



CAPITAL IMROVEMENT PROJECT (CIP) REQUEST - FY23  
FORM A - DESIGN & CONSTRUCTION

Project Title:	Poplar Street Pump Station Project - Pump House & Facilities - TOTAL IGMPs 1 & 2		
Project Address:	10 Poplar Street		
Department:	IAM - Engineering		
Project Mgr.:	Jonathan Smith	Email:	<a href="mailto:jsmith@somervillema.gov">jsmith@somervillema.gov</a>
New Project or Modification:	Modification to Existing Project		

Department Priority:

Necessary

First

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:**

Project includes ongoing design services and construction of two Interim Guaranteed Maximum Price (IGMP) work packages under the CM@R procurement method; IGMP 1 consists of support of excavation, stormwater storage tank, soil excavation and disposal, pump house equipment, force main, site borings, and site preparation. IGMP 2 consists of the remainder of pump house construction and influent screening equipment. Project includes Consultant and Owners Project Manager construction administration services and CM@Risk services for construction including management of subcontractors, subbids, phasing of work, permitting, and procurement of work packages.

**Justification:**

The Pump Station will serve as a restoration of a century-old drainage pathway for the greater Union Square area, taking advantage of excess capacity in the GLX drainage system, redirecting stormwater flow from the MWRA system to a stormwater storage tank and 50MGD pump array designed to optimize the flood-reduction and I/I offset benefits of the GLX connection.

**Relationship to Other Projects:**

The Pump Station relates to the SAUSI project, Spring Hill Sewer Separation project and future system improvements, allowing for diversion of stormwater flows to the proposed facilities. The overall site development at 10 Poplar Street supports the longer term Brickbottom Vision Planning, serving as a community hub and transit-oriented public space.

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:**

The Pump Station and associated facilities will improve the Water and Sewer Department’s management of catch basin grit, as well as serve as a nerve center for stormwater management through system monitoring equipment and infrastructure controls.

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 23	FY 24	FY 25	FY26	FY 27			
<b>Capital Costs:</b>										
Feasibility Study		\$	-	\$	-	\$	-	\$	-	\$
Land Acquisition/Appraisal	\$	-	-	\$	-	\$	-	\$	-	\$
Environmental Remediation/LSP	\$	-	\$	-	\$	-	\$	-	\$	-
Demolition & Site Clearance	\$	-	-	\$	-	\$	-	\$	-	\$
Owner's Proj. Mgr./Clerk of the Works	\$	-	\$	-	\$	-	\$	-	\$	-
Designer Services (Design Phase)	\$	5,499,250	\$	906,250	\$	3,242,188	\$	1,350,812	\$	-
Designer Services (ESDC)	\$	-	\$	-	\$	-	\$	-	\$	-
Construction	\$	86,486,141	-	\$	27,467,483	\$	47,345,593	\$	11,673,065	\$
Insurance (builder's risk, addtl. Policies)	\$	-	-	\$	-	\$	-	\$	-	\$
Furniture & Equipment (FFE)	\$	-	\$	-	\$	-	\$	-	\$	-
Police Details	\$	1,113,942	-	\$	186,540	\$	564,597	\$	362,805	\$
Contingency	\$	8,733,486	\$	2,746,748	\$	4,744,768	\$	1,241,970	\$	-
Other (Specify) Soft Cost Contingency	\$	-	-	\$	-	\$	-	\$	-	\$
Other (Specify)	\$	-	-	\$	-	\$	-	\$	-	\$
Total:	\$	101,832,819	\$	-	\$	31,307,021	\$	55,897,146	\$	14,628,652
Prior funding phases have been authorized through fund numbers 6411 (\$2,100,000, design) and 6420 (\$3,300,000, preconstruction services). \$2,500,000 federal omnibus grant awarded through the EPA \$10,000,000 ARPA funding allocated for FY24										
<b>Please provide suggested sources. This section will be finalized jointly by Finance and the Department.</b>										
Funding Sources:		Prior Years Funding	FY 23	FY 24	FY 25	FY26	FY 27			
Stabilization Fund	\$	-	\$	-	\$	-	\$	-	\$	-
GO Bonds - GF	\$	-	-						\$	-
GO Bonds - Sewer	\$	89,332,819	-	\$	31,307,021	\$	43,397,146	\$	14,628,652	\$
GO Bonds - Water			\$	-	\$	-	\$	-	\$	-
Retained Earnings	\$	-	\$	-	\$	-	\$	-	\$	-
General Fund	\$	-	\$	-	\$	-	\$	-	\$	-
Special Assmnt.	\$	-	-	\$	-	\$	-	\$	-	\$
Ch. 90	\$	-	\$	-	\$	-	\$	-	\$	-
Grants (Federal EPA Award)	\$	2,500,000	-	\$	-	\$	2,500,000	\$	-	\$
ARPA	\$	10,000,000	\$	-	\$	10,000,000	\$	-	\$	-
Other - existing GF Bonds	\$	-	\$	-	\$	-	\$	-	\$	-
Other - existing Sewer Bonds	\$	-	\$	-	\$	-	\$	-	\$	-
Other - existing Water Bonds	\$	-	\$	-	\$	-	\$	-	\$	-
Total:	\$	101,832,819	\$	-	\$	31,307,021	\$	55,897,146	\$	14,628,652
<b>Evaluation Committee Use Only:</b>										
Reviewed and Approved By:					Version					
Requesting Department				Date			Draft			
Auditing				Date			Revised			
Purchasing				Date			Accepted			
Final Approval										



