



**VILLAGE OF HUNTLEY
AGENDA SUMMARY**

January 12, 2023
Village Board Meeting

Agenda Item: Approval of the Village of Huntley 2023 LED Street Light Replacement Program:

- i. Consideration – Resolution Waiving Competitive Bidding and Approving the Purchase of LED Street Light Fixtures from Acuity Brands in the amount of \$346,855**
- ii. Consideration – Resolution Waiving Competitive Bidding and Approving the Purchase of a Trailer Mounted Impact Attenuator from Traffic Control and Protection Systems, Inc. in the amount of \$30,500**
- iii. Consideration – Resolution Approving Professional Services Agreements with Christopher B. Burke Engineering, Ltd. in the amount of \$19,600 for Engineering and Permitting Services**

Department: Public Works and Engineering – Administration and Engineering Division

INTRODUCTION

The LED Street Light Program has allowed the Village to replace **1,607** High Pressure Sodium (HPS) fixtures to LED resulting in an incentive amount of **\$176,701.77** to date paid to the Village by ComEd. The Village has reduced CO2 emissions equivalent to **87** homes annually and can expect approximately **\$36,500** of energy savings annually due to the reduced wattage of the LEDs. The Village is looking to participate in the ComEd Energy Efficiency Program again in 2023 and continue the LED Street Light Program.

The FY23 Budget included \$920,000 for the IL Route 47 LED Decorative Street Lighting Replacement. The budgetary estimate was developed based on the premise that the project was to be put out to public bid for contractors to purchase and perform the retrofitting of the luminaires with the material meeting photometrics identified in the study. The costs associated with work being publicly bid for contractors under prevailing wage rate and union labor requirements combined with the increasing costs in the street lighting material market led staff to arrive at the \$920,000 budgetary estimate.

After reevaluation of the project, staff explored the option of self-performing the work with the existing LED Street Light Program. The revised project cost with the Village purchasing the fixtures and Public Works staff self-performing the work, which includes rental of a larger aerial lift truck to reach the upper decorative fixtures, installing the fixtures, traffic control, and engineering & permitting is \$403,455 without the ComEd Incentive for a total FY23 savings of \$516,545.

The proposed 2023 LED Street Light Program would consist of replacing the existing IL Route 47 decorative style street lights starting at Deicke Park north to Algonquin Road for a total of 94 upper teardrop style fixtures and 172 lower lantern style fixtures to be replaced for a material cost of \$324,650 with an approximate initial incentive amount of \$29,728. ComEd is also offering a Standard Early Bird Incentive of 25% for an approximate overall incentive of \$37,160.



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With the cost savings realized, staff is also proposing the replacement of the existing IL Route 47 cobra head style fixtures at the intersection of IL Route 47 and Freeman Road including five (5) fixtures to the north of the intersection and ten (10) fixtures to the south for a total number of 23 cobra head fixtures to be replaced for a material cost of \$22,205 with an initial incentive amount of \$5,606. ComEd is also offering a Standard Early Bird Incentive of 25% for an approximate overall incentive of \$7,008.

The total approximate incentive/revenue would be \$44,168 for a net total project material cost of \$302,687.50. Staff is in the pre-application process with ComEd for FY23 and final incentive amount is to be determined.

With the cost savings realized, staff is also proposing the purchase of a trailer mounted impact attenuator with arrow board. In order to self-perform the traffic control on IL Route 47 per the IDOT Standard 701427-05 (Detail B), the Village will need to have a truck mounted impact attenuator with arrow board. Staff solicited a quote from TCP to rent one (1) teamster with a truck containing a truck mounted impact attenuator with an arrow board at an estimated cost of \$15,150 for traffic control operations. The Village can purchase a trailer mounted impact attenuator with arrow board for \$30,500 to be used with this project and other roadway work within the Village to better provide flexibility and protection of Village Staff during roadway operations. The trailer mounted impact attenuator is designed to absorb energy through the use of an oversized mandrel which pushes into a smaller tube in the event of a crash. This design dissipates energy by splitting the tube into four strips of metal on impact. These strips remain with the trailer and pose no hazard to workers or adjacent traffic. Total staff resources for the traffic control operation would include approximately four (4) employees: one (1) replacing the fixtures in the bucket of the aerial lift truck, one (1) driver for the aerial lift truck, one (1) flagger, and one (1) driver in a Village 5-Yard Dump Truck with the proposed trailer mounted impact attenuator.

