



BOROUGH OF NORTH WALES

300 School Street, North Wales, PA 19454

Phone: 215-699-4424 • Fax: 215-699-3991

<http://northwalesborough.org>

COUNCIL MEETING Tuesday, January 22, 2019

Salvatore Amato
James Cherry
Ronald S. Little, Jr.
Wendy McClure
Sally Neiderhiser

Eion O'Neill
Daniel H. O'Connell, Sr.
James Sando
Paula Scott
Gregory J. D'Angelo, Mayor

Call to Order, Date and Time
Roll Call
Pledge of Allegiance

1. Public Comment

2. Consideration: Appointments of Boards and Commissions Members

3. Consideration: Appointments of Council Member Sub-Committees

4. Consideration: Authorizing Cooperative Purchasing and Participation in the Regional Street Light Procurement Program (RSLPP)

5. Consideration: Establishment of Cemetery Preservation Fund

6. Consideration: 2019 Borough Engineer Rate Schedule

7. Consideration: Disbursements: \$75,024.44

8. Old Business/Committee & Board Reports/Zoning Applications

9. Solicitor / Mayor / Council / Manager

Adjournment

Mayor's Office Hours

2 nd & 4 th Tuesdays	2:00 - 4:00 PM
2 nd & 4 th Wednesdays	7:00 - 8:30 PM

Monthly Meeting Information:

Boards and Commissions

Borough Council	2 nd & 4 th Tuesday of Month
Zoning Hearing Board	1 st Tuesday of Month as Needed
Planning Commission	1 st Wednesday of Month
HARB	3 rd Wednesday of Month
Park & Recreation Board	2 nd Thursday of Month
Shade Tree Commission	2 nd Thursday of Month
Nor-Gwyn Pool Commission	2 nd Thursday of Month – 7:30 PM
Historic Commission	3 rd Tuesday of Month

All above meetings begin at 7 P.M. in the Municipal Building, unless noted otherwise.

North Wales Water Authority	2nd & 4th Wednesday of Month 5:00 PM, 200 W. Walnut Street
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Please note: The meeting is being digitally recorded.

2019 Boards and Commissions Positions Available

- **Civil Service Commission**
 - 1 open seat, 6-year term, expires 12/31/2024
- **Historical Architectural Review Board**
 - 1 vacant real estate broker seat, 5-year term, expires 12/31/2023
 - 1 open seat, 5-year term, expires 12/31/2023
- **History Commission**
 - 1 open seat, 5-year term, expires 12/31/2023
- **Nor-Gwyn Pool Commission**
 - 1 open seat, 5-year term, expires 12/31/2023
- **North Wales Area Library Board**
 - 1 open seat, 3-year term, expires 12/31/2021
- **North Wales Water Authority Board**
 - 1 open seat, 5-year term, expires 12/31/2023
- **Parks & Recreation Board**
 - 1 vacant seat, 1-year term, expires 12/31/2019
 - 2 open seats, 5-year terms, expires 12/31/2023
- **Pension Committee**
 - 3 open seats, 1-year terms, expires 12/31/2019
- **Planning Commission**
 - 1 vacant seat, 2-year term, expires 12/31/2020
 - 1 open seat, 4-year term, expires 12/31/2022
- **Shade Tree Commission**
 - 1 vacant seat, 1-year term, expires 12/31/2019
 - 1 open seat, 5-year term, expires 12/31/2023
- **Vacancy Board**
 - 1 open seat, 1-year term, expires 12/31/2019
- **Zoning Hearing Board**
 - 1 open seat, 5-year term, expires 12/31/2023

Please submit a letter of interest for any one or more of the above listed openings, addressed to the North Wales Borough Council in care of the Borough Manager. Letters can be submitted electronically to: chart@northwalesborough.org. **The deadline to submit a letter is Wednesday, January 16th.**

Sub Committees of Council

Sub Committees meet when needed to assist Borough Operations

Buildings and Grounds Committee

James Cherry, Council Vice President
Eion O'Neill, Council Member
James Sando, Council President

Employee Relations Committee

Wendy McClure, Council Member
James Sando, Council President
Paula Scott, Council Member

Finance Committee

Salvatore Amato, Council Member
Sally Neiderhiser, Council Member
Daniel O'Connell, Council Member

Public Safety Committee

James Cherry, Council Vice President
Wendy McClure, Council Member
James Sando, Council President
Gregory J. D'Angelo, Mayor
Chief of Police

Technology Committee

Salvatore Amato, Council Member
Ronald S. Little, Jr., Council Member
Eion O'Neill, Council Member

BOROUGH OF NORTH WALES
RESOLUTION 2019-007
A RESOLUTION TO AUTHORIZE COOPERATIVE PURCHASING AND
PARTICIPATION IN THE REGIONAL STREETLIGHT PROCUREMENT PROGRAM
ADMINISTERED BY DELAWARE VALLEY REGIONAL PLANNING COMMISSION

WHEREAS, the Borough of North Wales is located in Montgomery County, Pennsylvania (the “Borough”); and

WHEREAS, the Borough qualifies as a “local public procurement unit” as defined under Chapter 19 of the Commonwealth Procurement Code, 62 Pa C.S. §1901 et seq. (the “Code”); and

WHEREAS, the Delaware Valley Regional Planning Commission (“DVRPC”) qualifies as a “public procurement unit” under the Code, and has established a Regional Streetlight Procurement Program (the “Program”) for the purpose of entering into “cooperative purchasing” agreements with regional municipalities; and

WHEREAS, the Borough, in its capacity as a local public procurement unit, is agreeable to participating in the Program, as reflected by the execution of a letter of intent; and

WHEREAS, Participation in the program will allow the Borough to implement a project (the “Project”) to improve the performance of municipal street lighting, and specifically to design, procure, install, and finance the transition to light-emitting-diode (LED) street lighting and other street light improvements, and to maintain those improvements; and

WHEREAS, DVRPC has entered into a contract with Keystone Lighting Solutions (“KLS”) to provide design services for the Program; and

WHEREAS, participating municipalities, including the Borough, are able to “piggyback off of” contracts entered into by DVRPC for design services, equipment acquisition, distribution, and installation, in accordance with the Code; and

WHEREAS, as part of its contract with DVRPC, KLS has presented a Preliminary Feasibility Study (Phase 1), developed free of charge to the Borough to estimate the equipment and services required for, and to estimate the cost associated with, the Project; and

WHEREAS, as part of its contract with DVRPC, KLS has also estimated the costs to the Borough associated with KLS’s services for Phase 2 - 4 of the Program; and

WHEREAS, the Borough has determined that its interests warrant piggybacking off of DVRPC’s contract with KLS, thereby forming a separate and new Contract between the Borough and KLS in the form attached hereto as Exhibit A; and

WHEREAS, in accordance with this Contract KLS will provide Professional Design Services to evaluate, recommend, audit, design and manage the Project.

NOW, THEREFORE, BE IT RESOLVED that the Borough Council of the Borough hereby authorizes the Borough to enter into cooperative purchasing in the form of the Contract with KLS and to proceed to Phase 2 of the Program for Project Development Services; and it is

FURTHER RESOLVED that the Borough Council of the Borough hereby authorizes and directs its employees, agents and representatives to take all such further actions and to execute and deliver all such instruments and other documents as may be necessary or appropriate to enable the Borough to carry out the intent and purposes of the foregoing resolutions and the transactions contemplated thereby.

IN WITNESS WHEREOF, the Borough Council of North Wales Borough has adopted and enacted this Resolution this 22nd day of January, 2019.

BOROUGH COUNCIL OF THE
BOROUGH OF NORTH WALES

BY: _____
James Sando, President

ATTEST:

Christine A. Hart, Secretary

AGREEMENT FOR PROFESSIONAL SERVICES

REGIONAL STREETLIGHT DESIGN AND PROJECT MANAGEMENT

THIS AGREEMENT, made this 22nd day of January, 2019, by and between the Borough of North Wales, a Pennsylvania Borough with offices at 300 School St, North Wales, PA 19454 and Keystone Lighting Solutions, LLC, a Pennsylvania limited liability company with offices at 224 Rimmey Road, Centre Hall, PA 16828, agree as follows:

RECITALS

WHEREAS, the Delaware Valley Regional Planning Commission (“DVRPC”) has undertaken the Regional Streetlight Procurement Program, or RSLPP (the “Program”) as a professional service to municipalities that choose to participate, and

WHEREAS, participation in the Program allows regional municipalities to improve the performance of municipal street lighting, and specifically to design, procure, install, and finance the transition to light-emitting-diode (LED) street lighting and other street light improvements, and to maintain those improvements, and

WHEREAS, the Program will provide comprehensive technical design assistance and project management support to participating municipalities, and

WHEREAS, pursuant to the Program, DVRPC solicited proposals using a request-for-proposal (RFP), appearing here as Attachment A to this Agreement, in order to identify and select a design services professional (“DSP”), to provide technical design solutions tailored to the needs of each participating municipality, and

