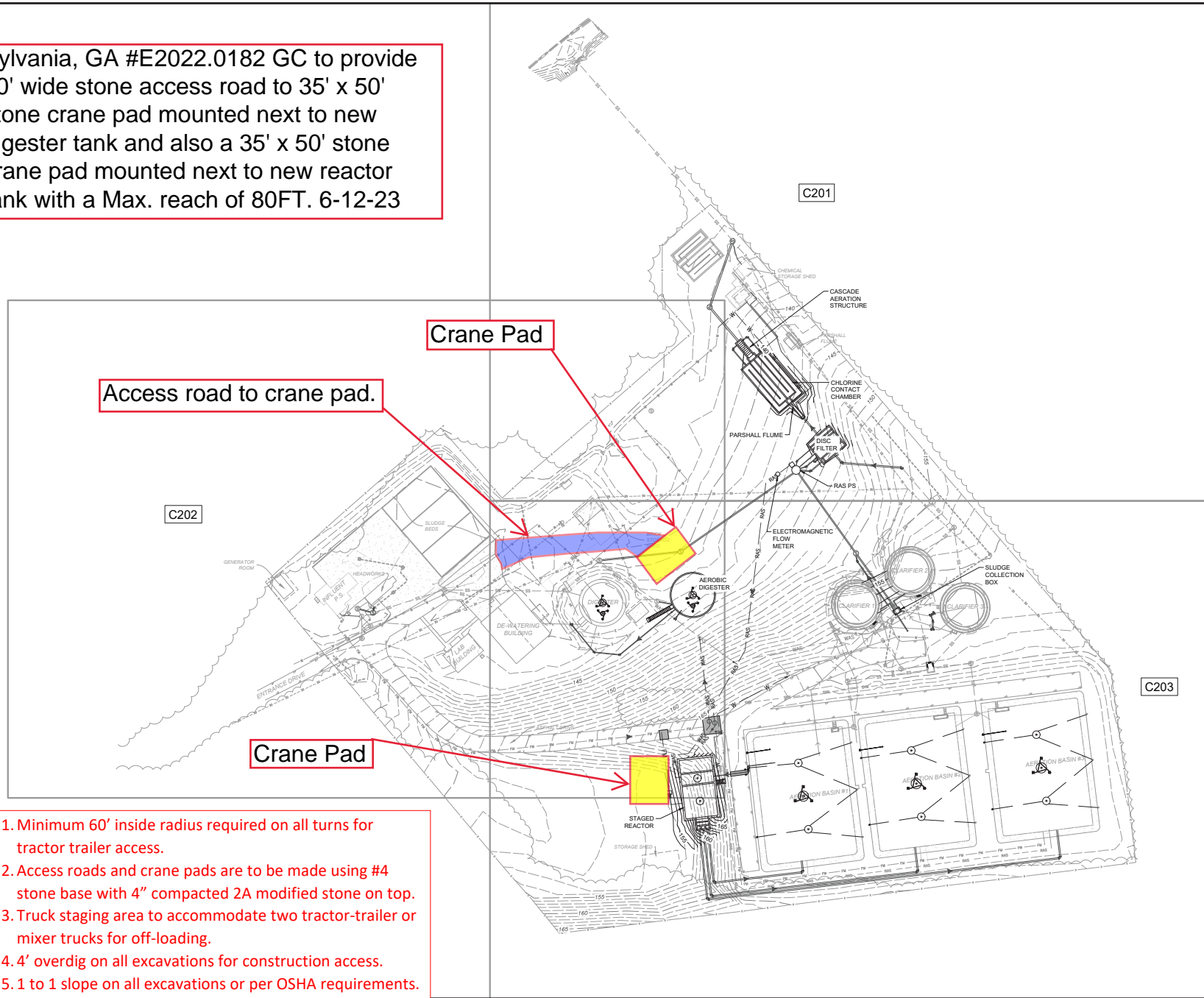
Thank you for allowing Dutchland LLC to be a part of this project.

Sincerely,



Jose Leon
South Regional Sales Manager
Dutchland LLC

Sylvania, GA #E2022.0182 GC to provide 20' wide stone access road to 35' x 50' stone crane pad mounted next to new digester tank and also a 35' x 50' stone crane pad mounted next to new reactor tank with a Max. reach of 80FT. 6-12-23



Access road to crane pad.

Crane Pad

Crane Pad

1. Minimum 60' inside radius required on all turns for tractor trailer access.
2. Access roads and crane pads are to be made using #4 stone base with 4" compacted 2A modified stone on top.
3. Truck staging area to accommodate two tractor-trailer or mixer trucks for off-loading.
4. 4' overdig on all excavations for construction access.
5. 1 to 1 slope on all excavations or per OSHA requirements.
6. Do not over-excavate at crane pad locations.



Rev.	Description	Date	By
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Date: 06/12/23
 Drawn by: [Redacted]
 Project #: 2022.0182
 Scale: 1" = 40'
 40' 20' 0' 40'

CONSTRUCTION PLANS
FOR
SYLVANIA WPCP UPGRADES
LOCATED IN SCRIPPS COUNTY, GEORGIA

OVERALL PROPOSED
SITE PLAN

DRAWING NO.
C200