



## Staff Report

**TO:** City Council  
**FROM:** Robert L. Vestal, Public Works Director  
**DATE:** March 19, 2024  
**SUBJECT:** Downtown Streetlight Discussion

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**Description** Discussion and direction on downtown streetlight design and installation in support of market night.

### **Background and Analysis:**

On November 1, 2022, City Council adopted the first amendment to the FY23-27 Capital Improvement Plan (CIP) which included creating the Downtown Streetlight Replacement (CIP R-19) project with a budget of \$1,000,000 from general funds.

City staff is requesting City Council's direction to use the Downtown Streetlight Replacement project to install street and pedestrian lighting to increase safety and enhance the streets along the downtown market night area.

### **Option 1- Consultant and Contractor**

On February 16, 2024, City staff received a scope and fee from GHD to include a conceptual streetlight design for the Downtown Revitalization project and perform a conceptual lighting design for the downtown market night area. GHD is currently developing the plans for the Downtown Revitalization project. The fee associated with this work is \$12,910.

The intent would be for GHD to develop a downtown market night lighting concept that could be scaled to the Downtown Revitalization project. GHD would identify lighting fixture options and layout based on a desktop survey of existing conditions. The deliverable for the downtown market area would be a scaled plot plan. The City would hire another consultant to develop the plot plan into a complete bid package containing plans, specifications, and estimate (PS&E). Subsequent to PS&E's, staff would bid and hire the lowest responsive bidder in accordance with the Beaumont Municipal Code.

Preliminary construction cost is estimated to range from \$750,000 to \$1,500,000 for the downtown market night area, depending on final fixtures and arrangement. The total project schedule is estimated to be 12-18 months.

### **Option 2- City Staff**

In an effort to provide City Council options and an accelerated schedule, City staff has developed a plan that uses existing decorative downtown streetlight fixtures and a layout that mimics other cities.

### **Fixtures**

Throughout Beaumont's Downtown and Towncenter areas, the City currently uses a combination for standard street lights and decorative post top lights. The standard streetlights consist of a 30-40 foot-tall pole, mast arm, and a luminaire that extend over the street (Figure 1). The post top lights consist of a 15-foot-tall decorative pole with an acorn-type luminaire (Figure 2).



*Figure 1- Standard Streetlight*



*Figure 2 - Post Top Streetlight*

### Layout

For the downtown market night area, staff is recommending using both streetlight types to provide a complete lighting plan. The standard streetlighting are more vehicle oriented and will generally occur at intersections and at ~250-foot intervals. Standard LED streetlights usually operate at 45-90 watts and produce ~5000-9000 lumens. Along Beaumont Avenue, standard streetlights already exist. Staff is not recommending modifying the standard streetlights along Beaumont Avenue or adding any to the surrounding street.

Staff is recommending installing post top streetlights spaced ~75-foot intervals on both sides of the street. Post tops streetlights will offer enhanced pedestrian and vehicular lighting. The post top streetlights will be on a separate circuit and can be turned on/off independently from the standard streetlights. The post tops streetlights operate at 40 watts and produce ~4300 lumens. Additionally, the post top streetlights can be dimmed within a certain range.

The spacing for post tops streetlights is based on the produced lumens and the desired effect. Staff recently visited two cities that have similar layouts, King Street in Alexandria, VA and Euclid Avenue in Ontario, CA. King Street has a post top streetlight spacing at 30-50 foot intervals but uses a lower lumen per pole (Figure 3 & 4). Euclid Avenue has a post top streetlight spacing of ~75-foot intervals (Figure 5).

In addition to Beaumont Avenue, staff is recommending including a portion of Seventh Street, from Beaumont Ave to Magnolia Avenue, and a portion of Magnolia Avenue, from Seventh Street (south) to Seventh Street (north) (Figure 6 and Attachment A). The additional streets provide a safe walking path from available public parking on Magnolia Avenue.

Staff recommends providing a separate electrical circuit with power outlets available to the public market night vendors located in secure (lockable) pedestals at key locations. The circuit will be based on available capacity and will be limited to 15-amps (Figure 7).

Staff also recommends installing sidewalk, curb, and accessible ramps as shown on the lighting plan in Attachment A. The new concrete would ensure connectivity through the entire downtown market night area and public parking.

Preliminary construction cost is estimated to be ~\$500,000 which includes all discussed items. The total project schedule is estimated to be 3-6 months. Staff is capable of completing this project; however, it will reduce the streets maintenance crew by 50% for the duration of construction.