WHEREAS, in response to the RFP, Keystone Lighting Solutions (“KLS”) submitted a Proposal, dated October 12, 2018 (the “Proposal”) and appearing here as Attachment B to this Agreement, and

WHEREAS, as a part of its interview, KLS provided a PowerPoint presentation, entitled, “RSLPP Round II Design Services Professional, Selection Interview, October 22, 2018” (the “Presentation,”) and

WHEREAS, in accordance with the RFP, the Proposal, and the Presentation, DVRPC selected KLS to provide technical design solutions for the participating municipalities, and

WHEREAS, participating municipalities including the BOROUGH OF NORTH WALES, are able to utilize cooperative contracts entered into by DVRPC for design services, equipment acquisition, and installation, in accordance with Chapter 19 of the Commonwealth Procurement Code, 62 Pa.C.S. § 1901 et seq., and

WHEREAS, KLS is providing to DVRPC a Preliminary Feasibility Study that will benefit the BOROUGH OF NORTH WALES, and

WHEREAS, DVRPC will prepare formal agreements and model agreements to be utilized by the participating municipalities with manufacturers, distributors, and installers, and

WHEREAS, the BOROUGH OF NORTH WALES has agreed to participate in the Program on the terms and conditions hereinafter set forth.

NOW THEREFORE, and intending to be legally bound hereby, the parties agree as follows:

Article I

Statement of the Services

1. **Professional Services.** KLS will provide professional services to enable the BOROUGH OF NORTH WALES to improve the performance of municipal street lighting, and specifically to design, procure, install, and finance the transition to light-emitting-diode (LED) street lighting and other street light improvements, and to maintain those improvements, all as more completely described in the RFP and the Proposal (the “Services”). To the extent that there is inconsistency between the RFP and the Proposal, the provisions found in the Proposal shall govern.
2. **Phases 1 through 4 of the Services.** The Services will be furnished in four phases. Phase 1 shall be performed under the direction of DVRPC pursuant to a DVRPC-KLS contract and will result in a Preliminary Feasibility Study of improvements proposed to be made to the BOROUGH OF NORTH WALES’s streetlights. Certain services provided by KLS at DVRPC’s direction and expense during Phase 1 will inure to the benefit of the BOROUGH OF NORTH WALES. KLS will undertake in Phase 2 project development and will produce an investment grade audit for the benefit of the BOROUGH OF NORTH WALES in accordance with this Agreement. Thereafter and at the election of the BOROUGH OF NORTH WALES, in Phase 3 KLS will provide project management Services and in Phase 4, post-construction/installation Services.
3. **Phase 2.** KLS shall provide to the BOROUGH OF NORTH WALES project development Services, as more fully described in the RFP and the Proposal. The resolution adopted by the BOROUGH OF NORTH WALES approving this Agreement shall constitute the direction to KLS to proceed with Phase 2.
4. **Phase 3.** Should the BOROUGH OF NORTH WALES elect to proceed with this Phase by resolution, KLS shall provide to the BOROUGH OF NORTH WALES project management Services, as more fully described in the RFP and the Proposal.
5. **Phase 4.** Should the BOROUGH OF NORTH WALES elect to proceed with this Phase by issuance of written direction, KLS shall provide to the BOROUGH OF NORTH WALES

- post-installation Services, as more fully described in the RFP and the Proposal.
6. **Professional Standard of Performance.** KLS accepts the relationship of trust and confidence established by this Agreement and covenants with the BOROUGH OF NORTH WALES to furnish the best knowledge, skill, care, and professional judgment, and to cooperate with the BOROUGH OF NORTH WALES in furthering its interests. In no event shall the knowledge, skill, care and professional judgment rendered by KLS be less than that ordinarily and customarily accepted within the industry.
 7. **Design Professional Compliance.** KLS's professional activities regarding streetlight improvements shall comply with any applicable permits, laws, regulations and ordinances of all federal, state, and local government in force at the time of design. KLS shall make or cause to be made by the contractor/installers all required submittals to, and shall make their best efforts to obtain all required approvals from, the applicable agencies in a timely manner. Any fees and costs for permits and approvals incurred by KLS shall be reimbursed by the BOROUGH OF NORTH WALES within thirty (30) days from the date of any properly rendered and documented invoice.

Article II

Time of Performance

8. Time shall be of the essence in relation to KLS's performance under this Agreement. Reasonable extensions given in writing shall be granted at the written request of KLS, provided the justifying circumstances are documented by and are beyond the reasonable control of KLS and without fault of KLS. In the event of such an extension, all other terms and conditions of this Agreement shall remain in full force and effect.

Article III

Revisions in the Work to be Performed

9. If during the term of this Agreement, the BOROUGH OF NORTH WALES requires revisions or other changes to be made in the Statement of Services, or the furnishing of additional Services, the BOROUGH OF NORTH WALES will promptly notify KLS. For any changes or additions to the Services necessitated by circumstances or requested for the convenience of the BOROUGH OF NORTH WALES, KLS shall notify the BOROUGH OF NORTH WALES of the associated costs in writing. KLS shall make the necessary changes or additions to the Services only upon receipt of a written acceptance of the costs from the BOROUGH OF NORTH WALES.
10. The BOROUGH OF NORTH WALES will neither unreasonably request revisions or additions to the Services nor unreasonably withhold final acceptance of work by KLS. Any revisions or changes requested by the BOROUGH OF NORTH WALES will not unreasonably depart from the current understanding of the nature of the Services being provided.

Article IV

Payment for Services

11. The BOROUGH OF NORTH WALES's payment to KLS under this Agreement shall be based upon unit prices, as set forth in the Unit Price Schedule and Payment Milestones, appearing here as Attachment C to this Agreement.

12. Payments are due in thirty (30) days from the date of any properly rendered and documented invoice.

Article V

Ownership and Confidentiality of Material, Work Products

13. KLS shall afford the BOROUGH OF NORTH WALES reasonable access to any work product, including but not limited to all work papers, data, reports, questionnaires and other material prepared, produced or collected by KLS under this Agreement.
14. The BOROUGH OF NORTH WALES reserves a royalty-free, nonexclusive, and irrevocable right to reproduce, publish, and otherwise use, and authorize others to use specifically for the benefit of the municipality, the copyright in any work developed under this Agreement, and any rights of copyright acquired with funds provided under this Agreement.
15. The BOROUGH OF NORTH WALES, KLS and DVRPC shall all have full rights to the data, information, and instruments of service produced or delivered under this Agreement.
16. Upon completion of this project or termination for or without cause, KLS shall return any documents, models, tools, plans or items whatsoever belonging to or supplied by the BOROUGH OF NORTH WALES.

Article VI

Duties of Municipality

17. The BOROUGH OF NORTH WALES shall provide all available information regarding requirements for the Program, including the BOROUGH OF NORTH WALES's objectives, requirements for completion, budgetary constraints and criteria, and schedule for availability of the existing facilities.
18. The BOROUGH OF NORTH WALES shall designate a representative who shall be the point of contact, who is authorized to act on the BOROUGH OF NORTH WALES's behalf with respect to the Project and who will have the authority to render decisions promptly consistent with the schedule and to furnish information with reasonable promptness.
19. Upon written request, the BOROUGH OF NORTH WALES shall provide acknowledgements, approvals, comments, and acceptances of submissions from KLS with reasonable promptness. To the extent that the BOROUGH OF NORTH WALES has comments and objections to the KLS request, those comments and objections should be communicated promptly and with reasonable specificity.

Article VII

Indemnification

20. KLS shall indemnify, defend and hold harmless the BOROUGH OF NORTH WALES and all of its officers, agents and employees, against all suits, claims, demands and liabilities of every name and nature, both at law and in equity and by a third-party, based upon or arising out of any negligent action taken or negligent failure to act by the KLS in its performance of this Agreement

Article VIII
Insurance

21. KLS shall secure, and maintain in effect throughout the term of this Agreement, insurance in the amounts set forth in this Article and shall provide BOROUGH OF NORTH WALES with certification of such, if requested.
22. Unless otherwise agreed in writing, KLS shall maintain (1) general liability coverage in the amount of \$1,000,000 single occurrence and \$2,000,000 in the aggregate, (2) workman's compensation in the amount of \$1,000,000, (3) automobile coverage in the amount of \$500,000, and professional liability coverage in the amount of \$1,000,000. A certificate of insurance appears here as Attachment D to this Agreement.
23. For coverages (1) and (3), KLS shall name the BOROUGH OF NORTH WALES and DVRPC as additional insureds.

Article IX
Assignment

24. The parties shall neither assign nor transfer their respective interests in this Agreement, in part or in whole, without the prior written consent of the other.

