

Wastewater Capital Improvements Project Lift Station Upgrades

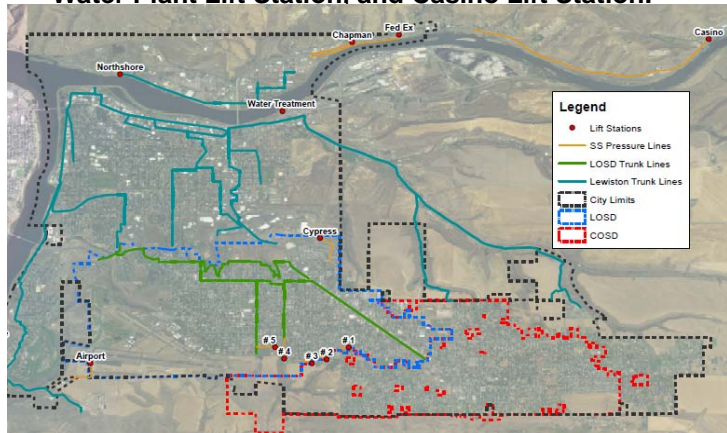
Project Identifier: 1b

Objective: Correct existing deficiencies identified at each lift station during site visits in September 2014.

Potential Issues:

- Maintaining Operation during construction activities.
- Potential high groundwater

Project Location: Airport Lift Station, Chapman Lift Station, Fed Ex Lift Station, Water Plant Lift Station, and Casino Lift Station.



Items	Unit	Unit Price	Estimated Quantity	Estimated Cost (2017)
Airport Lift Station Upgrades (New Lid, Security Fencing, Fall Protection)	LS	\$ 10,600	1	\$ 10,600
Chapman Lift Station Upgrades (Security Fencing, Fall Protection)	LS	\$ 6,400	1	\$ 6,400
Fed Ex Lift Station Upgrades				
Replace Corroded Cable Hanger in Wet Well with Stainless Steel	LS	\$ 1,100	1	\$ 1,100
Replace Wet Well Cover	LS	\$ 3,200	1	\$ 3,200
Provide Fall Protection in Wet Well	LS	\$ 2,100	1	\$ 2,100
Rehabilitate/Replace Down Stream Manholes (assumes 10)	EA	\$ 2,100	10	\$ 21,000
Install an Air Release Valve within Existing Valve Vault	LS	\$ 3,700	1	\$ 3,700
Water Plant Lift Station Upgrades				
Install Backwater/Check Valve	LS	\$ 10,600	1	\$ 10,600
New Pumps with VFDs	EA	\$ 26,500	2	\$ 53,000
Extend Backup Power to Lift Station	LS	\$ 12,700	1	\$ 12,700
Provide Fall Protection in Wet Well	LS	\$ 2,100	1	\$ 2,100
Casino Lift Station Upgrades				
Install Security Fencing and Fall Protection	LS	\$ 6,400	1	\$ 6,400
Install a Grease Aerator	LS	\$ 15,900	1	\$ 15,900
Rehabilitate/Replace Down Stream Manholes (assumes 10)	EA	\$ 2,100	10	\$ 21,000
Subtotal				\$ 169,800
Mobilization - Percent of Item Cost Sum	%	10%		\$ 16,980
Contingency - % of construction costs	%	35%		\$ 59,430
Total Construction Costs				\$ 246,210
Engineering and CMS - % of construction costs	%	25%		\$ 61,553
Groundwater Infiltration Investigation	LS	\$ 6,000	1	\$ 6,000
Total Estimated Cost (rounded)				\$314,000

The cost estimate herein is based on our perception of current conditions at the project location. This estimate reflects our opinion of probable costs at this time and is subject to change as the project design matures. Keller Associates has no control over variances in the cost of labor, materials, equipment, services provided by others, contractor's methods of determining prices, competitive bidding or market conditions, practices or bidding strategies. Keller Associates cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the cost presented herein.