



# Naperville

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## CITY COUNCIL AGENDA ITEM

**SUBJECT:** Recommend the Award of RFP 16-269, Consulting Services for Street Lighting LED Conversion

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**TYPE OF VOTE:** Simple Majority

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**ACTION REQUESTED:**

Approve the Award of RFP 16-269, Consulting Services for Street Lighting LED Conversion, to Christopher Burke Engineering for an amount not to exceed \$120,521.76.

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**BOARD/COMMISSION REVIEW:**

N/A

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**COUNCIL ACTION PREVIOUSLY TAKEN:**

| Date | Item No. | Action |
|------|----------|--------|
| N/A  |          |        |

**DEPARTMENT:** Information Technology (IT)  
Department of Public Works (DPW)  
Finance Department

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**SUBMITTED BY:** Richard Dublinski, DPW Director  
Rachel Mayer, Finance Director

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**BACKGROUND:**

In 2009, the Department of Public Works (DPW) began exploring the conversion of street lighting fixtures from High Pressure Sodium (HPS) to Light Emitting Diode (LED). LEDs are rated for 50,000 hours, or approximately 15 years, which far exceeds the previously used HPS lights that ranged from 70 to 400 watts with a life expectancy of 10,000 hours, or three to four years.

In 2009, the City conducted a pilot project on Diehl Road with seven fixtures being changed out to observe light levels and energy consumption. Based upon observations from this pilot,

DPW established CIP Project SL137 to fund the replacement of all existing arterial and residential streetlights with LED fixtures. The project was initially approved as a five-year plan in 2011. At that time, the cost-benefit analysis did not indicate the project was financially viable. However, DPW continued to follow advancement in technologies. A decline in prices and improvements in LED technology expedited the project to two years and increased estimated savings.

This project allows Naperville to be a leader in technology innovation; improve visibility, safety, and reduce light pollution; reduce environmental impact through energy reduction; and provide the City with maintenance and energy consumption savings. The conversion will reduce energy usage, re-lamping fees, and maintenance costs. The project is estimated to save \$4.56 million over 10 years with payback starting after nearly six years.

The LED conversion project began in 2015 and was divided into three phases. The first phase replaced 1,727 fixtures on arterial streets and was completed in April 2015 at a cost of \$590,725. The second phase replaced 6,930 residential street lights and was completed in March 2016 at a cost of \$1,525,589.

The final phase of CIP Project SL137 will begin in early 2017 and involves the upgrade of 2,700 specialty streetlights (including Salem-post tops, Shepherd Crook, and parking lot and roadway lighting,) with LED fixtures. This RFP was advertised to retain the services of a qualified and experienced consulting engineering firm to provide engineering services to assist the City in the preparation of specifications, the evaluation of bid responses and the review of construction installations associated with the conversion of the decorative street lights and cobraheads from HID fixtures to LED fixtures.

Establishing the appropriate LED conversion fixture for the decorative fixtures is more complicated than the cobrahead change outs previously conducted due to the variety of fixture types and styles that are in some cases unique to Naperville. The consultant will provide a detailed investigation and evaluation as to the appropriateness of the fixture to be used in the conversion of the decorative street lights.

**DISCUSSION:**

Advertisement Date: 07/19/2016

Notices Sent: 261

Opening Date: 08/09/2016

Planholders: 35

Bids Received: 6

Proposals were received from the following firms:

Christopher Burke Engineering  
Ciorba Group  
Civil Tech Engineering, Inc.

Engineering Resource Associates, Inc.  
Singh & Associates, Inc.  
Tanko Street Lighting Inc.

A four member selection team comprised of City staff participated in the selection process. The supplier proposals were scored based upon the following detailed requirements defined in the RFP.

- Qualifications and experience of the firm and proposed staff with LED street lighting experience. (40%)
- Qualifications and experience of the firm and proposed staff with IDOT design criteria and processes. (20%)
- Ability to illustrate the firm's thorough understanding of street lighting conversions: retrofit and/or new installation of LED street lights. (25%)
- Ability to illustrate a schedule and tasks needed to meet the project schedule outlined in the RFP. (15%)

After reviewing and scoring the proposals, the selection committee shortlisted the top two suppliers; Christopher Burke Engineering and Ciorba Group, and invited them to participate in interviews. Following the completion of the interviews, the scoring was finalized and a scoping meeting was held to refine the scope of work. Following the scoping meeting, the two shortlisted firms submitted fee proposals. The fee proposals were opened and the costs were then divided by the respective firm's qualifications score (expressed as a decimal) to yield an "adjusted cost" as shown in the table below.

| Consulting Firm               | Fee Proposal | Qualitative Score | Quality Adjusted Price |
|-------------------------------|--------------|-------------------|------------------------|
| Christopher Burke Engineering | \$120,521.76 | 87.50             | \$137,739.15           |
| Ciorba Group                  | \$109,312.71 | 68.25             | \$160,165.14           |

Christopher Burke Engineering had the lowest quality adjusted score and is recommended for award.

**FISCAL IMPACT:**

CIP#: SL137

Consulting Services for Street Lighting LED Conversion is expensed to the Capital Improvement Program line below. The budget amount shown below reflects CY2017 programmed totals as this final stage of work will begin in early CY2017. A total of \$230,000 has been budgeted in this account for Citywide LED Street Lighting Conversion in CY2017. The requested award of \$120,521.76 is within the budgeted amount for this expense.

| Account Number     | Fund Description    | Total Budget Amount |
|--------------------|---------------------|---------------------|
| 332-4230-431.70-80 | 2014 G.O. Bond Fund | \$125,000           |

**RECOMMENDATION:**

Approve the Award of RFP 16-269, Consulting Services for Street Lighting LED Conversion, to Christopher Burke Engineering for an amount not to exceed \$120,521.76.

**ATTACHMENTS:**

1. N/A