



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

Project Title:

Project Address:

Department:

Project Mgr.:

New Project or Modification:

Sewer Separation 2 - Sewershed CA: Morrison Ave Linear Storage, Greater Davis Square Area Sewer Separation - Flood Relief + CSO Mitigation Enabling

Morrison Ave., greater Davis Square

IAM - Engineering

TBD

Email:

New 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:

Preliminary design of Sewershed CA: Morrison Ave Linear Storage, Greater Davis Square Area Sewer Separation. This will fund the initial preliminary design phase of the flood relief and combined sewer overflow mitigation project.

Justification:

Necessary sewer separation for flood relief in the Morrison Avenue and Davis Square area.

Relationship to Other Projects:

Subsequent authorizations will be required to fund final design, bidding, engineering services during construction, and construction. Sewer Separation Project 5 CSO Mitigation depends on the successful completion of this project.

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:

Please note any additional operational costs that may be the result of this project, e.g. the enlargement of a new building will require additional heating and cooling costs, additional custodial help, etc.

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) | \$ | 2,000,000 | | \$2,000,000 | | | | | |
| Construction | \$ | - | - | | | | | | |
| Insurance (builder's risk, addtl. Polices) | \$ | - | - | | | | | | |
| Furniture & Equipment (FFE) | \$ | - | | | | | | | |
| Police Details | \$ | - | - | | | | | | |
| Contingency | \$ | - | | | | | | | |
| Other (Specify) | \$ | - | - | - | - | - | - | - | - |
| Other (Specify) | \$ | - | - | - | - | - | - | - | - |
| Total: | \$ | 2,000,000 | \$ - | \$ - | \$ 2,000,000 | \$ - | \$ - | \$ - | - |
| Note: All values in CY2022\$ | | | | | | | | | |
| Please provide suggested sources. This section will be finalized jointly by Finance and the Department. | | | | | | | | | |
| | | Prior Years Funding | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 | | |
| Funding Sources: | | | | | | | | | |
| Stabilization Fund | \$ | - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| GO Bonds | \$ | 2,000,000 | - | \$2,000,000 | | | | - | - |
| Retained Earnings | \$ | - | | | | | | | |
| General Fund | \$ | - | | | | | | | |
| Special Assmnt. | \$ | - | - | - | - | - | - | - | - |
| Ch. 90 | \$ | - | | | | | | | |
| Grants | \$ | - | - | - | - | - | - | - | - |
| Receipts Reserved | \$ | - | | | | | | | |
| Pay-Go | \$ | - | - | - | | | | - | - |
| Other (Specify) | \$ | - | - | - | - | - | - | - | - |
| Total: | \$ | 2,000,000 | \$ - | \$ - | \$ 2,000,000 | \$ - | \$ - | \$ - | - |
| Evaluation Committee Use Only: | | | | | | | | | |
| Reviewed and Approved By: | | | | | | | | | |
| Requesting Department | | | | Date | | | Version | | |
| Auditing | | | | Date | | | Draft | | |
| Purchasing | | | | Date | | | Revised | | |
| | | | | Final Approval | | | Accepted | | |



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

| | | | |
|-------------------------------------|--------------------|---------------|--|
| Project Title: | Sewer Separation 2 | | |
| Project Address: | TBD | | |
| Department: | IAM - Engineering | | |
| Project Mgr.: | TBD | Email: | |
| New Project or Modification: | New 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:

Justification:

Relationship to Other Projects:

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:

Please note any additional operational costs that may be the result of this project, e.g. the enlargement of a new building will require additional heating and cooling costs, additional custodial help, etc.

