



**DATE:** October 11, 2022

**TO:** Mayor and City Council

**FROM:** Director of Public Works

**SUBJECT:** Adopt a Resolution Approving Addendums No. 1, No. 2, and No. 3, Accepting the Bid Protest, and Awarding a Contract to Blocka Construction, Inc., for the Water Pollution Control Facility Switchgear Rehabilitation Project No. 07656, in an Amount Not-to Exceed \$13,169,800, and Appropriating Additional Funds in the Amount of \$2,669,635

## **RECOMMENDATION**

That Council adopts the attached resolution (Attachment II):

1. Approving Addendums No. 1, No. 2, and No. 3, providing minor revisions to the project plans and specifications, accepting the bid protest of Mountain Cascade, Inc. (Mountain Cascade), and awarding a contract to Blocka Construction, Inc. (Blocka) for the Water Pollution Control Facility (WPCF) Switchgear Rehabilitation Project No. 07656, in an amount not-to-exceed \$13,169,800; and
2. Appropriating additional funds in the amount of \$2,669,635 from the Sewer System Replacement Fund (Fund 611).

## **SUMMARY**

The WPCF treats an annual average flow of approximately eleven million gallons per day (MGD) and meets current requirements to discharge treated effluent to the deep waters of the San Francisco Bay. Originally installed in 1982, the existing main switchgear (MSB), is a key component of the power distribution system at the WPCF. The MSB along with several related 480-volt motor control centers (MCCs) and 480-volt distribution panelboards have provided power and controls to vital plant facilities for nearly forty years. These include the headworks screening and pumping facilities, grit and scum removal through the vacuators, the primary treatment process, the secondary treatment process (west trickling filter), the anerobic digesters, the fats, oils and grease (FOG) receiving station, the site waste pump station, site lighting, and various buildings including the Operations Control House and the Administration Building. Concern over continued reliability of the switchgear due to obsolescence and

availability of parts, as well as the current condition and continued deterioration from corrosive atmospheres, prompted staff to request that the electrical system be evaluated as part of the WPCF Phase II Facilities Plan. The Phase II Facilities Plan, completed in June of 2020, serves as a comprehensive planning document for the WPCF infrastructure needs for the next twenty-five years. An evaluation of the Old Cogeneration Building housing the switchgear, as well as the switchgear itself was performed as part of the planning effort. The evaluation recommended replacing the existing MSB, several existing aged MCCs, and an existing 12-kV to 480-volt transformer that is severely corroded and at risk of failure, as well as retrofitting the existing old Cogeneration Building to house the new electrical equipment.

On August 30, 2022, three (3) bids were received, ranging from \$9,936,440 to \$11,452,000. Anvil Builders, Inc. (Anvil) submitted the low bid of \$9,936,440, which was 18.6% below the Engineer's estimate of \$12,200,000. Mountain Cascade submitted the second low bid of \$10,345,136. Blocka submitted the third lowest bid of \$11,452,000.

On September 6, 2022, a bid protest was submitted by Mountain Cascade alleging that the low bidder did not demonstrate the required experience and qualifications for the electrical subcontractor required by the project specifications. Upon review of the bids, staff determined that bids submitted by Anvil and Mountain Cascade were both non-responsive because both contractors failed to demonstrate the required project experience. Therefore, staff recommends that the construction contract be awarded to the lowest responsive and responsible bidder, Blocka.

Staff is requesting Council's approval of Addendums No. 1, No. 2, and No. 3, which provided minor revisions to clarify the plans and specifications and awarding the construction contract to the lowest responsive and responsible bidder, Blocka, in the amount not-to-exceed \$13,169,800, including Administrative Change Orders.

Furthermore, staff is requesting appropriation of additional funds in the amount of \$2,669,635 from the Sewer System Replacement Fund (Fund 611).

This project is categorically exempt from environmental review under Section 15301(c) of the California Environmental Quality Act (CEQA) Guidelines for the operation, repair, maintenance, or minor alteration of existing facilities.

