

Project Number: SL137
Project Title: Citywide LED Street Lighting Conversion
Department Name: DPW - Operations

Asset Type: Street Lights
CIP Status: Recurring
Project Category: Capital Upgrade

Budget Year: 2019
Category Code: A
Sector: Various

Project Purpose:

This is an upgrade and enhancement project that will replace all existing street lights on arterial and residential streets with LED fixtures. This project will reduce energy usage and maintenance expenses.

Project Narrative:

In 2017, engineering for the suitable LED replacements was completed. This included the evaluation of several LED options along with surveying residents regarding decorative street light fixture preferences. In 2018, this project replaced 2,800 specialty streetlights, including lights on Ogden and Rt 59. In 2019, the City will continue to replace salem-post tops, parking lot lights, and downtown DMY lights. This project also replaced a total of 8,391 cobrahead street lights on arterial and residential streets throughout the City in 2015 and 2016. The project replaced high pressure sodium (HPS) fixtures with Light Emitting Diode (LED) fixtures. The HPS lights are rated for 10,000 hours (2-3 years) and the LED fixtures are rated at 50,000 hours (10-15 years). The conversion will reduce energy usage, re-lamping fees, and maintenance costs. The gross savings from the project over 10 years is estimated at \$4.56 million and payback starts at around 6 years.

External Funding Sources Available:

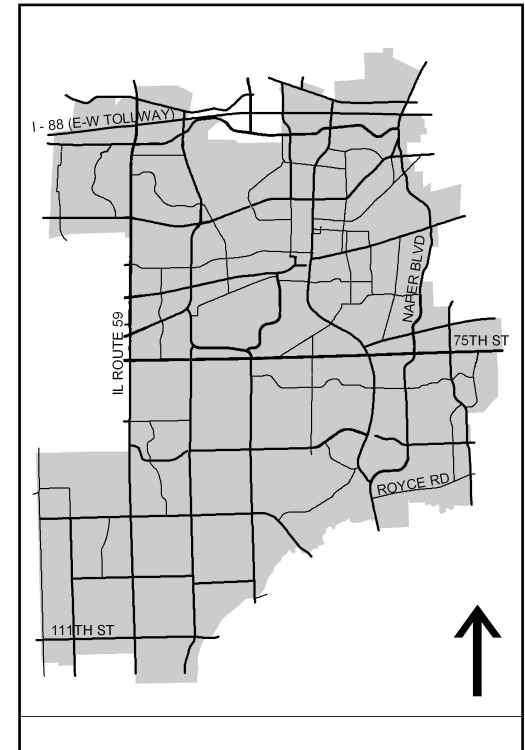
Staff used \$750,000 in IMEA Grants in FY16 An additional \$100,000 may be available in CY18

Projected Timetable:

FY14-15 - Bid specification and vendor selection; FY15 - Installation on arterial roadways; FY16- Installation on residential streets (November 2015 - February 2016), 2017-2018 - specialty street lights, Ogden Avenue and Rt 59 Arterial lights is approved by State; 2019 - Salem-post tops, parking lot lights, and downtown DMY lights.

Impact on Operating Budget:

Will reduce annual electric costs by \$166,163 and annual maintenance savings by \$276,780, and annual relamping services by \$74,906 when fully replaced.



Funding Source Summary

Funding Source	2019	2020	2021	2022	2023	Total Source
Electric Utility	70,000	0	0	0	0	70,000
Unfunded Capital	500,000	510,000	520,200	530,604	541,216	2,602,020
Totals	570,000	510,000	520,200	530,604	541,216	2,672,020

Project Cost Summary

Expense Category	2018 Budget	2019	2020	2021	2022	2023	Total CIP
Construction	500,000	570,000	510,000	520,200	530,604	541,216	2,672,020
Totals	500,000	570,000	510,000	520,200	530,604	541,216	2,672,020