

# Fluet Engineering Associates

Civil and Environmental Engineers  
(a division of DuBois & King)

Project: VDOE - Reinach Cast In Place Storage Tank

Calculated By: NJS

Date: 12/19/2018

Checked By: PRF

Date: 12/19/2018

**NOTE:** In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein.

## OPINION OF PROBABLE CONSTRUCTION COST

UNIT NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
1	Mobilization/Demobilization	LS	1	\$ 15,000.00	\$ 15,000.00
2	Erosion Controls	LS	1	\$ 5,000.00	\$ 5,000.00
3	Booster Pump Station Equipment & Electrical	LS	1	\$ 50,000.00	\$ 50,000.00
4	Ledge Removal	CY	50	\$ 200.00	\$ 10,000.00
5	Unclassified Excavation	CY	150	\$ 20.00	\$ 3,000.00
6	Abandon in Place of Existing Tanks	LS	1	\$ 6,000.00	\$ 6,000.00
7	Crushed Gravel Fill	CY	100	\$ 35.00	\$ 3,500.00
8	Common Fill	CY	2500	\$ 15.00	\$ 37,500.00
9	Concrete 90,000 gal Tank floor and walls	CY	265	\$ 600.00	\$ 159,000.00
9	Concrete 90,000 gal Tank Roof	CY	80	\$ 1,000.00	\$ 80,000.00
10	Fill around Tank	LS	1	\$ 5,000.00	\$ 5,000.00
11	Piping and Valves	LS	1	\$ 30,000.00	\$ 30,000.00
12	Hatches, Insulation, Ladders, Railings, Misc.	LS	1	\$ 25,000.00	\$ 25,000.00
13	Retaining Walls & Fencing	LS	1	\$ 20,000.00	\$ 20,000.00
14	Loam	CY	200	\$ 35.00	\$ 7,000.00
15	Hydroseed	SF	20,000	\$ 0.15	\$ 3,000.00
16	Distribution	LS	1	\$ 55,000.00	\$ 55,000.00
17	Construction Phase engineering	LS	1	\$ 33,000.00	\$ 33,000.00
18	SCADA	LS	1	\$ 35,000.00	\$ 35,000.00
19	Road repairs	LS	1	\$ 12,000.00	\$ 12,000.00

Sub-Total \$ 594,000.00  
10% Contingency \$ 59,400.00  
**Total \$ 653,400.00**

### Additional Costs:

1. Maintenance/Cleaning in Year 10, 20, 30, 40: \$5,000 x 4 = \$20,000
2. Probable concrete tank life 80-100 years.