Article X
Severability

25. In the event any provision of this Agreement is found by a court of appropriate jurisdiction to be unlawful or invalid, the remainder of the Agreement shall remain and continue in full force and effect.

Article XI
Termination of Agreement

26. KLS or the BOROUGH OF NORTH WALES may terminate this Agreement upon immediate written notice should the other party fail to perform substantially in accordance with the terms of the Agreement, with no fault attributable to the other, provided that the party which has failed to perform shall be provided fourteen (14) days to cure or to make substantial efforts to commence to cure. Written notice should specifically list and explain performance issues or deficiencies, referencing contract requirements. KLS shall be compensated for work product and Services performed that was not deemed deficient and for work product that has value and is usable.
27. Notwithstanding any language to the contrary within this Agreement, KLS or the BOROUGH OF NORTH WALES may terminate this agreement without cause at any time, effective sixty (60) days from the date of the written notice of termination. In the event of termination, KLS shall be compensated for Services performed prior to the date of termination.

Article XII
Adjustment of Compensation

28. The BOROUGH OF NORTH WALES and KLS shall attempt to resolve all claims and

disputes between them arising out of this Agreement. Should KLS not be satisfied with the BOROUGH OF NORTH WALES's decision regarding a claim or dispute, KLS may request an administrative determination. The BOROUGH OF NORTH WALES shall, within thirty (30) days of a demand for an administrative determination or on its own initiative, designate an individual to serve as Claims Administrator. The parties shall attend administrative conferences at the call of the Claims Administrator. The BOROUGH OF NORTH WALES and KLS shall cooperate fully in the administrative investigation conducted by the Claims Administrator at the administrative conference and at such other times as the Claims Administrator shall determine, and shall furnish documents and other information required by the Claims Administrator. Within thirty (30) days of the completion of the administrative investigation, the Claims Administrator will render a decision and recommendation to the

parties. The decision and the recommendation shall not be binding on any party and will not be admissible in any proceeding. Unless the decision and recommendation is accepted, KLS may submit a claim to a state court within the Commonwealth of Pennsylvania of competent jurisdiction.

Article XIII
Governing Law and Jurisdiction

29. This Agreement shall be governed by, construed, and enforced in accordance with the laws of the Commonwealth of Pennsylvania, without regard to its conflicts of laws provisions.

Article XIV
Complete Agreement

30. This Agreement, and the Exhibits attached hereto and incorporated herein constitute a total agreement of the parties and supersede all prior agreements and understandings between the parties, and may not be changed unless agreed upon in writing by both parties.

KEYSTONE LIGHTING SOLUTIONS,
LLC

BOROUGH OF NORTH WALES

By: _____
[Print Name] [Print Title]

By: _____
James Sando, President of
Borough Council

Attest: _____

Attachment A – Request for Proposal
Attachment B – Proposal
Attachment C – Unit Price Schedule
Attachment D – Certificate of Insurance

Roadway, Street & Area Lighting Upgrade Feasibility Study

North Wales Borough
1/3/2019

Prepared by:



Keystone Lighting Solutions
Michael Fuller, President

In Partnership with:

**Delaware Valley Regional Planning Commission's
Regional Streetlight Procurement Program**

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Executive Summary

RSLPP Overview

The Delaware Valley Regional Planning Commission's Regional Streetlight Procurement Program (RSLPP) allows regional municipalities to improve the performance of municipal street lighting, and specifically to design, procure, install, and finance the transition to light-emitting-diode (LED) lighting technology, and to maintain those improvements. The RSLPP is organized in four Phases: Phase 1: Feasibility; Phase 2: Project Development; Phase 3: Construction; and Phase 4: Post-Construction Operations and Maintenance. These Phases are described in greater detail in Appendix A.

Keystone Lighting Solutions (KLS) was competitively selected by the RSLPP to serve as the Design Services Professional for all four Phases of the program. In Phase 1, KLS is contracted with DVRPC to provide Feasibility Studies for all participating municipalities. By using existing available information and with financial support from DVRPC and the PA Department of Environmental Protection, the RSLPP is able to offer this study at no-cost to the municipality.

Feasibility Study Overview & Approach

This report has been prepared by KLS. The purpose of this Feasibility Study is to provide an assessment of the opportunity associated with the upgrade of a municipalities existing roadway, street and area lighting systems to LED, which may also include traffic signals. This study will act as a decision-making tool for your municipality to decide whether to proceed to Phase 2 of the RSLPP, Project Development. Project Development Phase will include comprehensive audits, design and analysis resulting in a final project design proposal.

Phase 1, Feasibility, is a "data-driven" effort that uses existing available information to assess the opportunity associated with an upgrade to your existing lighting system. No field work has been conducted for the development of this Feasibility Study. General design principals have been used by KLS to identify LED upgrade opportunities, described in the Design Approach and Photometric Analysis section. Project costs from Round 1 of the RSLPP (2015-2018) have been used to develop this financial assessment of the municipalities upgrade opportunity.

Project Goals and Special Applications

The following list of project goals and special applications was developed during discussions between municipality staff/management and KLS as preparation for this initial study.

- **Project Goals**
 - Reduce Energy Costs
 - Reduce Maintenance Costs
 - Meet or Exceed Existing Lighting System Performance
- **Special Applications**
 - Some parks not lit or underlit (to be evaluated in Phase II)

Project Scope of Work

The following is a list of all possible energy conservation measures (ECMs) presented for the lighting upgrade project. The “In Scope” column indicates which ECMs the municipality has chosen to include in the scope of work for this Feasibility Study:

Upgrade Category	In Scope
PECO Buyback	No
Cobrahead Lighting	Yes
Decorative Lighting	Yes
Area Lighting	Yes
Traffic Signals	No

Executive Financial Summary

Below is an Executive Financial Summary. This summary table provides Total Annual Operating Cost Savings, Total Project Costs, and Payback for each ECM as well as for common Control Alternatives to be considered. Typical combinations of ECMs are provided for municipalities to consider. Additional ECM combinations are provided in the Financial Analysis and Summary section of this study.

ECM	Total Annual Operating Savings	Total Project Costs	Payback w/ Financing (Years)	Payback w/o Financing (Years)	GHG Reduction (MT/Year)
PECO Buyback	\$0	\$0			
Cobrahead (with buyback)	\$5,160	\$90,714	17.6	10.4	21.5
Decorative	\$1,847	\$90,970	49.3	29.7	3.9
Area Lighting	\$1,010	\$17,001	16.8	10.0	
Traffic Signals	\$0	\$0			
Totals	\$8,017	\$198,685	24.8	14.8	25.4

Existing Lighting System

Unmetered Streetlight Baseline

The table below represents the current lighting inventory for Unmetered Streetlights. This baseline represented in the table below was developed using information from the municipality's unmetered PECO streetlight bill(s). Though the quantities, types, and wattages of fixtures reflected on the PECO bill(s) may vary from what is actually installed in the municipality, this project's energy baseline for unmetered service will be tied to the inventory of equipment on your unmetered PECO streetlight bill. Any energy cost savings realized from upgrades to the unmetered fixtures installed in your community will be realized through changes to this PECO bill(s). If known by the municipality, this table may indicate whether a baseline fixture is style other than a cobrahead, though this classification has no impact on baseline energy use or cost.

PECO Unmetered Streetlight Baseline (Consolidated Summary of all PECO Streetlight Bills)								
Fixture Type Code	Fixture Type Description	Location Count	Fixture Quantity	Fixture Watts	Total kW	Annual Operating Hours	Total kWh/Year	Total Annual Electric Costs
Cobrahead								
05800S	Cobrahead, 70W HPS		131	94	12.3	4,092	50,389	\$3,356
09500S	Cobrahead, 100W HPS		39	131	5.1	4,092	20,906	\$1,392
16000S	Cobrahead, 150W HPS		1	192	0.2	4,092	786	\$52
LED70W	Cobrahead, 72W LED		14	70	1.0	4,092	4,010	\$267
Cobrahead Totals			185		18.6		76,091	\$5,068
Decorative								
CA-150W-HPS	Caged Acorn, 150W, HPS		41	192	7.9	4,092	32,212	\$2,145
Decorative Totals			41	192	7.9		32,212	\$2,145
Energy Usage Sub-Total			226		26.5		108,303	\$7,213
Locations	Service Locations	204						\$16,402
Total Electric Bill Costs		204						\$23,614

*Service Location Distribution Charge, also known as the "Tap Fee" is based on \$6.70 per location, per month. This is a fixed charge on your bill, and it is not impacted by the wattage of the fixture at each location. The costs associated with SLDC are expected to stay the same unless the quantity of service locations changes as a result of your RSLPP project. Estimates for any expected changes in SLDC as a result of the project will be modeled if the municipality proceeds to Phase 2, Project Development.