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) | \$ | 9,683,333 | | 2,566,667 | 3,476,667 | 1,820,000 | 1,820,000 | | |
| Construction | \$ | 35,000,000 | - | - | 5,000,000 | 15,000,000 | 15,000,000 | | |
| Insurance (builder's risk, addtl. Polices) | \$ | - | - | | - | - | - | - | - |
| Furniture & Equipment (FFE) | \$ | - | | | | | | | |
| Police Details | \$ | - | - | - | - | - | - | - | - |
| Contingency | \$ | 7,000,000 | | | 1,000,000 | 3,000,000 | 3,000,000 | | |
| Other (Specify) | \$ | - | - | - | - | - | - | - | - |
| Other (Specify) | \$ | - | - | - | - | - | - | - | - |
| Total: | \$ | 51,683,333 | \$ - | \$ - | \$ 2,566,667 | \$ 9,476,667 | \$ 19,820,000 | \$ 19,820,000 | |
| Please describe how you developed these cost estimates. Include references to any supporting appraisals, studies, or other relevant background information that bolsters the cost estimates. How long is tge estimate valid? Have you retained the services of an independent cost estimator? | | | | | | | | | |
| Please provide suggested sources. This section will be finalized jointly by Finance and the Department. | | | | | | | | | |
| | | Prior Years Funding | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 | | |
| Funding Sources: | | | | | | | | | |
| Stabilization Fund | \$ | - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | |
| GO Bonds | \$ | 51,683,333 | - | - | 2,566,667 | 9,476,667 | 19,820,000 | 19,820,000 | |
| Retained Earnings | \$ | - | | | | | | | |
| General Fund | \$ | - | | | | | | | |
| Special Assmnt. | \$ | - | - | - | - | - | - | - | - |
| Ch. 90 | \$ | - | | | | | | | |
| Grants | \$ | - | - | - | - | - | - | - | - |
| Receipts Reserved | \$ | - | | | | | | | |
| Other (Specify) | \$ | - | - | - | - | - | - | - | - |
| Other (Specify) | \$ | - | - | - | - | - | - | - | - |
| Total: | \$ | 51,683,333 | \$ - | \$ - | \$ 2,566,667 | \$ 9,476,667 | \$ 19,820,000 | \$ 19,820,000 | |
| Evaluation Committee Use Only: | | | | | | | | | |
| Reviewed and Approved By: | | | | | | | | | |
| Requesting Department | | | | Date | | | Version | | |
| Auditing | | | | Date | | | Draft | | |
| Purchasing | | | | Date | | | Revised | | |
| | | | | Final Approval | | | | | |

| | | | | | | | | | |
|-----------------------------------|-----------------------------|-------------|------|--------------|------------------------|-------------------------|--------------|-------------|--|
| Project Name | Sewer Separation 2 | | | | Project Manager | Haleemah Qureshi | | | |
| Project Funding by Phase | Prior Years Spending | FY21 | | FY22 | | FY23 | | FY24 | |
| Feasibility Study | | | | | | | | | |
| Land Acquisition/Appraisal | | | | | | | | | |
| Environmental Remediation/LSP | | | | | | | | | |
| Demolition & Site Clearance | | | | | | | | | |
| OPM | | | | | | | | | |
| Designer Services (SD through CA) | | | | \$ 2,566,667 | | \$ 3,476,667 | | | |
| Construction | | | | | | \$ 5,000,000 | | | |
| Insurance | | | | | | | | | |
| Furniture & Equipment | | | | | | | | | |
| Police Details | | | | | | | | | |
| Contingency | | | | | | \$ 1,000,000 | | | |
| Other (Specify) | | | | | | | | | |
| Other (Specify) | | | | | | | | | |
| Total | | \$ - | \$ - | \$ - | \$ - | \$ 2,566,667 | \$ 9,476,667 | | |

| Project Funding by Source | Prior Years Spending | FY21 | | FY22 | | FY23 | | FY24 | |
|-------------------------------|----------------------|------|---|------|---|------|-----------|------|-----------|
| GO Bonds | | \$ | - | \$ | - | \$ | 2,566,667 | \$ | 9,476,667 |
| Stabilization Fund | | | | | | | | | |
| Retained Earnings | | | | | | | | | |
| General Fund Operating Budget | | | | | | | | | |
| Special Assessment | | | | | | | | | |
| Chapter 90 | | | | | | | | | |
| Grants | | | | | | | | | |
| Receipts Reserved | | | | | | | | | |
| Other (Specify) | | | | | | | | | |
| Other (Specify) | | | | | | | | | |
| | | \$ | - | \$ | - | \$ | 2,566,667 | \$ | 9,476,667 |

| FY25 | | FY26 | | FY27 | | FY28 | | FY29 | | FY30 | Subtotal |
|------------------|------------------|------|------|------|------|------|------|------|------|---------------|---------------|
| | | | | | | | | | | | \$ - |
| | | | | | | | | | | | \$ - |
| | | | | | | | | | | | \$ - |
| | | | | | | | | | | | \$ - |
| | | | | | | | | | | | \$ - |
| \$ 1,820,000.00 | \$ 1,820,000.00 | | | | | | | | | | \$ 9,683,333 |
| \$ 15,000,000.00 | \$ 15,000,000.00 | | | | | | | | | | \$ 35,000,000 |
| | | | | | | | | | | | \$ - |
| | | | | | | | | | | | \$ - |
| | | | | | | | | | | | \$ - |
| \$ 3,000,000.00 | \$ 3,000,000.00 | | | | | | | | | | \$ 7,000,000 |
| | | | | | | | | | | | \$ - |
| | | | | | | | | | | | \$ - |
| \$ 19,820,000 | \$ 19,820,000 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 51,683,333 | |