Figure 3 - King Street, Alexandria, VA



Figure 4 - King Street, Alexandria, VA

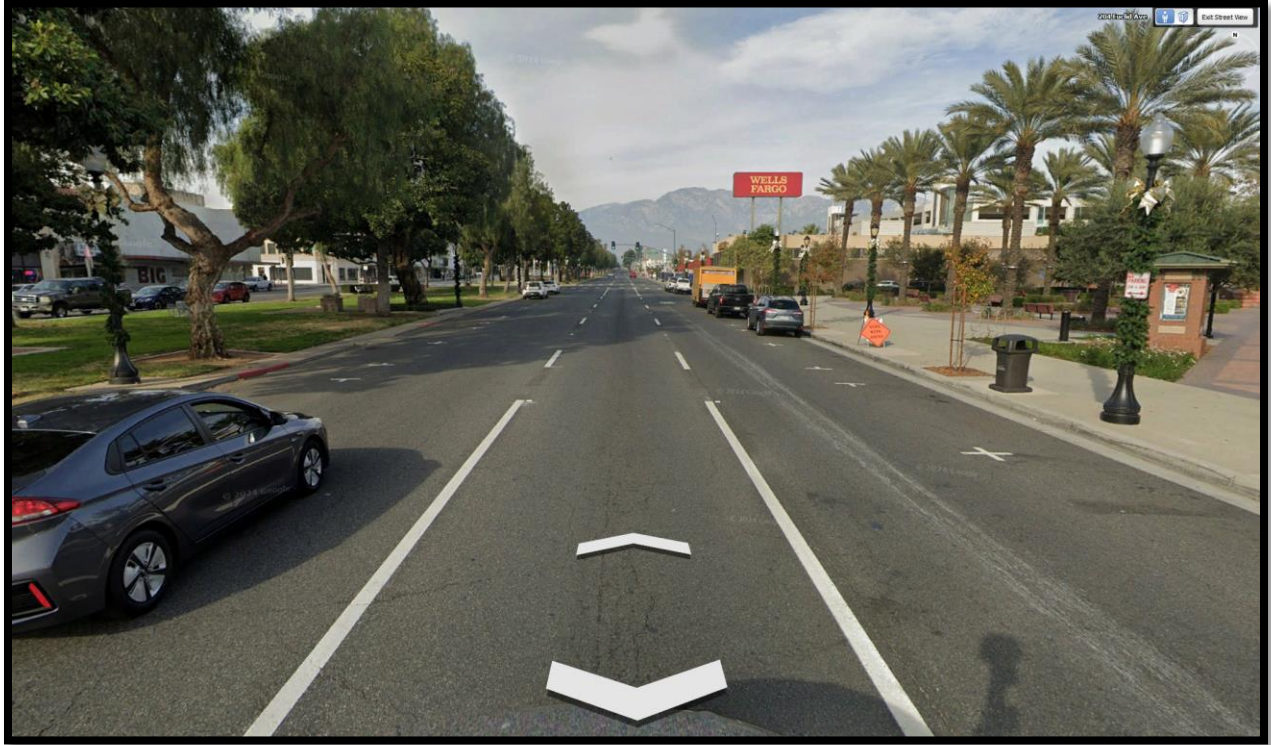


Figure 5 - Euclid Avenue, Ontario, CA



Figure 6 - Downtown Market Night Lighting Plan (Attachment A)



*Figure 7 - Outdoor Power Outlets*

**Fiscal Impact:**

The cost to prepare this staff report is estimated to be \$1,000.

All cost associated with the design and installation of downtown streetlighting in support of the downtown market night will be paid from the Downtown Streetlight Replacement (CIP R-19) project. The following is the project accounting summary:



<b>R-19 Downtown Streetlight Replacement Project Accounting Summary</b>				
<b>Funding Summary</b>				
<b>Funding Year</b>	<b>Funding Source</b>		<b>Amount</b>	
22/23	General Fund		\$1,000,000	
<b>Total Project Funding =</b>			<b>\$1,000,000</b>	
<b>Budget Summary</b>				
<b>Project Component</b>	<b>Budget</b>	<b>Encumbered</b>	<b>Paid to Date</b>	<b>Remaining Budget</b>
Project Management	\$0	\$0	\$0	\$0
Preliminary Services	\$0	\$0	\$0	\$0
Environmental	\$0	\$0	\$0	\$0
Design	\$50,000	\$0	\$0	\$50,000
Construction	\$950,000	\$0	\$0	\$950,000
Construction Management	\$0	\$0	\$0	\$0
Permits	\$0	\$0	\$0	\$0
Equipment	\$0	\$0	\$0	\$0
.	\$0	\$0	\$0	\$0
<b>Project Summary Totals</b>	<b>\$1,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,000,000</b>

**Recommended Action:**

Discussion and direction to staff with the following options:

- a. Direct staff to engage GHD to design a conceptual lighting plan, or
- b. Direct staff to install streetlights in conformance with Option 2 and subsequent discussion.

**Attachments:**

- A. Downtown Market Night Streetlight Plan
- B. GHD Scope and Fee