

ESTIMATED PROJECT BUDGET
Fairfield Library Central Plant Upgrades
Solano County
1150 Kentucky Street

Updated: 02/26/2018

Option #1A

Replace Evaporative Cooled Chiller/Boiler Packaged Unit, VAV replacement, duct work mods

HARD COSTS	Cost
Mechanical & Electrical Work	
MEP Estimate - From Stanton Engineering	
VAV boxes, ductwork, grilles, access hatches	\$42,800
Air handler repairs and modifications	\$48,000
EF-1 Replacement	\$6,000
EF-4 vfd	\$5,000
IT split system	\$7,500
Air balancing	\$20,000
Controls	\$117,000
Chiller/boiler - TO BE PURCHASED BY COUNTY	\$0
Demolition / Install pumps, piping & accessories	\$221,000
Chemical treatment	\$15,000
Electrical	\$35,000
Condensate drain installation, including trenching	\$31,050
Mechanical contractor subtotal	\$548,350
Contractor mark up @ 15%. Does not include mark up on Chiller unit purchased by the County.	\$82,253
Allowance for installing hydronic lines for heating/cooling of the loading dock area. Also for installing duct work on the second floor for the new office to be built in the existing Telephone Assistance Room.	\$6,000
MEP Contractor total	\$636,603
Solano County Purchase chiller/boiler unit	\$499,684
chiller/boiler includes 2 year parts & labor warranty and taxes	
Allowance: Maxim boom truck to unload and load unit at County "Corp yard".	\$6,000
Subtotal MEP costs	\$1,142,287
MEP material escalation factor of 0.0066% per month x 3 months. Bids held for 90 days; mid April or mid July. Material escalation through mid October is included. ,	\$22,617
Subtotal MEP costs including escalation	\$1,164,904
CP Yard/Enclosure Construction	
CP Yard Enclosure modifications - Remove & Reinstall upper metal panels for crane access. Metal panels to be salvaged/reused.	\$5,000
Site landscaping - Planter/lawn repair from trenching	\$15,000
Temporary Equipment - Includes set up/take down of a chiller or boiler rental unit for 1 month	\$17,500
Contingency for chiller or boiler rental for 2 additional months.	\$20,000
Contingency (15%) of mechanical contract & Controls	\$174,736
Subtotal Hard Costs	\$1,397,139
SOFT COSTS	Costs
Design	
Feasibility Study	\$52,200
Bldg Load calcs & design	\$38,640
Control upgrade design	\$22,320
Total for design fees (ASA has already been issued)	\$22,320
Contingency for design/engineering fees during construction for unforeseen conditions. Contingency is based on 7.5% of subtotal hard costs	\$104,785
Project Management	
CPM labor (Feasibility Study)	\$5,512
Allowance: CPM Staff time based on 8% of the project subtotal hard costs or 595 hours for design, bidding, construction and closeout	\$107,000
Allowance: Facilities BTM assistance during shut downs, start up's, commissioning	\$5,000
Permits	
Planning - N/A	\$0
Building - Permit was ready to be picked up 01/02/18. Estimate is based on actual fees that have been paid.	\$5,179
Fire Department - N/A Confirmed with fire dept.	\$0
Special Inspections	
Health	
Agency	
Pull testing	
Concrete slump & break test	\$8,500
Direct Costs	
Advertisements	\$900
Printing	\$1,277
Online Plan room posting	\$850
Operational Impacts	
N/A	
N/A	
Subtotal Soft Costs	\$261,323
TOTAL ESTIMATED PROJECT BUDGET	\$1,658,463