| FY25 | | FY26 | | FY27 | | FY28 | | FY29 | | FY30 | Subtotal | |
|------|------------|------|------------|------|---|------|---|------|---|------|------------|---|
| \$ | 19,820,000 | \$ | 19,820,000 | \$ | - | \$ | - | \$ | - | \$ | 51,683,333 | |
| | | | | | | | | | | | \$ | - |
| | | | | | | | | | | | \$ | - |
| | | | | | | | | | | | \$ | - |
| | | | | | | | | | | | \$ | - |
| | | | | | | | | | | | \$ | - |
| | | | | | | | | | | | \$ | - |
| | | | | | | | | | | | \$ | - |
| | | | | | | | | | | | \$ | - |
| | | | | | | | | | | | \$ | - |
| | | | | | | | | | | | \$ | - |
| \$ | 19,820,000 | \$ | 19,820,000 | \$ | - | \$ | - | \$ | - | \$ | 51,683,333 | |

| | | |
|------------------|-----------------|--------|
| \$ 35,000,000.00 | \$ 4,550,000.00 | ESDC |
| \$3.5M Design | \$ 3,850,000.00 | Design |

Sewer Enterprise CIP Cash Flow

Rate planning for FY20, 21 & 22 were based on generic "Sewer Separation Projects 1, 2 & 3" This preliminary

| | Source | Total | 2023 | 2024 | 2025 | 2026 |
|---|--------|---------------------|--------------------|--------------------|--------------------|--------------------|
| Project 1 - Sewershed S2: New Mystic River Outfall, Foss Park Area Sewer Separation - Flood Relief + C | | | | | | |
| Preliminary Design | Pay-Go | \$1,500,000 | \$1,000,000 | \$500,000 | | |
| Final Design & Bidding | Bond | \$2,000,000 | | \$1,000,000 | \$1,000,000 | |
| ESDC | Bond | \$3,000,000 | | | | \$1,000,000 |
| Construction | Bond | \$22,500,000 | | | | \$7,500,000 |
| Total | | \$29,000,000 | \$1,000,000 | \$1,500,000 | \$1,000,000 | \$8,500,000 |

| | | | | | | |
|--|--------|---------------------|--------------------|--------------------|---------------------|---------------------|
| Project 2 - Sewershed CA: Morrison Ave Linear Storage, Greater Davis Square Area Sewer Separation - | | | | | | |
| Preliminary Design | Pay-Go | \$2,000,000 | \$2,000,000 | | | |
| Final Design & Bidding | Bond | \$2,500,000 | | \$2,500,000 | | |
| ESDC | Bond | \$4,500,000 | | | \$1,500,000 | \$1,500,000 |
| Construction | Bond | \$36,000,000 | | | \$12,000,000 | \$12,000,000 |
| Total | | \$45,000,000 | \$2,000,000 | \$2,500,000 | \$13,500,000 | \$13,500,000 |

| | | | | | | |
|--|--------|---------------------|------------|------------|------------|--------------------|
| Project 3 - Sewershed C2: Dane & Lake Street Area Improvements (Note: Poplar Street is a precursor) - | | | | | | |
| Preliminary Design | Pay-Go | \$1,500,000 | | | | \$1,500,000 |
| Final Design & Bidding | Bond | \$1,900,000 | | | | |
| ESDC | Bond | \$3,600,000 | | | | |
| Construction | Bond | \$27,000,000 | | | | |
| Total | | \$34,000,000 | \$0 | \$0 | \$0 | \$1,500,000 |

| | | | | | | |
|---|--------|---------------------|------------|--------------------|--------------------|--------------------|
| Project 4 - Sewershed S2: Gilman Square Improvements Phase 1 (Project 1 is a precursor) - Flood Relief | | | | | | |
| Preliminary Design | Pay-Go | \$3,000,000 | | \$1,500,000 | \$1,500,000 | |
| Final Design & Bidding | Bond | \$3,000,000 | | | | \$1,500,000 |
| ESDC | Bond | \$8,000,000 | | | | |
| Construction | Bond | \$60,000,000 | | | | |
| Total | | \$74,000,000 | \$0 | \$1,500,000 | \$1,500,000 | \$1,500,000 |

