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B U D G E T A R Y P R O P O S A L

January 17, 2022

Town of Boonsboro
21 North Main Street
Boonsboro, MD 21713

ATTN: Paul Mantello

RE: Town of Boonsboro Reservoir Replacement – Boonsboro, Maryland AWWA-D115 Precast Post-Tensioned Concrete Water Storage Tank Options

Dutchland, Inc. 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 #E2021.0199-2

Scope of Work Description:

Design, manufacture, deliver, and install the Water Storage Tank Structures. Tanks are to be installed onto a stone sub-base installed by others. All site work, site access, dewatering, and mechanical installation to be provided by others.

Design Assumptions and Standards:

1. Tank subgrade assumed to have an adequate soil bearing capacity and settlement values to support these structures with no ground or flood water conditions.
2. Tank structures are designed to Dutchland, Inc. Standard Specifications based on the latest AWWA-D115 Standard.

TANK OPTION #1: TWO (2) 500,000 GALLON AWWA-D115 CIRCULAR TANKS

Tank Description:

- Base Outside Diameter: 64'-0"
- Tank Inside Diameter: 60'-0"
- Tank Wall Height: 25'-0"
- Maximum Water Level: 24'-0"
- Total Volume to Maximum Water Level: 500,000 Gallons per Tank

Inclusions:

1. Cast-in-place concrete base slab consisting of a 16" thickness under the wall panels and roof support column reducing to a 6" thickness for the remainder of the base with no slope in the basin floors.
2. 12-mil polyethylene vapor barrier membrane between the sub-base stone and base slab.
3. AWWA-D115 precast post-tensioned concrete circular tank walls with a 9" minimum thickness.
4. Precast post-tensioned concrete roof system (3% minimum slope) with a minimum of 4" thickness, including a concrete center support column.

ENGINEERED CONCRETE ENVIRONMENTAL SOLUTIONS

Prestressed Concrete Water and Wastewater Tanks | Package & Custom Wastewater Treatment Plants

5. Furnish and install the following appurtenances:
 - a. One (1) aluminum flood-type access hatch, 36" x 48".
 - b. Aluminum handrail around access hatch.
 - c. One (1) 24" spun aluminum vent.
 - d. One (1) exterior aluminum ladder to grade with a safety cage and lockable swing down hatch.
 - e. One (1) interior stainless steel ladder with a safety-climb system.
 - f. One (1) 24" diameter stainless steel wall man-way.
 - g. One (1) stainless steel overflow weir.
 - h. One (1) stainless steel silt stop with vortex breaker.
 - i. Sch. 80 PVC overflow pipe to grade with stainless steel standoff pipe brackets, stainless steel screening, and one (1) wall sleeve with Link Seal.
6. Minimum compressive strength of cast-in-place concrete shall be 4,000-PSI at 28-days with a fiber-mesh additive.
7. Minimum compressive strength of precast concrete shall be 5,000-PSI at 28-days.
8. All reinforcement to be standard, non-epoxy coated.
9. Furnish and install base and wall joint sealant per Dutchland, Inc. design standards.
10. All labor, material, and equipment necessary to pour bases and erect tank structures.
11. Provide shop drawings and calculations signed and sealed by a licensed Professional Engineer in the State of Maryland for Dutchland, Inc.'s scope of work.
12. Two-year limited structural warranty.

OPTION #1 Combined Total (Two Tanks) \$1,250,000.00
Taxes are not included.

<i>Upgrade Structural Warranty to 5 Years</i>	<i>1.05% of Contract Value</i>
<i>Upgrade Structural Warranty to 10 Years</i>	<i>1.65% of Contract Value</i>

TANK OPTION #2: ONE (1) 1MG GALLON AWWA-D115 ELLIPTICAL TANK

Tank Description:

- Base Outside Dimensions: 144'-2" length x 74'-2" width.
- Elliptical Storage Tank with a center dividing wall bisecting the tank in the short direction:
 - Two (2) Raw Water Basins: 69'-7" length x 70'-0" width, inside dimensions.
- Tank Wall Height: 19'-0" from top of base slab to top of roof.
- Maximum Water Level: 16'-0"
- Total Volume to Maximum Water Level: 1,000,000 Gallons

Inclusions:

1. Cast-in-place reinforced concrete base slab consisting of a 16" thickness under the wall panels and columns reducing to a 6" thickness for the remainder of the base slab with no slope in basin floors.
2. Precast post-tensioned concrete walls with a 10" minimum thickness.
3. Precast post-tensioned concrete roof and roof support system with a 12" minimum thickness. Roof to slope 2% towards the outside edge for water run-off.
4. Furnish and install the following appurtenances:
 - a. Two (2) aluminum flood-type access hatches, 36" x 48".
 - b. Two (2) 24" spun aluminum vents with aluminum screen.
 - c. One (1) exterior aluminum ladder to grade with a safety cage and lockable swing down hatch.
 - d. Two (2) interior stainless steel ladders with safety-climb systems.
5. Minimum compressive strength of cast-in-place concrete shall be 4,000-PSI at 28-days with a fiber-mesh additive.

6. Minimum compressive strength of precast concrete shall be 5,000-PSI at 28-days.
7. All reinforcement to be standard, non-epoxy coated.
8. Furnish and install base and wall joint sealant per Dutchland, Inc. design standards.
9. All labor, material, and equipment necessary to pour base and erect tank structure.
10. Provide shop drawings and calculations signed and sealed by a licensed Professional Engineer in the State of Maryland for Dutchland, Inc.'s scope of work.
11. Two-year limited structural warranty.

OPTION #2 Total \$1,406,500.00
Taxes are not included.

<i>Upgrade Structural Warranty to 5 Years</i>	<i>1.05% of Contract Value</i>
<i>Upgrade Structural Warranty to 10 Years</i>	<i>1.65% of Contract Value</i>

Exclusions:

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. Survey and layout work other than precast layout.
 3. Dumpsters, sanitary stations, and any other temporary facilities.
 4. Water, other than drinking water for employees of Dutchland, Inc.
 5. Tank disinfection and wastewater and water removal.
 6. All interior and exterior equipment and piping.
 7. All testing including sub-grade testing, concrete strength break testing, and tank leak testing.
 8. Interior and exterior coatings, if required.
 9. Taxes.
 10. State or Federal Prevailing Wages, Union labor, or the inclusion of Project Labor Agreements.
 11. All costs associated with wintertime/cold weather construction.
 12. Installing any item that Dutchland, Inc. did not supply.
 13. All bonds including, but not limited to, performance and payment bonds, state and local highway bonds, and road bonds.
 14. Costs to repair road damage caused by concrete trucks, tractor-trailer delivery trucks, and cranes.
 15. Permits, easements, and right-of-way agreements.
- No items other than those mentioned in the above scope are included.
 - Dutchland, Inc. will install only that which Dutchland, Inc. supplies.
 - Proposal is based on non-prevailing wage rates and Dutchland, Inc. standard wages.
 - Due to the ongoing pandemic and changing supply chain, Dutchland, Inc. cannot provide a fixed price proposal for any extended duration. Pricing is subject to change pending review of market conditions at time of Contract.

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

Sincerely,



Michael J. Brown
Regional Sales Manager
 Dutchland, Inc.

cc: Jason North, Chesapeake Environmental Equipment