CAPITAL IMROVEMENT PROJECT (CIP) REQUEST - FY23  
FORM A - DESIGN & CONSTRUCTION

Project Title:	Poplar Street Pump Station Project - Pump House & Facilities - IGMP 1		
Project Address:	10 Poplar Street		
Department:	IAM - Engineering		
Project Mgr.:	Jonathan Smith	Email:	<a href="mailto:jsmith@somervillema.gov">jsmith@somervillema.gov</a>
New Project or Modification:	Modification to Existing Project		

Department Priority:

Necessary

First

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:

Project includes ongoing design services and construction Interim Guaranteed Maximum Price #1 (IGMP) work packages under the CM@R procurement method; IGMP 1 consists of support of excavation, stormwater storage tank, soil excavation and disposal, pump house equipment, force main, site borings, and site preparation.

Justification:

The Pump Station will serve as a restoration of a century-old drainage pathway for the greater Union Square area, taking advantage of excess capacity in the GLX drainage system, redirecting stormwater flow from the MWRA system to a stormwater storage tank and 50MGD pump array designed to optimize the flood-reduction and I/I offset benefits of the GLX connection.

Relationship to Other Projects:

The Pump Station relates to the SAUSI project, Spring Hill Sewer Separation project and future system improvements, allowing for diversion of stormwater flows to the proposed facilities. The overall site development at 10 Poplar Street supports the longer term Brickbottom Vision Planning, serving as a community hub and transit-oriented public space.

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:

The Pump Station and associated facilities will improve the Water and Sewer Department’s management of catch basin grit, as well as serve as a nerve center for stormwater management through system monitoring equipment and infrastructure controls.

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 23	FY 24	FY 25	FY26	FY 27		
<b>Capital Costs:</b>									
Feasibility Study									
Land Acquisition/Appraisal	\$ -	-	-	-	-	-	-	-	-
Environmental Remediation/LSP	\$ -								
Demolition & Site Clearance	\$ -	-	-	-	-	-	-	-	-
Owner's Proj. Mgr./Clerk of the Works	\$ -								
Designer Services (Design Phase)	\$ 2,535,938		906,250	1,629,688					
Designer Services (ESDC)	\$ -							-	-
Construction	\$ 61,661,238	-	27,467,483	34,193,755				-	-
Insurance (builder's risk, addtl. Policies)	\$ -	-						-	-
Furniture & Equipment (FFE)	\$ -							-	-
Police Details	\$ 388,182	-	186,540	201,642				-	-
Contingency	\$ 6,166,123		2,746,748	3,419,375				-	-
Other (Specify) Soft Cost Contingency	\$ -	-						-	-
Other (Specify)	\$ -	-	-	-	-	-	-	-	-
Total:	\$ 70,751,481	\$ -	\$ 31,307,021	\$ 39,444,460	\$ -	\$ -	\$ -	\$ -	\$ -
Prior funding phases have been authorized through fund numbers 6411 (\$2,100,000, design) and 6420 (\$3,300,000, preconstruction services).									
<b>Please provide suggested sources. This section will be finalized jointly by Finance and the Department.</b>									
		Prior Years Funding	FY 23	FY 24	FY 25	FY26	FY 27		
<b>Funding Sources:</b>									
Stabilization Fund	\$ -								
GO Bonds - GF	\$ -	-	-					-	-
GO Bonds - Sewer	\$ 68,251,481	-	31,307,021	36,944,460		-		-	-
GO Bonds - Water								-	-
Retained Earnings	\$ -								
General Fund	\$ -								
Special Assmnt.	\$ -	-	-	-		-	-	-	-
Ch. 90	\$ -								
Grants	\$ 2,500,000	-		2,500,000		-	-	-	-
ARPA	\$ -								
Other - existing GF Bonds	\$ -					-	-	-	-
Other - existing Sewer Bonds	\$ -					-	-	-	-
Other - existing Water Bonds	\$ -					-	-	-	-
Total:	\$ 70,751,481	\$ -	\$ 31,307,021	\$ 39,444,460	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Evaluation Committee Use Only:</b>									
Reviewed and Approved By:							<b>Version</b>		
Requesting Department				Date			Draft		
Auditing				Date			Revised		
Purchasing				Date			Accepted		
				Final Approval					