Metered Area Lighting Baseline

The table below represents the current lighting inventory and baseline for all metered outdoor lighting, which may include decorative, area lighting, and in some cases cobrahead lighting as well. The inventory of fixture quantities, type, wattages, and operating hours was estimated using information provided by the municipality. The energy use and cost baselines associated with this equipment were estimated according your municipality's PECO rates for metered service. Because this is a metered service, this baseline may be adjusted in Phase 2, Project Development, to reflect the actual inventory of installed equipment identified in your field audit.

Metered Area Lighting Baseline

(Municipality provided information)

Fixture Type Code	Fixture Type Description	Fixture Quantity	Fixture Watts	Total kW	Annual Operating Hours	Total kWh/Year	Total Annual Electric Costs
WP-70W-HPS	Wallpack, 70W HPS	1	94	0.1	4,092	385	\$29
SB-150W-HPS	Shoebox Area Light, 250W HPS	7	192	1.3	4,092	5,500	\$417
05800S	Cobrahead, 70W HPS	6	94	0.6	4,092	2,308	\$175
CANOPY-150W-HPS	Canopy, 150W HPS	1	192	0.2	4,092	786	\$60
CANOPY-175W-MH	Canopy, 175W MH	1	192	0.2	4,092	786	\$60
CA-150W-HPS	Caged Acorn, 150W, HPS	2	192	0.4	4,092	1,571	\$119
ACAP-175W-MH	Acorn w/ Cap, 175W, MH	2	192	0.4	4,092	1,571	\$119
BOLLARD-70W-HPS	Bollard, 70W HPS	5	94	0.5	4,092	1,923	\$146
90PARFL	PAR Lamp, 90W, INC	6	90	0.5	4,092	2,210	\$167
Total Electric Bill Costs		31		4.2		17,039	\$1,291

Design Approach and Standardized Upgrade Plan

Design Approach

The following section explains the design approach for standardized upgrade recommendations.

KLS has conducted a photometric analysis for 5 typical lighting applications in order to compare the lighting performance of a “traditional” fixture type and technology (e.g. high-pressure sodium, metal halide, mercury vapor, incandescent) with that of a new fixture using LED technology. When keeping all application details the same (e.g. road width, pole spacing, fixture mounting height, etc.) this analysis identifies LED fixtures that perform equal or better than existing older technology fixtures. An example of this photometric analysis comparison can be seen in Appendix D.

For each typical application analysis KLS evaluates illumination levels and uniformity ratios against IES RP-8 standards. Actual municipality applications will likely not match typical applications (i.e. pole spacing, fixture mounting height) and therefore will not meet IES RP-8 standards. The design goal and strategy for the RSLPP is to “meet or exceed” existing lighting performance. Performance is not solely based on illumination levels (quantity of light) but is heavily impacted by light distribution, uniformity, glare, cut-off, source-brightness and color temperature. Many of these factors impact a human’s perceived visibility of a lit environment.

Upgrade recommendations will also be advised by a less technical, but equally relevant approach, which is to utilize the general knowledge of what upgrades have worked well on previous rounds of the RSLPP and other KLS projects. This secondary assessment is be used as a sanity check to the previous analysis driven approach discussed above.

Typical Applications include:

- **Cobrahead Roadway Applications**
 - Arterial > Roadways
 - Collector > Roadways
 - Local Residential Street
- **Decorative Street Applications**
 - Commercial District
 - Local Residential Street

***Note:** The above list of Typical Applications will be expanded during Phase II, Project Development. Intersection typical designs will be considered in Phase II, when fixture location information is available. Typical designs will be provided for high and low volume Local Residential Streets in Phase II, when roadway volume information is available.*

Standardized Upgrade Plan

Based on the general design approach discussed above, the following standardized upgrade plan has been developed for this Feasibility Study.

Typical Applications and Upgrade Plan

Cobrahead Roadway & Street Applications

Arterial Roadway

Existing Lamp & Wattage	Proposed LED Fixture & Wattage	Distribution Type	Color Temp
400W High-Pressure Sodium	215W LED Cobrahead	Defined in Phase II	Defined in Phase II
400W Metal Halide	215W LED Cobrahead		
400W Mercury Vapor	215W LED Cobrahead		
250W High-Pressure Sodium	108W LED Cobrahead		
250W Metal Halide	108W LED Cobrahead		
250W Mercury Vapor	108W LED Cobrahead		

Collector Roadway

Existing Lamp & Wattage	Proposed LED Wattage	Distribution Type	Color Temp
150W High-Pressure Sodium	72W LED Cobrahead	Defined in Phase II	Defined in Phase II
175W Metal Halide	72W LED Cobrahead		
175W Mercury Vapor	72W LED Cobrahead		

Local Residential Street

Existing Lamp & Wattage	Proposed LED Wattage	Distribution Type	Color Temp
100W High-Pressure Sodium	54W LED Cobrahead	Defined in Phase II	Defined in Phase II
70W High-Pressure Sodium	35W LED Cobrahead		
100W Metal Halide	35W LED Cobrahead		
100W Mercury Vapor	35W LED Cobrahead		

Decorative Street Applications

Commercial District Street (Premium Decorative)

Existing Lamp & Wattage	Proposed LED Wattage	Distribution Type	Color Temp
150W or Less High-Pressure Sodium	63W LED Retrofit Kit	Defined in Phase II	Defined in Phase II
175W or Less Metal Halide Sodium	63W LED Retrofit Kit		

Local - High Volume Street (Standard Decorative)

Existing Lamp & Wattage	Proposed LED Wattage	Distribution Type	Color Temp
150W High-Pressure Sodium	52W LED Decorative (i.e. 4SC)	Defined in Phase II	Defined in Phase II
100W High-Pressure Sodium	38W LED Decorative (i.e. 4SC)		
70W or Less High-Pressure Sodium	25W LED Decorative (i.e. 4SC)		
100W or Less Metal Halide Sodium	25W LED Decorative (i.e. 4SC)		
100W or Less Mercury Vapor Sodium	25W LED Decorative (i.e. 4SC)		

Upgrade Details & Savings

Annual Energy Savings

The following table shows the annual energy savings for each existing fixture type and the upgrade recommendation.

Unmetered Streetlight Energy Savings

Existing							Upgrade							Savings
Fixture Type Code	Fixture Type Description	Watts/ Fixture	Fixture Quantity	Total kW	Total kWh/ Year	Annual Electric Costs	Fixture Type Code	Fixture Type Description	Watts/ Fixture	Fixture Quantity	Total kW	Total kWh/ Year	Annual Electric Costs	Annual Energy Cost Savings
Unmetered Streetlight														
Cobrahead														
05800S	Cobrahead, 70W HPS	94	131	12.3	50,389	\$3,356	CHS-35W16LED-4K	Cobrahead, 38W, LED	38	121	4.6	18,815	\$1,253	\$2,103
09500S	Cobrahead, 100W HPS	131	39	5.1	20,906	\$1,392	CHS-54W16LED-4K	Cobrahead, 53W, LED	53	44	2.3	9,543	\$636	\$757
16000S	Cobrahead, 150W HPS	192	1	0.2	786	\$52	CHM-72W32LED-4K	Cobrahead, 73W, LED	73	1	0.1	299	\$20	\$32
LED70W	Cobrahead, 72W LED	70	14	1.0	4,010	\$267	CHM-72W32LED-4K	Cobrahead, 73W, LED	70	14	1.0	4,010	\$267	\$0
Cobrahead Total			185	18.6	76,091	\$5,068				180	8.0	32,666	\$2,176	\$2,892
Decorative														
CA-150W-HPS	Caged Acorn, 150W, HPS	192	41	7.9	32,212	\$2,145	RTK-68W-4K	Decorative Retrofit Kit, 68W, LED	68	58	3.9	16,139	\$1,075	\$1,070
Decorative Total			41	7.9	32,212	\$2,145				58	3.9	16,139	\$1,075	\$1,070
Unmetered Total			226	26.5	108,303	\$7,213				238	11.9	48,805	\$3,250	\$3,962