## **BACKGROUND**

The WPCF collects and treats wastewater from the City's residents and businesses. The original WPCF 480-volt MSB was designed to power the entire WPCF at the time of its construction and was connected directly to two cogeneration engines that satisfied part of the plant demand, and a standby generator as a backup power supply to PG&E. In 2008, the Phase 1 WPCF upgrade project was completed that included a new electrical service entrance from PG&E, a new 12-kV switchgear building, a 12-kV power grid, several 12-kV substations to distribute power around the plant, and a new standby diesel generator. The

electrical system upgrades were largely constructed to serve new loads added as part of the Phase 1 project and other than sub-feeding the power from the new 12-kV switchgear to the MSB, did not include improvements to the plant's existing 480-volt power distribution system. In 2014, a new 1,132 kW cogeneration engine was commissioned as part of the Cogeneration Upgrade Project, and the old cogeneration engines that previously supplied power to the plant through the MSB were decommissioned. The MSB continues to supply power to many vital loads throughout the plant including the headworks, north and south vacuators, the primary treatment process, the west trickling filter, the anaerobic digesters, the site waste pump station, the fats, oils and grease (FOG) receiving station, and various buildings and site lighting.

On February 27, 2018<sup>1</sup>, Council authorized a professional services agreement (PSA) with Black and Veatch to prepare the WPCF Phase II Facilities Plan that serves as a comprehensive planning document for the WPCF infrastructure needs for the next twenty-five years. An evaluation of the MSB and the old cogeneration facility was performed as part of the planning effort. The Facilities Plan recommended replacing the existing MSB, several related motor control centers and distribution panel boards, a 12-kV to 480-volt transformer, and related electrical equipment, along with retrofitting the building to house the new electrical equipment.

On May 18, 2021<sup>2</sup>, Council authorized a PSA with Carollo Engineers to perform final design services for the WPCF Switchgear Rehabilitation Project. The scope of work included preliminary and final design services of the switchgear and other related improvements.

## PROJECT SCOPE

The recommendations from the Phase II Facilities Plan are to replace the plant's existing MSB, several MCCs and distribution panelboards, and related equipment. The existing electrical equipment, installed in 1982, have exceeded their useful lives. In addition, staff have difficulty procuring replacement parts, as the parts are no longer produced for equipment this old. The existing MSB is at risk of failure due to long-term exposure to hydrogen sulfide and the resulting corrosion of its copper bussing. Replacement is needed for continued operational reliability of the WPCF and many of its essential processes.

The project includes the following components:

- Main Switchgear (MSB): The MSB was installed in 1982, and at forty years in service has exceeded its useful life. Staff have difficulty procuring replacement parts since they are obsolete and no longer being produced. In 2006, an assessment of the existing MSB equipment was performed by Terada Engineering, Inc., which recommended replacement of switchgear components due to component

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<sup>1</sup> <https://hayward.legistar.com/LegislationDetail.aspx?ID=3354003&GUID=015931F3-41B1-45E5-8345-F8440FF11A26&Options=&Search=>

<sup>2</sup> <https://hayward.legistar.com/LegislationDetail.aspx?ID=4955268&GUID=821E06AC-AAAD-450F-8B45-0A98D661D498&Options=&Search=>

obsolescence. This assessment also noted that the switchgear was housed within a room that was subjected to significant levels of hydrogen sulfide due to its proximity to the East Barminutor Structure where two of the City's main sewer lines converge. In 2020, as part of the WPCF Phase II Facilities Plan, an evaluation was completed that confirmed the previous findings that recommended replacing the MSB.

