



System: Arabian Acres Metro District
 Task: EIAF Engineer's Opinion of Costs
 Date: 12/16/2019

Project Budget

SRF Low Interest Loan	\$1,500,000
EIAF Grant	\$1,000,000
Total:	\$2,500,000

Water Storage Tank Improvements		Cost:	\$	299,720
Water Storage Tank Addition. 100,000 gallons. Includes Site Work & Foundation.	1 Each	\$ 205,000	\$	204,000
Additional Tank Level Control	1 Each	\$ 32,000	\$	32,000
<i>Contractor Overhead & Profit</i>	12%		\$	28,320
<i>Bidding, SRF Administration, & Construction Engineering Consulting</i>	5%		\$	11,800
<i>Contingency</i>	10%		\$	23,600

Drinking Water Treatment Improvements		Cost:	\$	375,920
Drilling New Well Near Control Building A	1 Each	\$ 30,000	\$	30,000
Redrill Well #3	1 Each	\$ 30,000	\$	30,000
Well/Treatment Building Improvements (Control Buildings A & B)	2 Each	\$ 100,000	\$	200,000
Install Chlorine Contact Piping	240 Feet	\$ 150	\$	36,000
<i>Contractor Overhead & Profit</i>	12%		\$	35,520
<i>Bidding, SRF Administration, & Construction Engineering Consulting</i>	5%		\$	14,800
<i>Contingency</i>	10%		\$	29,600

Existing Distribution System Improvements (Replacement for System Except C900 for Trout Haven)		Cost:	\$	4,322,624
Replace Existing Water Lines with 4" HDPE (maintain bury depth) ¹	30,000 Feet	\$ 100	\$	3,000,000
◦ Allowance for Gate Valves, Hydrants, and Air Relief Valves / Pressure Relief (10% of Line Work)	10%		\$	300,000
Restore Gerka Ln to Lower Gerka Ln Loop	720 Feet	\$ 100	\$	72,000
◦ Allowance for Gate Valves, Hydrants, and Air Relief Valves (10% of Line Work)	10%		\$	7,200
<i>Contractor Overhead & Profit</i>	12%		\$	405,504
<i>Bidding, SRF Administration, & Construction Engineering Consulting</i>			\$	200,000
<i>Contingency</i>	10%		\$	337,920
<i>Cost Per Foot of Water Line (Includes cost per foot + 10% for valves + O&P + Construction Engineering +Contingency)</i>			\$	141
Grand Total:			\$	4,998,264

AquaWorks Recommends the Following Improvements for a \$2,500,000 Project Budget

Water Storage Tank Improvements	\$	299,720
Drinking Water Well Improvements	\$	375,920
Subtotal:	\$	675,640

Budget for Distribution System Improvements (Total Project Budget - Subtotal) \$ 1,824,360

Work on Distribution System will be bid as "Unit Price" per foot of water line. Work completed dependent upon Unit Price from contractor.

At \$141 per foot (including water line, valves, O&P, Construction Engineering, Contingency) <u>feet</u> completed:	12,939
At \$130 per foot (including water line, valves, O&P, Construction Engineering, Contingency) <u>feet</u> completed:	14,034
At \$120 per foot (including water line, valves, O&P, Construction Engineering, Contingency) <u>feet</u> completed:	15,203
At \$100 per foot (including water line, valves, O&P, Construction Engineering, Contingency) <u>feet</u> completed:	18,244
At \$90 per foot (including water line, valves, O&P, Construction Engineering, Contingency) <u>feet</u> completed:	20,271