Metered Area Lighting Energy Savings

Existing							Upgrade							Savings
Fixture Type Code	Fixture Type Description	Watts/ Fixture	Fixture Quantity	Total kW	Total kWh/ Year	Annual Electric Costs	Fixture Type Code	Fixture Type Description	Watts/ Fixture	Fixture Quantity	Total kW	Total kWh/ Year	Annual Electric Costs	Annual Energy Cost Savings
Metered Area Lighting														
Cobrahead														
05800S	Cobrahead, 70W HPS	94	6	1	2,307.9	\$175	CHS-35W16LED-4K	Cobrahead, 38W, LED	38	6	0.2	933	\$71	\$104
Cobrahead Total			6	0.6	2,308	\$175				6	0.2	933	\$71	\$104
Decorative														
CA-150W-HPS	Caged Acorn, 150W, HPS	192	2	0	1,571.3	\$119	RTK-68W-4K	Decorative Retrofit Kit, 68W, LED	68	2	0.1	557	\$42	\$77
ACAP-175W-MH	Acorn w/ Cap, 175W, MH	192	2	0	1,571.3	\$119	RTK-68W-4K	Decorative Retrofit Kit, 68W, LED	68	2	0.1	557	\$42	\$77
Decorative Total			4	0.8	3,143	\$238				4	0.3	1,113	\$84	\$154
Area Lighting														
WP-70W-HPS	Wallpack, 70W HPS	94	1	0.1	385	\$29	WP-29W-4K	Wallpack, 29W, LED	29	1	0.0	119	\$9	\$20
SB-150W-HPS	Shoebox Area Light, 250W HPS	192	7	1.3	5,500	\$417	SB-96W-4K	Shoebox, 96W, LED	96	7	0.7	2,750	\$208	\$208
CANOPY-150W-HPS	Canopy, 150W HPS	192	1	0.2	786	\$60	CANOPY-49W-4K	Canopy, 49W, LED	49	1	0.0	201	\$15	\$44
CANOPY-175W-MH	Canopy, 175W MH	192	1	0.2	786	\$60	CANOPY-49W-4K	Canopy, 49W, LED	49	1	0.0	201	\$15	\$44
BOLLARD-70W-HPS	Bollard, 70W HPS	94	5	0.5	1,923	\$146	TOPAZ-20W-COB	Corn Cob, 20W, LED	20	5	0.1	409	\$31	\$115
90PARFL	PAR Lamp, 90W, INC	90	6	0.5	2,210	\$167	18PARLED	PAR Lamp, 18W, LED	49	3	0.1	602	\$46	\$122
Area Lighting			21	2.8	11,589	\$878				18	1.0	4,280	\$324	\$554
Metered Area Lighting Total			31	4.2	17,039	\$1,291				28	1.5	6,326	\$479	\$811

Annual Maintenance Savings

The following table shows the annual maintenance savings for each existing fixture type and the upgrade recommendation. Average annual maintenance expenses were modeled for both the existing and proposed fixture types. Average annual maintenance expenses for proposed fixtures were further reduced to reflect a 1-year labor warranty and a 10-year parts warranty. The assumptions used to estimate Annual Maintenance savings are provided in Appendix B, Project Assumptions.

Unmetered Streetlight Maintenance Savings

Fixture Type Code	Fixture Type Description	Fixture Quantity	Annual Maintenance Costs	Fixture Type Code	Fixture Type Description	Fixture Quantity	Annual Maintenance Costs	Annual Maintenance Savings
Unmetered Streetlight								
Cobrahead								
05800S	Cobrahead, 70W HPS	131	\$2,263	CHS-35W16LED-4K	Cobrahead, 38W, LED	121	\$614	\$1,649
09500S	Cobrahead, 100W HPS	39	\$674	CHS-54W16LED-4K	Cobrahead, 53W, LED	44	\$244	\$430
16000S	Cobrahead, 150W HPS	1	\$17	CHM-72W32LED-4K	Cobrahead, 73W, LED	1	\$6	\$11
LED70W	Cobrahead, 72W LED	14	\$242	CHM-72W32LED-4K	Cobrahead, 73W, LED	14	\$242	\$0
Cobrahead Total		185	\$3,196			180	\$1,106	\$2,090
Decorative								
CA-150W-HPS	Caged Acorn, 150W, HPS	41	\$708	RTK-68W-4K	Decorative Retrofit Kit, 68W, LED	58	\$145	\$563
Decorative Total		41	\$708			58	\$145	\$563
Unmetered Total		226	\$3,904			238	\$1,251	\$2,654

Metered Area Lighting Maintenance Savings

Fixture Type Code	Fixture Type Description	Fixture Quantity	Annual Maintenance Costs	Fixture Type Code	Fixture Type Description	Fixture Quantity	Annual Maintenance Costs	Annual Maintenance Savings
Metered Area Lighting								
Cobrahead								
05800S	Cobrahead, 70W HPS	6	\$104	CHS-35W16LED-4K	Cobrahead, 38W, LED	6	\$30	\$73
Cobrahead Total		6	\$104			6	\$30	\$73
Decorative								
CA-150W-HPS	Caged Acorn, 150W, HPS	2	\$35	RTK-68W-4K	Decorative Retrofit Kit, 68W, LED	2	\$5	\$30
ACAP-175W-MH	Acorn w/ Cap, 175W, MH	2	\$35	RTK-68W-4K	Decorative Retrofit Kit, 68W, LED	2	\$5	\$30
Decorative Total		4	\$69			4	\$10	\$59
Area Lighting								
WP-70W-HPS	Wallpack, 70W HPS	1	\$17	WP-29W-4K	Wallpack, 29W, LED	1	\$3	\$15
SB-150W-HPS	Shoebox Area Light, 250W HPS	7	\$121	SB-96W-4K	Shoebox, 96W, LED	7	\$18	\$103
CANOPY-150W-HPS	Canopy, 150W HPS	1	\$17	CANOPY-49W-4K	Canopy, 49W, LED	1	\$3	\$15
CANOPY-175W-MH	Canopy, 175W MH	1	\$17	CANOPY-49W-4K	Canopy, 49W, LED	1	\$3	\$15
BOLLARD-70W-HPS	Bollard, 70W HPS	5	\$86	TOPAZ-20W-COB	Corn Cob, 20W, LED	5	\$15	\$71
90PARFL	PAR Lamp, 90W, INC	6	\$246	WP-49W-4K	Wallpack, 49W, LED	3	\$8	\$238
Area Lighting		21	\$505			18	\$48	\$457
Unmetered Total		31	\$677			28	\$88	\$589

Bill of Material and Project Costs

The following table shows the bill of material (BOM) for proposed upgrade scope of work. In addition to material and installation costs, a summary of DSP Fees and Program Fees are included – all per unit costs associated with, material, installation, DSP fees, and Program fees are further defined in Appendix C. Rebates from PECO and PJM (regional transmission organization) are also included in this table and further defined in Appendix B.

Fixture Type Code	Fixture Type Description	Fixture Quantity	Material Costs	Install Costs	Rebates	KLS Fees	Program Fees	Contingency	Interest Costs	Total Project Costs
Cobrahead										
CHM-72W32LED-4K	Cobrahead, 73W, LED	1	\$187	\$110	(\$7)	\$34	\$11	\$30	\$243	\$607
CHS-35W16LED-4K	Cobrahead, 38W, LED	127	\$18,106	\$13,970	(\$483)	\$4,318	\$1,178	\$3,208	\$26,636	\$66,932
CHS-54W16LED-4K	Cobrahead, 53W, LED	44	\$7,309	\$4,840	(\$2,117)	\$1,496	\$439	\$1,215	\$9,993	\$23,176
Cobrahead Total		172	\$25,602	\$18,920	(\$2,607)	\$5,848	\$1,628	\$4,452	\$36,871	\$90,714
Decorative										
RTK-68W-4K	Decorative Retrofit Kit, 68W, LED	62	\$37,014	\$9,920	(\$365)	\$2,108	\$1,513	\$4,693	\$36,086	\$90,970
Decorative Total		62	\$37,014	\$9,920	(\$365)	\$2,108	\$1,513	\$4,693	\$36,086	\$90,970
Area Lighting										
WP-29W-4K	Wallpack, 29W, LED	1	\$428	\$160	(\$4)	\$34	\$19	\$59	\$457	\$1,153
SB-96W-4K	Shoebox, 96W, LED	7	\$3,523	\$1,120	(\$40)	\$238	\$151	\$464	\$3,590	\$9,046
CANOPY-49W-4K	Canopy, 49W, LED	2	\$894	\$320	(\$137)	\$68	\$40	\$121	\$942	\$2,248
TOPAZ-20W-COB	Corn Cob, 20W, LED	5	\$288	\$250	(\$322)	\$170	\$25	\$54	\$513	\$977
WP-49W-4K	Wallpack, 49W, LED	3	\$1,340	\$480	\$0	\$102	\$60	\$182	\$1,413	\$3,578
Area Lighting Total		18	\$6,472	\$2,330	(\$504)	\$612	\$295	\$880	\$6,916	\$17,001
BOM		252	\$69,088	\$31,170	(\$3,476)	\$8,568	\$3,436	\$10,026	\$79,873	\$198,685

Financial Analysis & Summary

Payback Analysis Matrix

The payback analysis matrix is provided as a decision-making tool to assess the opportunity of ECMs available and to define a project scope that best meets the needs of the municipality. If a PECO buyback is planned prior to this project being implemented, we show the payback associated with that activity. A separate payback calculation is made for each ECM as well as for common control alternates to be considered. This section also shows typical combinations of upgrade solutions to aid with the project scoping decision.