- Motor Control Centers (MCCs): Several of the existing motor control centers (MCCs) powered by the MSB were evaluated and recommended for replacement due to their age and obsolescence. These MCCs were installed at the same time the MSB (1982) and are also at the end of their useful life. These include the obsolete MCC-5B which primarily includes breakers and starters associated with the old, decommissioned cogeneration equipment, MCC-5A which supplies equipment located in the boiler room, several obsolete pump control panels serving the flow equalization return pumps. In addition, a nearby outdoor MCC (MCC-19) is in extremely poor condition due to proximity to the primary clarifiers (a corrosive environment) and is slated for demolition. MCC-19 contains several starters for the West Trickling Filter ventilation system that are still in service, as well as obsolete equipment that is no longer in service. These existing breakers and starters from MCC-5A, 5b, and 19 will be housed in a new MCC panel located adjacent to the new MSB. In addition, the existing supervisory control and data acquisition (SCADA) / remote telemetry unit (RTU) cabinet located inside the electrical switchgear room will be replaced with a new programmable logic controller (PLC) cabinet to serve equipment housed in both the MSB and new MCC.

The Site Waste Pump Station (SWPS) currently houses MCC-2A and 2B which were also installed in 1982 and have reached the end of its useful life. A new replacement MCC and PLC panel is included. MCC-2A and 2B provide power and control to many essential plant process areas including primary treatment, site waste pumping, and anerobic digestion. Replacement is needed for continued reliability of the WPCF operations.

- Site Waste Pump Station Operation Control House: In addition to replacing MCC-2A and 2B and the control panels from the Operation Control House, the project will also update the operation's office and laboratory with new HVAC equipment, flooring, and restroom renovations.
- Old Cogeneration Building Improvements: In addition to replacing the MSB and MCCs, the Phase II Facilities Plan recommended retrofitting the existing Old Cogeneration Building to provide the required architectural and environmental improvements needed to house the new electrical equipment. The improvements include removing unused equipment formerly associated with the cogeneration system from the roof of the building, sealing openings in the roof and floor associated with the engines and associated piping, installing new roofing, replacing existing louvers with aluminum infill panels, adding interior and exterior finishes,

and replacing the heating, ventilation, and air conditioning (HVAC) equipment. In addition, an exterior stairwell will be installed to provide safe roof access for maintaining the new HVAC equipment. These improvements will seal the building from adjacent corrosive environments and will result in an interior environment that is suitable for housing this type of critical electrical infrastructure.

- Transformer: As noted above, the building is currently designed in an open louvered and ventilated structure which has resulted in extensive corrosion of the copper components within the electrical enclosure, and corrosion to an elevated copper bus duct and surrounding structure associated with transformer located outside the building. A new transformer is included to replace the existing corroded unit as well as new cable trays that will replace the existing elevated bus duct. In addition, the grating that currently covers the existing East Barminutor Structure will be replaced with a solid cover and is expected to result in a less corrosive atmosphere surrounding the new transformer.
- Panelboard Replacement: The project includes removing obsolete and unreliable control panels and equipment and installing new 480V panelboards at the South Vacuator, Air Compressor Building, and Maintenance Building. These improvements will provide safe and reliable power sources to the WPCF as well as clean up and remove outdated electrical systems.
- Programmable Logic Controller (PLC) Installation: The existing remote monitoring units (RMU), RMU-1 inside the Operations Control House, and RMU-8, inside the electrical switchgear room, will be replaced with new PLC cabinets because of their obsolescence and significant amount of field wiring in poor condition. The new PLC cabinets and all connected equipment require updated SCADA programming, which will be performed by a third-party programmer.
- Headworks Facility: The existing screenings conveyor at the Headworks Facility is currently powered by the single fed “A” side off MCC-7, which raises operational challenges when the “A” side of the MCC is shut off for maintenance work. The bar screens are fed from both the “A” and “B” side of the MCC. If the “A” side of the MCC is shut off, operations must divert the screenings from the conveyor via a discharge chute on the back side of the bar screens to portable rolling trash bins. The footprint of the Headworks building is very constricted, rendering it difficult to continually swap out the trash bins to keep the Headworks operational. The project includes an addition of a transfer switch to allow the screenings conveyor to be powered from either the “A” or “B” sides of the MCC, which will enable continuous operation of the screenings conveyor and Headworks facility.