Also included in this scope of work are two (2) Professional Engineering Service Agreements with Christopher B. Burke Engineering, LTD in an amount not to exceed \$19,600 for engineering and permitting with IDOT.

STAFF ANALYSIS

The manufacturer, Acuity Brands, is a sole source vendor for the Halophane fixtures that will be used for the existing decorative style street lights on IL Route 47 starting at Deicke Park north to Algonquin Road for a total of 94 upper teardrop style fixtures and 172 lower lantern style fixtures. The following proposals were received:

MANUFACTURER	DISTRIBUTOR	FIXTURE TYPE	FIXTURE QUANTITY	UNIT PRICE	COST
Acuity Brands	Steiner Electric	Halophane	172	\$1,065.00	\$183,180.00
Acuity Brands	Steiner Electric	Halophane	94	\$1,505.00	\$141,470.00
TOTAL			266		\$324,650.00

The manufacturer Acuity Brands is a sole source vendor for the American Electric fixtures that will be used for existing Route 47 cobra head style fixtures at the intersection of Route 47 and Freeman Road including five (5) fixtures to the north of the intersection and ten (10) fixtures to the south for a total of 23 cobra head fixtures. The following proposals were received:



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MANUFACTURER	DISTRIBUTOR	FIXTURE TYPE	FIXTURE QUANTITY	UNIT PRICE	COST
Acuity Brands	Steiner Electric	American Electric	15	\$995.00	\$14,925.00
Acuity Brands	Steiner Electric	American Electric	8	\$910.00	\$7,280.00
TOTAL			23		\$22,205.00

These fixtures are DLC Qualified Products that are part of the largest verified lists of high performing and energy saving LED lighting solutions in the world that allow the fixtures to qualify for the ComEd Energy Efficiency Program. Acuity is working directly with Steiner Electric who is a preferred distributor.

2022-2025 STRATEGIC PLAN ALIGNMENT

The Strategic Plan identifies “Forward Looking Community” as a strategic focus and the following goal: “Management of Infrastructure Assets for Today and Tomorrow.” Replacing conventional streetlights with LED lighting can greatly reduce energy use and maintenance costs while improving light quality and output at street level.

FINANCIAL IMPACT

The FY23 Budget includes funding in the Streets Improvement and Roads & Bridges Fund, line item 420-00-00-8000 for the LED Street Light Program.

LEGAL ANALYSIS

In accordance with State Statute, a bid waiver shall be approved by a vote of two-thirds of all the trustees then holding office, thus requiring an affirmative vote of four (4) trustees, with the mayor not voting.

ACTION REQUESTED

A motion of the Village Board for:

- i. Resolution Waiving Competitive Bidding and Approving the Purchase of LED Street Light Fixtures from Acuity Brands in the amount of \$346,855
- ii. Resolution Waiving Competitive Bidding and Authorizing and Approving the Purchase of a Trailer Mounted Impact Attenuator from Traffic Control and Protection Systems, Inc. in the amount of \$30,500
- iii. Resolution Approving a Professional Services Agreement with Christopher B. Burke Engineering, Ltd. in the amount of \$19,600 for Engineering and Permitting Services

SUPPORTING DOCUMENTS

- 1. Acuity Proposal
- 2. TCP Attenuator Rental Proposal
- 3. TCP Attenuator Purchase Proposal
- 4. CBBEL PSA IL Route 47 Diecke Park to Algonquin Road
- 5. CBBEL PSA IL Route 47 & Freeman Road
- 6. IDOT Standard 701427-05
- 7. 2017-2024 Streetlight Replacement Program Exhibits
- 8. VOH Streetlight Replacement Poster
- 9. 2023 LED Street Light Replacement Program Summary of Quantities



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10. Existing/New Route 47 Glass Types
11. Draft Resolutions