ECM	Energy Savings	Maintenance Savings	Total Operating Savings	Material Costs	Install Costs	KLS Fees	Program Costs	Cost Contingency	Interest Costs	Rebates	Total Project Costs	Payback w/ Financing (Years)	Payback w/o Financing (Years)
PECO Buyback													
Cobrahead (with buyback)	\$2,996	\$2,164	\$5,160	\$25,602	\$18,920	\$5,848	\$1,628	\$4,452	\$36,871	(\$2,607)	\$90,714	17.6	10.4
Decorative	\$1,224	\$622	\$1,847	\$37,014	\$9,920	\$2,108	\$1,513	\$4,693	\$36,086	(\$365)	\$90,970	49.3	29.7
Area Lighting	\$554	\$457	\$1,010	\$6,472	\$2,330	\$612	\$295	\$880	\$6,916	(\$504)	\$17,001	16.8	10.0
Traffic Signals													
Totals	\$4,774	\$3,243	\$8,017	\$69,088	\$31,170	\$8,568	\$3,436	\$10,026	\$79,873	(\$3,476)	\$198,685	24.8	14.8

Cash Flow Analysis

The cash flow analysis shows how the project savings offset project costs, resulting in little to no capital outlay for this project.

Project Cash Flow (*Requested ECM Scope*)

Project Summary	
Construction Cost	\$100,258
DSP Fees	\$8,568
Program Fees	\$3,436
Contingency	\$10,026
Total Project Cost	\$122,288
Buyback Costs	\$0
Financed Amount	\$122,288
Loan Rate	4.31%
Loan Term (Years)	25
Loan Payment	\$8,086
Interest Paid	\$79,873

ECM	In Scope
PECO Buyback	No
Cobrahead Lighting	Yes
Decorative Lighting	Yes
Area Lighting	Yes
Traffic Signals	No

Period	Energy Cost Savings	Maintenance Cost Savings	Rebates	Total Savings	DSP & Program Fees	Loan Payment	Balance
Design				\$0	\$4,763		(\$4,763)
Construction				\$0	(\$4,763)		\$4,763
1	\$4,774	\$3,243	\$3,476	\$11,493		\$8,086	\$3,406
2	\$4,774	\$3,243		\$8,017		\$8,086	(\$70)
3	\$4,774	\$3,243		\$8,017		\$8,086	(\$70)
4	\$4,774	\$3,243		\$8,017		\$8,086	(\$70)
5	\$4,774	\$3,243		\$8,017		\$8,086	(\$70)
6	\$4,774	\$3,243		\$8,017		\$8,086	(\$70)
7	\$4,774	\$3,243		\$8,017		\$8,086	(\$70)
8	\$4,774	\$3,243		\$8,017		\$8,086	(\$70)
9	\$4,774	\$3,243		\$8,017		\$8,086	(\$70)
10	\$4,774	\$3,243		\$8,017		\$8,086	(\$70)
11	\$4,774	\$3,243		\$8,017		\$8,086	(\$70)
12	\$4,774	\$3,243		\$8,017		\$8,086	(\$70)
13	\$4,774	\$3,243		\$8,017		\$8,086	(\$70)
14	\$4,774	\$3,243		\$8,017		\$8,086	(\$70)
15	\$4,774	\$3,243		\$8,017		\$8,086	(\$70)
16	\$4,774	\$3,243		\$8,017		\$8,086	(\$70)
17	\$4,774	\$3,243		\$8,017		\$8,086	(\$70)
18	\$4,774	\$3,243		\$8,017		\$8,086	(\$70)
19	\$4,774	\$3,243		\$8,017		\$8,086	(\$70)
20	\$4,774	\$3,243		\$8,017		\$8,086	(\$70)
21	\$4,774	\$3,243		\$8,017		\$8,086	(\$70)
22	\$4,774	\$3,243		\$8,017		\$8,086	(\$70)
23	\$4,774	\$3,243		\$8,017		\$8,086	(\$70)
24	\$4,774	\$3,243		\$8,017		\$8,086	(\$70)
25	\$4,774	\$3,243		\$8,017		\$8,086	(\$70)
Total	\$95,478	\$64,858	\$3,476	\$163,812		\$161,729	\$2,083

Cash Flow Analysis (Cobrahead Only)

The cash flow analysis shows how the project savings offset project costs, resulting in little to no capital outlay for this project.

Project Cash Flow (Cobrahead Only)

Project Summary	
Construction Cost	\$44,522
DSP Fees	\$5,848
Program Fees	\$1,628
Contingency	\$4,452
Total Project Cost	\$56,450
Capital Contribution	\$0
Financed Amount	\$56,450
Loan Rate	4.31%
Loan Term (Years)	16
Loan Payment	\$4,956
Interest Paid	\$22,846

ECM	In Scope
PECO Buyback	No
Cobrahead Lighting	Yes
Decorative Lighting	No
Area Lighting	No
Traffic Signals	No

Period	Energy Cost Savings	Maintenance Cost Savings	Rebates	Total Savings	DSP & Program Fees	Loan Payment	Balance
Design				\$0	\$4,763		(\$4,763)
Construction				\$0	(\$4,763)		\$4,763
1	\$2,996	\$2,164	\$2,607	\$7,767		\$4,956	\$2,811
2	\$2,996	\$2,164		\$5,160		\$4,956	\$204
3	\$2,996	\$2,164		\$5,160		\$4,956	\$204
4	\$2,996	\$2,164		\$5,160		\$4,956	\$204
5	\$2,996	\$2,164		\$5,160		\$4,956	\$204
6	\$2,996	\$2,164		\$5,160		\$4,956	\$204
7	\$2,996	\$2,164		\$5,160		\$4,956	\$204
8	\$2,996	\$2,164		\$5,160		\$4,956	\$204
9	\$2,996	\$2,164		\$5,160		\$4,956	\$204
10	\$2,996	\$2,164		\$5,160		\$4,956	\$204
11	\$2,996	\$2,164		\$5,160		\$4,956	\$204
12	\$2,996	\$2,164		\$5,160		\$4,956	\$204
13	\$2,996	\$2,164		\$5,160		\$4,956	\$204
14	\$2,996	\$2,164		\$5,160		\$4,956	\$204
15	\$2,996	\$2,164		\$5,160		\$4,956	\$204
16	\$2,996	\$2,164		\$5,160		\$4,956	\$204
17	\$2,996	\$2,164		\$5,160		\$0	\$5,160
18	\$2,996	\$2,164		\$5,160		\$0	\$5,160
19	\$2,996	\$2,164		\$5,160		\$0	\$5,160
20	\$2,996	\$2,164		\$5,160		\$0	\$5,160
Total	\$59,923	\$43,273	\$2,607	\$105,802		\$79,296	\$26,506

Phase 1 Action Items

The purpose of this Feasibility Study is to provide an assessment of the opportunity associated with the upgrade of a municipalities existing outdoor lighting system to LED, which may include roadway and area lighting fixtures as well as traffic signals. This study will act as a decision-making tool for your municipality to decide whether to proceed to Phase 2 of the RSLPP, Project Development. Project Development Phase will include comprehensive audits, design and analysis resulting in a final project design proposal.

The following is a list of action items for municipality staff, management and council members to aid finalizing the Feasibility Study and presenting the opportunity for council consideration and a decision on whether to continue to Phase 2, Project Development.

Staff/Management Action Items

- ☐ Municipal Staff/Management - provide additional data to improve or clarify the Feasibility Study
- ☐ KLS - make final modifications to the Feasibility Study
- ☐ Municipal Staff/Management – final approval of Feasibility Study
- ☐ Municipal Staff/Management – establish position on agenda for relevant committee or council meetings
- ☐ Municipal Staff/Management – prepare packet information with Feasibility Study for relevant committee or council meetings
- ☐ Municipal Staff/Management – continue to build awareness and provide preliminary updates to other municipality staff and management as well as council members

Council Action Items

- ☐ KLS – present summary of Feasibility Study to relevant committee or council meetings
- ☐ Municipality Solicitor – Review resolutions and contracts required to proceed to the Project Development Phase
- ☐ Council – Review, analyze and discuss Feasibility Study with municipality staff and management and KLS
- ☐ Council – Take action to approve or reject decision to continue to the Project Development Phase and authorize municipality management to sign Project Development Phase contract with KLS.

Appendix A:

RSLPP Phase Overview

Phase 1: Feasibility: Data-driven analysis of upgrade opportunities resulting in a no-cost Feasibility Study.

- Municipalities receive a data-driven, no-cost Feasibility Study showing estimated savings, project costs, rebates and financial payback. This study is developed by KLS using data, information, and input provided by the municipality.
- **Municipalities use the Feasibility Study as a tool to decide whether to proceed to Phase 2 and contract with KLS for Project Development Services.**
- The RSLPP Project Team provides a contract form and resolution for municipalities to proceed to Phase 2.

Phase 2: Project Development: Field audits, design and analysis resulting in a final design project proposal.