## DISCUSSION

On July 5, 2022<sup>3</sup>, Council approved the plans and specifications for the project and called for bids to be received on August 16, 2022. Addendum No. 1 postponed the bid opening to August 30, 2022, due to requests from contractors citing the complexity of the project.

On August 30, 2022, three (3) bids were received, ranging from \$9,936,440 to \$11,452,000. Anvil Builders, Inc. (Anvil) submitted the low bid of \$9,936,440, which was 18.6% below the Engineer's estimate of \$12,200,000. Mountain Cascade submitted the second lowest bid of \$10,345,136. Blocka submitted the third bid of \$11,452,000, which was 6.1% below the Engineer's estimate. The average of the three (3) bids received is \$10,577,859 which is approximately 13% below the Engineer's estimate.

The bids submitted by Anvil and Mountain Cascade were determined to be non-responsive because both contractors failed to demonstrate completion of three (3) construction contracts completed during the previous three (3) years (for the general contractor) and ten (10) years for the electrical subcontractor involving work of similar type and comparable value to the Switchgear Project. Therefore, staff recommends that the construction contract be awarded to the lowest responsive and responsible bidder, Blocka. It is of note that despite Blocka being the third lowest bidder, their bid amount was still \$748,000, or 6.1%, below the Engineer's estimate of \$12,200,000.

Staff is requesting an additional \$1,717,800 (or 15% of the bid amount) be awarded for administrative change order contingency to cover unforeseen conditions and changes during construction. Given the extraordinary complexity of construction sequencing required to replace existing electrical infrastructure for plant processes that must remain online at all times except for short shutdown durations, unforeseen nature of underground work, and extensive modifications to existing electrical infrastructure, an administrative change order budget of 15% of the bid amount is requested to cover unforeseen conditions. Therefore, the contract limit requested is \$13,169,800, including administrative change orders.

### BID PROTEST BY MOUNTAIN CASCADE, INC.

On September 6, 2022 as staff were in the process of reviewing the bids, Mountain Cascade submitted a bid protest letter requesting the City reject the bid submitted by Anvil on the grounds that Anvil failed to furnish with the bid project references demonstrating qualifications and experience of the electrical subcontractor (Anvil Power, Inc.). Proposal sheet P-17 of the Project Specifications requires that the electrical subcontractor have a minimum of three (3) construction contracts completed during the last ten (10) years involving work of similar type and comparable value to the Switchgear Rehabilitation Project on the bid forms. Mountain Cascade claimed:

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<sup>3</sup> <https://hayward.legistar.com/LegislationDetail.aspx?ID=5714856&GUID=3E20B494-917A-4507-8AAC-C2DF43A17512&Options=&Search=>

- Anvil Builders did not correctly provide the contract amount performed by the subcontractor (Anvil Power, Inc.) on the bid forms, and that they incorrectly misrepresented their projects to be of comparable value to the electrical scope of work on the project.
- Anvil Power's project descriptions did not represent work of similar type and value to the Switchgear Rehabilitation Project.
- One of the three projects listed was not completed as certified and is therefore not a qualifying project.
- Anvil Builders is using its unqualified subcontractor without the requisite experience required by the Contract.
- Anvil Builders did not list all the subcontractors and suppliers as required on the bid form.

