



CAPITAL IMROVEMENT PROJECT (CIP) REQUEST - FY22
FORM A - DESIGN & CONSTRUCTION

Project Title:	FY22 Water Improvements		
Project Address:	Various		
Department:	IAM - Engineering		
Project Mgr.:	Jonathan Smith	Email:	jsmith@somervillema.gov
New Project or Modification:	New Project		

Department Priority:	Necessary	First
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Rank your project(s) in order of priority from your point of view. If you propose four projects, rank them 1, 2, 3, 4, with 1 being the highest, and so forth.

Project Description/Scope of Work:

Design and construction of yearly rehabilitation to the water distribution systems, including but not limited to: water mains, hydrants, and shut-off valves. Design services will prioritize deficiencies found in the water system based on consequence and likelihood of failure. Design services will include engineering services during construction. Improvements include rehabilitation of existing pipes by clean and lining, installation of additional shut-off valves, and installation of new pipe as necessary.

Justification:

Water Distribution Improvement Plan study identified many deficiencies in the existing water system. The Plan identified a long-term need to repair and update the existing water system that requires annual design and rehabilitation projects. Rehabilitating the existing water system is required to meet the demands for firefighting and community use.

Relationship to Other Projects:

Project selection based on September 2020 Kleinfelder plan titled "Water Distribution Improvement Plan"

Category: Please check all appropriate boxes

- ☐ Architectural/Engineering Feasibility Study
- ☒ Architectural/Engineering Construction Document Services & Construction Admin
- ☐ Building Alteration/Repair/Renovation/Addition/New Construction
- ☐ Building Improvements (non-construction)
- ☐ Purchase of Equipment (incl. vehicles, office equipment, hardware, etc.)
- ☐ Information Technology Systems/Platforms (e.g. cloud based, internet based, etc.)
- ☐ Street/Sidewalk/Monument Improvements
- ☐ Water Improvements
- ☒ Sewer Improvements
- ☐ Land Development
- ☐ Land Acquisition
- ☐ Land Disposition
- ☐ Parks and Open Space
- ☐ Other

Operational Impact:

By replacing aging water distibution system, mitigates risk and cost of failure of water system.

What impact will this project have on operational costs?

- ☐ Reduce Cost (greater than 5%)
- ☐ Reduce Cost (less than 5%)
- ☐ Cost Unchanged
- ☒ Increase Cost (less than 5%)
- ☐ Increase Cost (greater than 5%)

Design and Construction Project Funding

Total Estimated Cost		Prior Years Funding	FY 22	FY 23	FY 24	FY 25	FY 26
Capital Costs:							
Feasibility Study	\$ -						
Land Acquisition/Appraisal	\$ -	-	-	-	-	-	-
Environmental Remediation/LSP	\$ -						
Demolition & Site Clearance	\$ -	-	-	-	-	-	-
Owner's Proj. Mgr./Clerk of the Works	\$ -						
Designer Services (SD through CA)	\$ 560,000			\$ 560,000			
Construction	\$ 5,600,000	-		\$ 5,600,000		-	-
Insurance (builder's risk, addtl. Policies)	\$ -	-				-	-
Furniture & Equipment (FFE)	\$ -						
Police Details	\$ 280,000	-		\$ 280,000		-	-
Contingency	\$ 672,000			\$ 672,000			
Other (Specify)	\$ -	-	-	-	-	-	-
Other (Specify)	\$ -	-	-	-	-	-	-
Total:	\$ 7,112,000	\$ -	\$ -	\$ 7,112,000	\$ -	\$ -	\$ -

Cost estimate is based on 20-year, long-term water improvements plan provided by Kleinfelder.

Please provide suggested sources. This section will be finalized jointly by Finance and the Department.

Funding Sources:		Prior Years Funding	FY 22	FY 23	FY 24	FY 25	FY 26
Stabilization Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
GO Bonds	\$ 7,112,000	-		7,112,000		-	-
Retained Earnings	\$ -						
General Fund	\$ -						
Special Assmnt.	\$ -	-	-	-	-	-	-
Ch. 90	\$ -						
Grants	\$ -	-	-	-	-	-	-
Receipts Reserved	\$ -						
Other (Specify)	\$ -	-	-	-	-	-	-
Other (Specify)	\$ -	-	-	-	-	-	-
Total:	\$ 7,112,000	\$ -	\$ -	\$ 7,112,000	\$ -	\$ -	\$ -

Evaluation Committee Use Only:

Reviewed and Approved By:

Requesting Department

Auditing

Purchasing

Date

Date

Date

Final Approval

Version

Draft

Revised

Accepted



CAPITAL IMPROVEMENT PROJECT (CIP) REQUEST - FY20
FORM B - EQUIPMENT & ASSETS

Equipment Requested:

Department:

Project Mgr.:Email:

New Project or Modification: Select Project Type

Department Priority: Select Project PrioritySelect Order of Priority

Rank your project(s) in order of priority from your point of view. If you propose four projects, rank them 1, 2, 3, 4, with 1 being the highest, and so forth.

Equipment/Asset Description:

Please describe what the equipment or asset does; what it will be used for; etc.

Justification:

Please indicate the need for the project and what it is expected to accomplish and its anticipated useful life. Include how much the project will impact city operations. Support your case for why the proposed project is urgent, necessary or desirable.

Relationship to Other Projects:

Describe the relationship between proposed CIP and other projects or plans (e.g. SomerVision, Green Line Extension, Sustainaville/Climate Forward, VisionZero, inclusionary/affordable housing, etc.)

Operational Impact:

Please detail any additional operational costs or revenues, if any, that may be the result of this purchase e.g. the new equipment will reduce emergency repair costs by \$10,000 per year. Or the new equipment will lead to \$5,000 in additional fee revenue collected. Please enter these dollar amounts on the table below.

What impact will this project have on operational costs?

- ☐ Reduce Cost (greater than 5%)
- ☐ Reduce Cost (less than 5%)
- ☐ Cost Unchanged
- ☐ Increase Cost (less than 5%)
- ☐ Increase Cost (greater than 5%)

	FY20	FY21	FY22	FY23	FY24
Average Annual Repair Costs	\$ -	\$ -	\$ -	\$ -	\$ -
Average Annual Maintenance Costs	-	-	-	-	-
Other (Specify)	-	-	-	-	-
Implementation	-	-	-	-	-
Other (Specify)	-	-	-	-	-
Total:	\$ -	\$ -	\$ -	\$ -	\$ -

Estimated useful life:

Cost Per Unit:# of Units Requested:Total Cost:-

Please describe how you came up with your cost estimate.

see other side

Equipment Being Replaced (if any):

	Item	Make	Age	Avg. Maint. Cost	Avg Repair Costs	Rental Cost
A.						
B.						
C.						
D.						
E.						

Recommended disposition of items being replaced:

Possible use by other departments, trade-in, surplus sale, etc.

Evaluation Committe Use Only:

Reviewed and Approved By:

Requesting Department	
Auditing	
Purchasing	

Date	
Date	
Date	
Final Approval	

Version	
Draft	
Revised	
Accepted	

New Project	First	Urgent
Modification	Second	Necessary
	Third	Desirable
	Fourth	
	Fifth	
	Sixth	
	Seventh	
	Eighth	
	Ninth	
	Tenth	