CAPITAL IMROVEMENT PROJECT (CIP) REQUEST - FY23  
FORM A - DESIGN & CONSTRUCTION

Project Title:	Poplar Street Pump Station Project - Pump House & Facilities - IGMP 2		
Project Address:	10 Poplar Street		
Department:	IAM - Engineering		
Project Mgr.:	Jonathan Smith	Email:	<a href="mailto:jsmith@somervillema.gov">jsmith@somervillema.gov</a>
New Project or Modification:	Modification to Existing 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:**

Project includes ongoing design services and construction of Interim Guaranteed Maximum Price #2 (IGMP) work packages under the CM@R procurement method. IGMP 2 consists of the remainder of pump house construction and influent screening equipment. Project includes Consultant and Owners Project Manager construction administration services and CM@Risk services for construction including management of subcontractors, subbids, phasing of work, permitting, and procurement of work packages.

**Justification:**

The Pump Station will serve as a restoration of a century-old drainage pathway for the greater Union Square area, taking advantage of excess capacity in the GLX drainage system, redirecting stormwater flow from the MWRA system to a stormwater storage tank and 50MGD pump array designed to optimize the flood-reduction and I/I offset benefits of the GLX connection.

**Relationship to Other Projects:**

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**Category: Please check all appropriate boxes**

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

**Operational Impact:**

The Pump Station and associated facilities will improve the Water and Sewer Department’s management of catch basin grit, as well as serve as a nerve center for stormwater management through system monitoring equipment and infrastructure controls.

**What impact will this project have on operational costs?**

<input type="checkbox"/>	Reduce Cost (greater than 5%)
<input type="checkbox"/>	Reduce Cost (less than 5%)
<input type="checkbox"/>	Cost Unchanged
<input type="checkbox"/>	Increase Cost (less than 5%)
<input type="checkbox"/>	Increase Cost (greater than 5%)
<input checked="" type="checkbox"/>	



Design and Construction Project Funding									
Total Estimated Cost		Prior Years Funding	FY 23	FY 24	FY 25	FY26	FY 27		
<b>Capital Costs:</b>									
Feasibility Study									
Land Acquisition/Appraisal	\$ -	-	-	-	-	-	-	-	-
Environmental Remediation/LSP	\$ -								
Demolition & Site Clearance	\$ -	-	-	-	-	-	-	-	-
Owner's Proj. Mgr./Clerk of the Works	\$ -								
Designer Services (Design Phase)	\$ 2,963,312			1,612,500	1,350,812				
Designer Services (ESDC)	\$ -							-	-
Construction	\$ 24,824,903	-		13,151,838	11,673,065			-	-
Insurance (builder's risk, addtl. Policies)	\$ -	-						-	-
Furniture & Equipment (FFE)	\$ -							-	-
Police Details	\$ 725,760	-		362,955	362,805			-	-
Contingency	\$ 2,567,363			1,325,393	1,241,970			-	-
Other (Specify) Soft Cost Contingency	\$ -	-						-	-
Other (Specify)	\$ -	-	-	-	-			-	-
Total:	\$ 31,081,338	\$ -	\$ -	\$ 16,452,686	\$ 14,628,652	\$ -	\$ -		-
Prior funding phases have been authorized through fund numbers 6411 (\$2,100,000, design) and 6420 (\$3,300,000, preconstruction services).									
<b>Please provide suggested sources. This section will be finalized jointly by Finance and the Department.</b>									
		Prior Years Funding	FY 23	FY 24	FY 25	FY26	FY 27		
<b>Funding Sources:</b>									
Stabilization Fund	\$ -								
GO Bonds - GF	\$ -	-	-					-	-
GO Bonds - Sewer	\$ 21,081,338	-	-	6,452,686	14,628,652			-	-
GO Bonds - Water								-	-
Retained Earnings	\$ -								
General Fund	\$ -								
Special Assmnt.	\$ -	-	-	-	-	-	-	-	-
Ch. 90	\$ -								
Grants	\$ -	-	-	-	-	-	-	-	-
ARPA	\$ 10,000,000			10,000,000					
Other - existing GF Bonds	\$ -					-	-	-	-
Other - existing Sewer Bonds	\$ -					-	-	-	-
Other - existing Water Bonds	\$ -					-	-	-	-
Total:	\$ 31,081,338	\$ -	\$ -	\$ 16,452,686	\$ 14,628,652	\$ -	\$ -		-
<b>Evaluation Committee Use Only:</b>									
Reviewed and Approved By:							<b>Version</b>		
Requesting Department				Date			Draft		
Auditing				Date			Revised		
Purchasing				Date			Accepted		
				Final Approval					