

# 829140 - Fire Station Electrical System and Generator Replacement

<b>Originating Year:</b>	2012	<b>Project Type:</b>	Administrative Facilities	<b>Department:</b>	250 - Public Works
<b>Planned Completion Year:</b>	2025/26	<b>Category:</b>	Capital	<b>Project Manager:</b>	Gaku Watanabe

## Project Description/Scope/Purpose

This project is to replace roll up doors, control components for the ring down lighting systems, and main breakers for the electrical mains at five fire stations (Fire Stations #1, 2, 3, 4, and 6). The doors at fire station #1, 3 and 4 were completed in FY 2014/15. The doors at fire station #2 & 6 were completed in FY 2019/20.

The ring down lighting system is an automatic control system that turns on all lighting in the fire station when an emergency call comes in during the evening, and turns off appliances like the stove and oven. This allows the firefighters to respond quickly when a call comes in while staff is sleeping. The current system is an antiquated group of control contactors that are difficult to locate when repairs are needed.

There have been several interruptions to the systems at various locations. The main breaker installation is recommended to be upgraded at five stations from the current blade cartridge fuse system. The breaker will allow the system to be reset rather than having to replace cartridge fuses. The funds for the fire station generator replacements from project 830580 - Emergency Generator Installation, were moved into this project. The funds in FY 2024/25 are for the project design. The funds in FY 2025/26 are for construction.

## Project Evaluation and Analysis

The door replacement is necessary because this equipment has reached the end of its useful life. The electrical upgrades are recommended as safety improvements to the fire stations. The new service disconnects will allow easy reset in the event of a power outage.

The Fire Station Master Plan (21-0534) was approved by Council FY 2021/22. The findings will be used to determine future work.

## Fiscal Impact

This project is funded by the General Fund.

## Funding Sources

General Fund

## Plans and Goals

CC - Community Character - CC-4: Accessible and Attractive Public Facilities

SN - Safety and Noise - SN-5: Effective Fire Service Response System

## Project Financial Summary

	Project Costs	Revenues	Operating Costs
Prior Actual	212,244	6,140	-
2023-24	353,908	-	-
2024-25	125,000	-	-
2025-26	575,000	-	-
2026-27	-	-	-
2027-28	-	-	-
2028-29	-	-	-
2029-30	-	-	-
2030-31	-	-	-
2031-32	-	-	-
2032-33	-	-	-
2033-34	-	-	-
2034-35	-	-	-
2035-36	-	-	-
2036-37	-	-	-
2037-38	-	-	-
2038-39	-	-	-
2039-40	-	-	-
2040-41	-	-	-
2041-42	-	-	-
2042-43	-	-	-
2043-44	-	-	-
<b>20 Year Total</b>	<b>700,000</b>	<b>-</b>	<b>-</b>
<b>Grand Total</b>	<b>1,266,152</b>	<b>6,140</b>	<b>-</b>