| | | | | | | |
|--|--------|---------------------|------------|------------|------------|------------|
| Project 5 - Sewershed CA: CSO Mitigation TBD (Project 2 is a precursor) - CSO Mitigation + Flood Relief | | | | | | |
| Preliminary Design | Pay-Go | \$2,000,000 | | | | |
| Final Design & Bidding | Bond | \$2,500,000 | | | | |
| ESDC | Bond | \$4,500,000 | | | | |
| Construction | Bond | \$36,000,000 | | | | |
| Total | | \$45,000,000 | \$0 | \$0 | \$0 | \$0 |

| | | | | | | |
|---|--------|---------------------|------------|------------|------------|------------|
| Project 6 - Sewershed S2: Gilman Square Improvements Phase 2 (Project 4 is a precursor) - Flood Relief | | | | | | |
| Preliminary Design | Pay-Go | \$3,000,000 | | | | |
| Final Design & Bidding | Bond | \$3,000,000 | | | | |
| ESDC | Bond | \$8,000,000 | | | | |
| Construction | Bond | \$60,000,000 | | | | |
| Total | | \$74,000,000 | \$0 | \$0 | \$0 | \$0 |

Note: All values in CY2022\$

ary plan replaces those for the purposes of FY23 rate planning

| Fiscal Year | | | | | | | |
|------------------------|------|------|------|------|------|------|------|
| 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 |
| SO Mitigation Enabling | | | | | | | |

| | | | | | | | |
|-------------|-------------|--|--|--|--|--|--|
| | | | | | | | |
| \$1,000,000 | \$1,000,000 | | | | | | |
| \$7,500,000 | \$7,500,000 | | | | | | |
| \$8,500,000 | \$8,500,000 | | | | | | |

Flood Relief + CSO Mitigation Enabling

| | | | | | | | |
|--------------|--|--|--|--|--|--|--|
| | | | | | | | |
| \$1,500,000 | | | | | | | |
| \$12,000,000 | | | | | | | |
| \$13,500,000 | | | | | | | |

Flood Relief

| | | | | | | | |
|-------------|--------------|--------------|--------------|--|--|--|--|
| | | | | | | | |
| \$1,900,000 | | | | | | | |
| | \$1,200,000 | \$1,200,000 | \$1,200,000 | | | | |
| | \$9,000,000 | \$9,000,000 | \$9,000,000 | | | | |
| \$1,900,000 | \$10,200,000 | \$10,200,000 | \$10,200,000 | | | | |

| | | | | | | | |
|-------------|--------------|--------------|--------------|--------------|--|--|--|
| | | | | | | | |
| \$1,500,000 | | | | | | | |
| | \$2,000,000 | \$2,000,000 | \$2,000,000 | \$2,000,000 | | | |
| | \$15,000,000 | \$15,000,000 | \$15,000,000 | \$15,000,000 | | | |
| \$1,500,000 | \$17,000,000 | \$17,000,000 | \$17,000,000 | \$17,000,000 | | | |

| | | | | | | | |
|-------------|-------------|--------------|--------------|--------------|--|--|--|
| | | | | | | | |
| \$2,000,000 | | | | | | | |
| | \$2,500,000 | | | | | | |
| | | \$1,500,000 | \$1,500,000 | \$1,500,000 | | | |
| | | \$12,000,000 | \$12,000,000 | \$12,000,000 | | | |
| \$2,000,000 | \$2,500,000 | \$13,500,000 | \$13,500,000 | \$13,500,000 | | | |

| | | | | | | | |
|-----|-----|-------------|-------------|-------------|-------------|--------------|--------------|
| | | | | | | | |
| | | \$1,500,000 | \$1,500,000 | | | | |
| | | | | \$1,500,000 | \$1,500,000 | | |
| | | | | | | \$2,000,000 | \$2,000,000 |
| | | | | | | \$15,000,000 | \$15,000,000 |
| \$0 | \$0 | \$1,500,000 | \$1,500,000 | \$1,500,000 | \$1,500,000 | \$17,000,000 | \$17,000,000 |

| 2035 | 2036 |
|------|------|
| | |

\$2,000,000 \$2,000,000
\$15,000,000 \$15,000,000
\$17,000,000 \$17,000,000