#### ANVIL BUILDERS, INC.'S RESPONSE TO THE BID PROTEST

Anvil's response to Mountain Cascade's claims is summarized as follows:

- For projects where Anvil Builders and Anvil Power were teamed up, they listed the contract amount (i.e., the contract amount between the general contractor and owner, and not the contract amount of the electrical subcontract portion of the work).
- For one project that was not completed yet, Anvil listed the electrical subcontract amount because the electrical portion of that project was "substantially complete."
- Where project descriptions provided are not "apparently of similar work", Anvil states that the project descriptions were provided "exactly as originally provided in the Notice to Bidders for each individual project and provides a full picture of what each project entailed as they are both ABI and API projects."
- Anvil states that a project (WETA Ferry Terminal) listed by Mountain Cascade presents similar issues in not being a project of similar type of work or value to the Switchgear Rehabilitation Project.
- Anvil refutes the allegation that Anvil Power Inc. is not qualified and that by self-performing the electrical work in-house is able to choose a more experienced team rather than the low bidder on bid day.
- Anvil refutes not listing all subcontractors and suppliers, as suppliers are not required to be listed unless being listed for DBE or WBE purposes.

#### CITY STAFF REVIEW OF ALL THREE BIDS AND RESPONSE TO THE BID PROTEST

Staff reviewed the bid forms submitted by all three bidders and determined that neither Anvil Builders' subcontractor (Anvil Power Inc.), nor Mountain Cascade's subcontractor (Con J. Franke) electrical project references amount to three (3) projects of similar type and comparable value, and therefore are not responsive to the project's requirements.

The project description provided in the Notice to Contractors reads: "Construction of the Switchgear Rehabilitation Project at the City of Hayward Water Pollution Control Facility.

Work involves replacement of a 480-volt electrical switchgear; replacement of several existing 480-volt motor control centers (MCCs), replacement of a 12 kV to 480-volt transformer, and other related improvements.” In addition, Section 01110 Summary of Work outlines similar project elements and includes replacement of electrical panelboards distributed around the WPCF site. Finally, Section 16100 Electrical Requirements Paragraph 1.01 C. provides an overview of the electrical work that includes the same major project elements listed above. Due to the highly specialized nature of the electrical retrofits required on this project, the electrical subcontractor is required to have a C-10 license.

Anvil’s electrical subcontractor’s (Anvil Power) references did not include any of the items noted above including installation of electrical switchgear, transformers, or MCCs. Anvil Builders states they provided work descriptions that are “exactly as originally provided in the Notice to Bidders for each individual project” rather than descriptions for work performed specifically by the electrical subcontractor, Anvil Power Inc. The “Qualifications and Experience of Electrical Subcontractor” bid form was provided for the bidder to list description of work performed to demonstrate experience and qualifications of the electrical subcontractor on projects of similar type and comparable value to the Switchgear Rehabilitation Project. Anvil had the same opportunity to expand on the features of reference projects to demonstrate their qualifications. Upon review of the information provided, staff do not find the projects listed to be similar in scope.

Anvil Builders lists the value of the electrical work performed by Anvil Power Inc., in the list of subcontractors at \$1,220,000 for work described as “Electrical partial labor only.” Therefore, the City assumes that Anvil Builders Inc., plans to self-perform the bulk of the electrical work. Anvil Builders is in possession of a Class C-10 license which is required to perform the electrical work. Therefore, staff reviewed the “Qualifications and Experience of General Contractor” provided by Anvil Builders for similar project elements listed in the project description on the Notice to Contractors. Two of the projects do not describe any electrical work being performed by Anvil Builders, and the third project (UN Plaza Water Storage and Distribution) mentions “electrical and controls” and “electrical power provision” in the project description, but no other project elements are listed that demonstrate the project to be similar in scope to the Switchgear Rehabilitation Project. Furthermore, project references are required to be provided for projects that have been completed. Substantial completion is not considered complete as portions of work can be accepted for substantial completion when turned over to an owner for beneficial use well ahead of when a project is complete. Substantial completion is not considered the same as a project being completed. Therefore, Anvil Builder’s bid was determined to be non-responsive.

