

820200 - Traffic Signal Light Emitting Diode (LED) Array Replacements

Originating Year:	1998	Project Type:	Traffic and Transportation	Department:	250 - Public Works
Planned Completion Year:	Ongoing	Category:	Infrastructure	Project Manager:	Carmen Talavera

Project Description/Scope/Purpose

This project funds replacement of red, yellow, and green vehicular and pedestrian traffic signal light emitting diode arrays (LEDs) as they approach the end of their useful life. With the advances in technology the vehicular LED modules are now warranted for 15 years, but experience has indicated that 17 years is the actual life cycle. Pedestrian LED modules are warranted for five years but their life expectancy is seven years. This could also fund the replacement of LED beacons and indications used for advanced warning and pedestrian crosswalk enhancements. LEDs result in significant cost savings to the City in power consumption and annual replacement costs.

Project Evaluation and Analysis

This project will replace existing LED traffic signal indications once they become obsolete, reducing City liability and complying with Federal, State and accepted professional standards on a rotating basis every seven years for pedestrian signals and every 17 years for vehicle indications on a proactive basis prior to emergency failure.

Fiscal Impact

This project is funded by the Gas Tax Fund. Cost savings from the ongoing installation of LEDs are already reflected in the Department of Public Works' operating budget.

Funding Sources

Gas Tax Fund

Plans and Goals

LT - Land Use and Transportation - LT-2: Environmentally Sustainable Land Use & Transportation Planning and Development

Project Financial Summary

	Project Costs	Revenues	Operating Costs
Prior Actual	437,158	373,050	-
2022-23	986,659	377,058	-
2023-24	-	-	-
2024-25	-	-	-
2025-26	-	-	-
2026-27	-	-	-
2027-28	72,320	-	-
2028-29	-	-	-
2029-30	-	-	-
2030-31	-	-	-
2031-32	124,300	-	-
2032-33	90,400	-	-
2033-34	-	-	-
2034-35	72,320	-	-
2035-36	-	-	-
2036-37	-	-	-
2037-38	367,851	-	-
2038-39	477,312	-	-
2039-40	124,300	-	-
2040-41	90,400	-	-
2041-42	892,700	-	-
2042-43	596,640	-	-
20 Year Total	2,908,543	-	-
Grand Total	4,332,360	750,109	-