



Department Source: City Utilities - Water and Light

To: City Council

From: City Manager & Staff

Council Meeting Date: January 2, 2018

Re: Pilot Lighting Project

Executive Summary

Staff has prepared for Council consideration a resolution authorizing a pilot lighting project consisting of six streetlights installed on Broadway between Hitt and Waugh. The estimated cost for this pilot is \$24,000 and would be charged to Capital Improvement Project E0180.

Discussion

In 2001 a demonstration project was started to replace the existing streetlights in the Downtown Community Improvement District (The District) with acorn style lights as shown in Exhibit A. As a result of this 2001 lighting demonstration project, the remaining lights in the downtown area were replaced with acorn style streetlights in a partnership with The District. As part of the project, The District provided the acorn lighting hardware and the City provided the installation. At the same time the existing steel poles were painted black to match the new hardware.

Many of the acorn lights fixtures have failed over the years and have been replaced with the standard streetlight that was available at the time. This has created a diverse mix of streetlights in the downtown area. Many of the poles that were painted black, especially those that were initially galvanized, are showing deterioration of the black finish.

Beginning in FY 2016 a CIP project to address lighting in The District was created (E0180). This project had three primary goals:

1. Underground the overhead electric streetlight circuits.
2. Installation of additional lighting for under lit areas including the alley ways.
3. Replace the streetlight infrastructure that was painted black.

Since that time, staff from Water & Light has coordinated with The District on several projects to accomplish these goals. Most of the overhead electric streetlight circuits have been removed and placed underground. The District has partnered with the City by providing wall sconces in Alley A, the North-South alley and the alley North of Broadway. The District would now like to address the streetlight infrastructure that was painted black approximately fifteen years ago by proposing a new partnership with the City to begin to address these issues as well as add some additional elements in regards to public safety at night.

This project would consist of the strategic replacement of poles and luminaires with new black powder coated poles and arms with Cooper Navion luminaires as shown in exhibit B.



The District has again offered to partner with the City to add features to the lighting to enhance public safety at night. The enhanced safety features would include an advanced photocell controller attached to the luminaire on the lower sidewalk arm. This luminaire would have the ability to be dimmed and brightened on a separate schedule from the upper street side luminaire. The upper street side luminaire would consist of a 3000K Cooper Navion luminaire operated from dusk till dawn. The lower sidewalk arm luminaire would consist of a 6000K Cooper Navion luminaire. An artist rendering of the proposed light is shown in Exhibit C. The lower sidewalk arm luminaire would be operated on the proposed schedule:

- Come on at dusk at a dimmed level.
- Full power at bar closing to enhance safety and discourage loitering in the downtown area.
- Return to dimmed level after ~30-45 minutes
- Off at dawn

The District has offered to cover the cost associated with the advanced photocell controllers for the project, up to a maximum of \$30,000. Should the project move forward, the department would bid the materials as a package to obtain the best available pricing. It is estimated that the costs would range between \$3,500 - \$4,500 per light. The goal would be to replace as many lights as funding levels allow, approximately \$295,000 currently available in E0180 plus \$30,000 from The District.

The District presented this lighting concept at the October and December meetings of the Water & Light Advisory Board. At the December meeting, a pilot lighting project was proposed by the Board to allow for a proof of concept before recommending full scale adoption. The pilot would consist of replacing six streetlights on Broadway between Hitt and Waugh as shown in Exhibit D. The estimated cost for this pilot is \$24,000 and would be charged to Capital Improvement Project E0180.

Fiscal Impact

Short-Term Impact: The estimated cost for this pilot is \$24,000 and would be charged to Capital Improvement Project E0180.

Long-Term Impact: None

Strategic & Comprehensive Plan Impacts

[Strategic Plan Impacts:](#)

Primary Impact: Infrastructure, Secondary Impact: Not Applicable, Tertiary Impact: Not Applicable



City of Columbia

701 East Broadway, Columbia, Missouri 65201

[Comprehensive Plan Impacts:](#)

Primary Impact: Infrastructure, Secondary Impact: Not applicable, Tertiary Impact: Not Applicable

Legislative History

Date	Action
None	None

Suggested Council Action

Staff recommends that the City Council adopt a resolution authorizing a pilot lighting project consisting of six streetlights installed on Broadway between Hitt and Waugh as described above.