Staff also reviewed the second lowest bidder’s (Mountain Cascade) Qualifications and Experience of Electrical Subcontractor bid forms. Mountain Cascade’s electrical subcontractor, Con J. Franke, provided two project references that included similar elements (MCCs, PLC & SCADA upgrades, lighting upgrades, installation of a transformer). One of the project references provided (Western Emergency Transportation - WETA Ferry



Terminal (Design Build)) had no similar elements to the Switchgear Rehabilitation Project. Further, Con J. Franke did not list replacement of switchgear in any of their project references which is a key component to the Switchgear Rehabilitation Project. Finally, staff reviewed Con J. Franke's contract amount for comparable value to the Switchgear Rehabilitation Project. Con J. Franke's reference projects (between \$2.5 million and \$3.2 million) represent 55% or less of the electrical subcontract amount included on the bid form (\$5.8 million), and are not considered of comparable value.

Staff also reviewed Mountain Cascades Qualifications and Experience of General Contractor bid forms and did not find the projects to be similar in scope. Therefore, Mountain Cascade's bid was determined to be non-responsive.

Blocka's references included installation of a 12 kv substation, MCCs, panelboards, transformers, switchgear, and a medium voltage transformer demonstrating prior experience that is consistent with the project description outlined in the Notice to Contractors. Blocka provided project references with contract amounts of \$13.3, \$11.6, and \$8.6 million which are of comparable value to the Switchgear Rehabilitation Project electrical scope. Therefore, Blocka was determined to be a responsive bidder.

Staff reviewed Blocka's qualifications and experience supplied in their proposal package. Blocka has both a Class A General Engineering Contractor license and a C-10 Electrical Contractor License, and therefore submitted the same project references for both the general contractor and electrical subcontractor forms. Staff noted that Blocka inserted Sheet P-17 from Addendum 2, "Qualifications and Experience of Electrical Subcontractor" in lieu of sheet P-13, "Qualifications and Experience of Generation Contractor". Because Blocka used the same project references for both the general and the electrical qualifications, Staff view this as a clerical error and inconsequential to the bid.

Based on the above bid review, staff recommends rejecting bids by Anvil Builders and Mountain Cascade as non-responsive, and awarding the project to Blocka Construction as the lowest responsive and responsible bidder.

If awarded, a notice to proceed will be issued following award in October 2022. Equipment procurement for the MSB, MCCs, and transformer are expected to take approximately one year. Construction is anticipated to begin in Summer 2023 and is estimated to take approximately 22 months to complete. The prolonged schedule is due to industry-wide material shortages, procurement challenges, and global supply chain issues.

## **ECONOMIC IMPACT**

Replacing the MSB, MCCs, and related electrical equipment are part of an effort to modernize and upgrade existing facilities. The project will greatly improve reliability by reducing breakers tripping causing unplanned outages and other issues related to component failures. The community will enjoy the benefits of the Project, including

maintaining effective treatment that helps protect public health and provides environmental protection of the San Francisco Bay.

On November 15, 2016<sup>4</sup>, Council passed a resolution authorizing a Community Workforce Agreement (CWA) with the Alameda County Building Trades Council (BTC), which applies to City projects with construction costs of \$1,000,000 or more. The agreement requires contractors to use local union hiring halls, encourages contractors to employ Hayward residents or Hayward Unified School District graduates, and requires hired workers to pay union dues and other benefit trust fund contributions, etc. The CWA agreement applies to this Switchgear Rehabilitation Project because the construction cost is more than \$1,000,000.

### **FISCAL IMPACT**

The estimated costs for the Switchgear Rehabilitation Project are as follows:

Construction Contract	\$11,452,000
Administrative Construction Contingency (15%)	\$1,717,800
Professional Engineering Services – Consultant	\$1,108,835
Inspection & Testing & Permitting	\$80,000
Construction Administration – City Staff	<u>\$200,000</u>
<b>Total</b>	<b>\$14,558,635</b>

The FY 2023 Capital Improvement Program (CIP) includes the following budget for this effort:

<b>Project No.</b>	<b>Description</b>	<b>FY23 Adopted Budget</b>		<b>Total</b>
		<b>Fund 611</b>	<b>Fund 612</b>	
07656	Switchgear Rehabilitation	\$10,989,000	\$900,000*	\$11,889,000

*\*Sum of FY23 Adopted Budgets for Project 07707 for “WPCF MCC 5 & 19 Replacement” and Project 07719 for “WPCF Old Cogen Building Repurpose,” which are both part of the larger Switchgear Rehabilitation Project and have as such been combined into Project 07656 for Switchgear Rehabilitation (formerly called “WPCF Main 480V MCC Electrical Distribution Rehabilitation”).*

<sup>4</sup> <https://hayward.legistar.com/MeetingDetail.aspx?ID=504356&GUID=BBB3510A-72A9-4C24-ADA5-97D40B48097B&Options=info&Search=>

### Appropriation of Additional Funds

The adopted FY 2023 CIP includes a total of \$11,889,000 for the Switchgear Rehabilitation effort, across both the Sewer System Capital Replacement Fund (Fund 611) and the Sewer System Capital Improvement Fund ( Fund 612). In 2021, the City entered into a PSA with Carollo Engineers, Inc., (Carollo), of which \$1,108,835 is for design services and technical support during construction. As of September 2022, \$10,780,165 of the CIP funds remains available for construction, inspection, and administration.

The total estimated cost of \$14,558,635 to implement the project exceeds the \$11,889,000 included in the FY 2023 Adopted CIP. The original estimate was based on preliminary conceptual design. These costs are typically developed when project definition is at the planning stage. Expected accuracy for a planning stage estimate typically ranges as much as 25% below or above the actual cost. In addition, due to the recent COVID-19 pandemic-related global supply chain disruption and its impact on costs, the current estimated project cost at \$14,558,635 is approximately 22% higher than the original FY 2023 CIP budgeted amount of \$11,889,000.

Furthermore, staff discussed appropriating additional funds during the July 5, 2022 Council meeting when requesting approval of the project plans and specifications and call for bids. Another unknown for projects of this size and complexity is the additional cost for compliance with the CWA which adds additional overhead costs since the Contractor must account for when they are required to hire workers outside their core employees.

Therefore, staff recommends that Council authorize the City Manager to appropriate additional funds in the amount of \$2,669,635 from the Sewer System Replacement Fund (Fund 611) to fully fund the project in FY 2023. Sufficient fund balance is available to cover the necessary appropriation. There will be no impact to the General Fund.

### **STRATEGIC ROADMAP**

This agenda item supports the Strategic Roadmap to Invest in Infrastructure. Specifically, this item supports the following:

Project N19 Design Water Pollution Control Facility Phase II Upgrade

### **SUSTAINABILITY FEATURES**

This project will help the City maintain its ability to treat wastewater efficiently and adequately for reuse or before discharging into San Francisco Bay.

## **PUBLIC CONTACT**

All project work will be within the WPCF plant boundary and should have no impact on area businesses or the public at large; therefore, no public contact is necessary for this project.

## **NEXT STEPS**

The following schedule has been developed for this project:

Award Construction Contract	October 11, 2022
Notice to Proceed	October 28, 2022
Construction Completion	May 2025

Due to anticipated delays in equipment procurement and global supply chain issues, the project is anticipated to be completed in May 2025 which is a longer timeline than in normal years. Staff aims to issue the notice to proceed in October 2022 to begin the material procurement phase and accommodate for the long lead times to manufacture the electrical equipment. It is anticipated that construction will begin in Summer 2023 upon material procurement. Scheduling changes may occur as a result of supply chain volatility and material availability.

In addition, staff will advertise a request for proposals for a PSA for third party programming services for SCADA /PLC programming and systems integration required for the new electrical equipment. Staff will return to Council for the award of the professional services for third party programming services.

*Prepared by:* Mariza Sibal, Associate Civil Engineer

*Reviewed by:* Suzan England, Senior Utilities Engineer

*Recommended by:* Alex Ameri, Director of Public Works

*Approved by:*



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Kelly McAdoo, City Manager