- KLS conducts field audits of the municipality's existing lighting system showing GPS location and attributes of each fixture. KLS also conducts a comprehensive and standardized design of upgraded lighting system.
- KLS develops and DVRPC issues solicitations and contracts for materials, distributor, and installation contractor for the purpose of arranging cooperative purchasing agreements that municipalities are able to piggyback off of.
- The RSLPP Project Team organizes a pool of financing for municipalities who wish to finance their projects.
- KLS prepares final design proposal showing forecasted savings, final project costs, rebates, and financial payback.
- **Municipalities use the Final Design Proposal as a tool to decide whether to proceed to Phase 3, Construction.**
- The RSLPP Project Team provides a contract form and resolution for contracting between municipality and installation contractor for construction (the construction contract). Municipalities piggyback off of DVRPC's installation contract for construction.
- Municipalities that finance participate in the pool of financing arranged by the RSLPP.

Phase 3: Construction: Comprehensive Installation Services and Project Management of Installation including reporting and issue resolution during construction.

- Construction, including the procurement of all equipment, is provided by the RSLPP selected installation contractor according to the municipality's construction contract.
- KLS provides robust project management services ensuring consistent communication of progress and issue resolution.
- KLS manages the municipality's PECO Bill Updates and the applicable rebate application processes.

Phase 4: Post Construction Operations and Maintenance Confirmation of project savings and strategies for on-going maintenance.

- KLS provides the municipalities strategies for maintaining new system and on-going standardization, verification of project savings, and (if desired) prepare and/or update municipality lighting ordinances.
-

Appendix B:

Project Assumptions

The following assumptions were used in the development of this Feasibility Study:

1) Energy use

a. Un-metered:

i. **Streetlights:** Energy use for un-metered streetlight service is calculated by PECO using the following algorithm:

1. $\text{kWh} = \text{Billed Wattage of fixture} \times \text{quantity of fixture} \times 4092 \text{ (annual operating hours)} / 1000$

ii. **Traffic Signals:** Energy use for un-metered traffic signal service is calculated by PECO using the following algorithm:

1. $\text{kWh} = \text{Billed Wattage of fixture} \times \text{quantity of fixture} \times \text{annual operating hours (yellow} = 175.2 \text{ hours; green} = 3766.8 \text{ hours; red} = 4819 \text{ hours)} / 1000$.

b. **Metered:** Energy use for metered fixtures is calculated using the estimated wattage of each fixture X annual operating hours (4092 hours assumed for all metered streetlight fixtures and area lighting, while a lower number of hours may be used for other outdoor lighting types if provided or indicated by the municipality)/1000.

2) Energy Costs:

a. Across the entire RSLPP, energy costs were estimated according to the following PECO rates included in PECO's Proposed Tariff Electric Pa. P.U.C. No. 6, filed as a 2018 Electric Distribution Rate Case with the Pennsylvania Public Utility Commission.

i. SL-E, SL-S, SL-C, TSLs, and GS.

b. KLS used the generation supply rate listed for each PECO account on the utility bills supplied by the municipality.

3) Maintenance cost savings

a. Average annual maintenance expenses were modeled for both the existing and proposed fixture types.

i. Maintenance expenses are based on the probability a component (e.g. lamp, ballast/driver, fixture, photocell) will fail multiplied by the material and labor replacement cost. Failure probability is based on the annual operating hours of a component divided by its published rated or expected life.

b. Use of average annual maintenance expenses assumes that both the existing and new lighting systems have a standard distribution fixture and component ages. Average annual maintenance expenses for proposed LED fixtures were further reduced by 50% to reflect a 1-year labor warranty, a 10-year parts warranty and the expected life of a new fixture and its components.

4) Project rebates: There are two rebate types available to municipalities in the RSLPP:

a. **PECO Smart Ideas:** Through Phase 3 of Act 129, PECO's offers lighting rebates to municipal customers. These rebates vary from \$25 - \$75 per streetlight and vary from \$10 - \$60 for metered area lighting depending on the watts reduced by each fixture conversion. Rebates have been estimated in Phase 1 based on the scope of work included in this Feasibility Study. Municipalities that proceed to Phase 2 will have a pre-application submitted on their behalf by the KLS to PECO based on the scope of work

defined in the municipality's Final Design Proposal. Submitting a pre-application will "reserve" rebates for municipalities that proceed to Phase 3, construction.

- b. **PJM:** PJM, the Regional Transmission Operator for this region offers rebates for outdoor lighting projects through its Capacity Market. Energy efficiency projects can receive PJM Capacity Market rebates for the first four years that a project is installed based on the kW reductions of the project, and the price/kW of this rebate is determined by a "forward auction" in each utility territory within PJM. The current rate for these incentives in PECO territory ranges from \$18.70-\$28.90 per kW reduced depending on the year. The PJM Capacity Market rebate has been estimated based on the scope of work defined in this Feasibility Study, the associated kW reduction and a \$15.00 per kW rebate. Municipalities that proceed to Phase 3 (Construction) of the RSLPP will have the opportunity to have receive this rebate through a RSLPP-arranged aggregator.

5) Project Contingency

- a. For project budgeting we used a 10% contingency.

6) Material & Installation Costs

- a. RSLPP Round I costs, with some minor adjustments to reflect price increases for labor, were used for material and installation.

7) Financing

- a. For financing forecasts, a 4.5% interest rate was used.
-

Appendix C:

DSP & Program Fees Breakdown

Design Service Professional (KLS) Unit Pricing

DVRPC conducted a comprehensive RFP process to identify and select a design services professional to support all four Phases of the RSLPP. Municipalities are able to “piggy-back” off the DVRPC’s cooperative purchasing agreement for DSP services. The table below not only defines the final DSP unit priced fee structure but also shows the assumed volume for your project and the total associated fees. The finance resolution provided for RSLPP municipalities who wish to proceed to Phase 2, Project Development, includes provisions for reimbursement of Project Development Phase fees with a financing package put in place for the Construction Phase.

DSP Unit Price Schedule and Payment Milestones					
DSP Service Item	KLS Unit Price (Fee) Schedule	KLS Billing Milestones	Fixture & Signal Quantity	DSP Fees	DVRPC Program Fees
Project Development (Phase II)					
Field Audit	\$9/Fixture	100% at Completion of audit (if less than 1 month); Otherwise on monthly auditing progress	252	\$2,268	\$113
Field Audit (Traffic Signals)	\$8/Signal (not lamp)		0	\$0	\$0
Mapping	\$1/Fixture or Signal		252	\$252	\$13
Design	\$7/Fixture or Signal	50% at Preliminary Design Review; 50% at Final Design Review	252	\$1,764	\$88
Design (Traffic Signals)	\$6/Signal (not lamp)		0	\$0	\$0
Utility bill update & rebate processes	\$1/Fixture or Signal	50% at Final Utility Bill Update; 50% at Final Rebate Submittal	252	\$252	\$13
Project Development Sub-Total				\$4,536	\$227
Construction Project Management (Phase III)					
Project Management Services	\$10/Fixture or Signal	20% at Pre-Construction Meeting; Remainder on Monthly Installation Progress Billing	252	\$2,520	
PECO Buyback	\$5/Fixture (with max fee of \$5,000 and min fee of \$1,000)	At Buyback Completion		\$0	
Field deployable installation data capture	\$3/Fixture or Signal	Monthly Installation Progress Billing	252	\$756	
Project Management Sub-Total				\$3,276	\$3,008
Post-Construction Services (Phase IV)					
Project annual Energy and Operational Savings Report	\$1/Fixture or Signal	100% at Report Delivery	252	\$252	
Operations and Maintenance Plan for a municipality's new LED system.	\$1/Fixture or Signal	100% at Plan Delivery	252	\$252	
Development of Operation and Maintenance Manual	\$1/Fixture or Signal	100% at Manual Delivery	252	\$252	
Development or update of a lighting ordinance	\$1,000/municipality (minimum)	Estimated Cost Between \$1,000 - \$10,000	0	\$0	
Project Management Sub-Total				\$756	
Total				\$8,568	\$3,235

DVRPC Program Fees

The following Program Fees have been established by DVRPC to allow DVRPC to recoup the upfront costs DVRPC has incurred for program development, program management, and for the development and issuance of contracts and solicitations associated with material, distributor, installation contractor, and finance. These fees are reflected throughout this Feasibility Study as “Program Fees”:

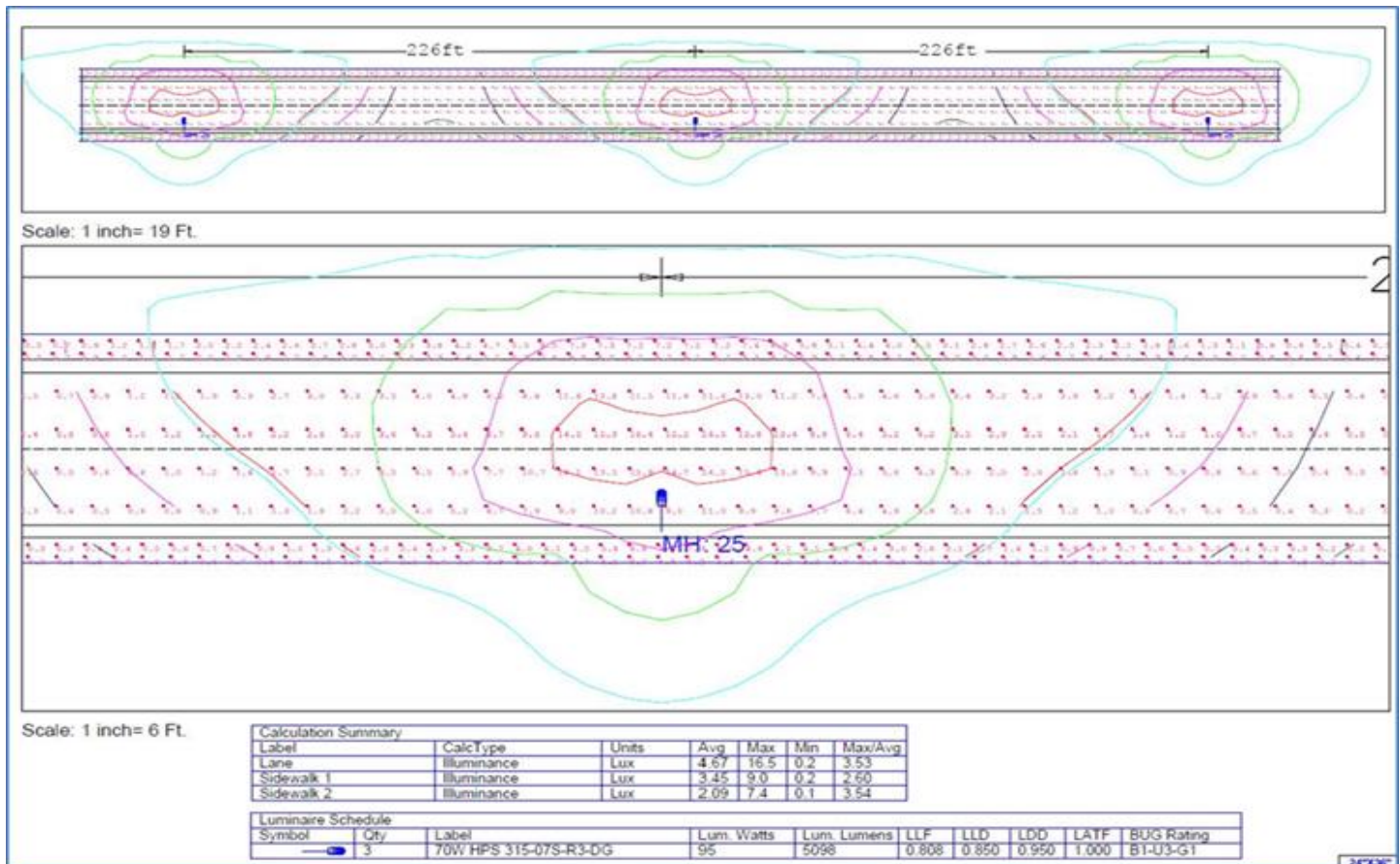
- 5% of DSP Total Fees
 - Up to 3% of Construction Costs (Material & Installation costs only).
 - 3% has been used as a conservative estimate for this Feasibility Study.
-

Appendix D:

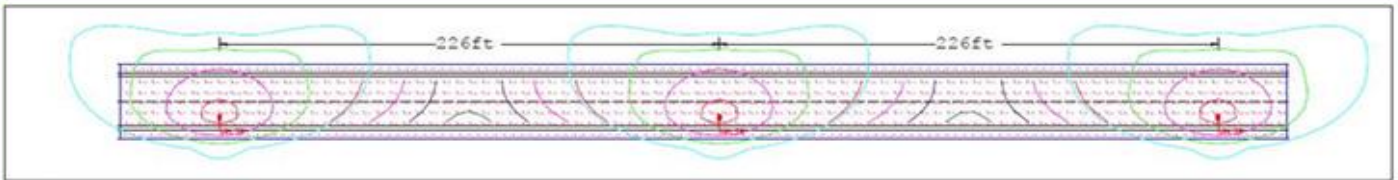
Photometric Analysis Example

The photometric comparison below shows how a traditional fixture and technology compares to a similar style fixture using LED technology. With all application specifications the same for both it allows for a fair comparison between the existing and new lighting solutions.

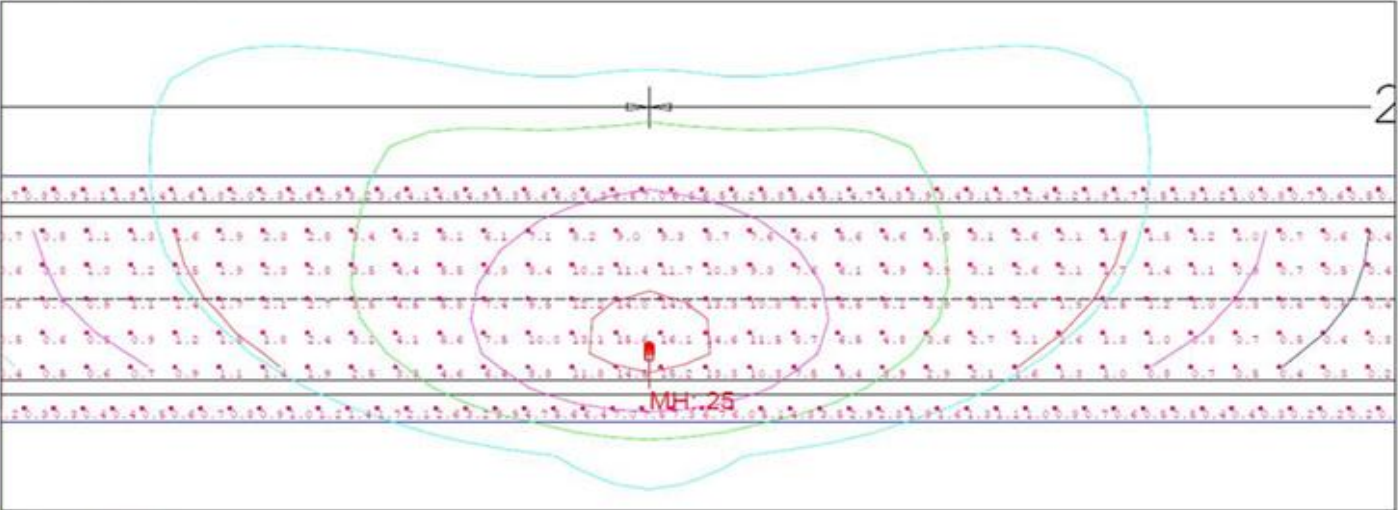
Traditional 70W High-Pressure Sodium Cobrahead on a Local Street



New 35W LED Cobrahead on a Local Street




Scale: 1 inch= 20 Ft.



Scale: 1 inch= 6 Ft.

Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Max/Avg
Lane	Illuminance	Lux	4.24	16.3	0.2	3.33
Sidewalk 1	Illuminance	Lux	3.09	7.0	0.2	1.86
Sidewalk 2	Illuminance	Lux	2.22	7.5	0.1	3.03

Luminaire Schedule									
Symbol	Qty	Label	Lum. Watts	Lum. Lumens	LLF	LLD	LOD	LATF	BUG Rating
	3	RFS-35W16LED4K-T-R3M	38	4030	0.903	0.950	0.950	1.000	B1-U0-G1

100%

**BOROUGH OF NORTH WALES
RESOLUTION 2019-008
A RESOLUTION TO ESTABLISH A CEMETERY PRESERVATION FUND**

WHEREAS, North Wales Borough, (the “Borough”) is the beneficiary of the St. Luke’s Cemetery Preservation Trust Fund, established many years ago by St. Luke’s United Church of Christ; and

WHEREAS, St. Luke’s United Church of Christ had previously sold their Church building to the Borough, and as part of that agreement transferred ownership of the St. Luke’s Cemetery to the care and control of the Borough; and

WHEREAS, the purpose of the St. Luke’s Cemetery Preservation Trust Fund is to reimburse the Borough for services and costs necessary for the preservation of the St. Luke’s Cemetery, located on East Walnut Street, Tax Parcel Number 14-00-03348-00-4, in the Borough of North Wales; and

WHEREAS, the Borough agrees that they will not remove funds from this account for the weekly grass cutting, snow removal or minor maintenance of the cemetery; funding shall be used wisely and judiciously to preserve the history of the cemetery and sacred grounds through community education and awareness, preservation of the gravestones and their markings, and repairs of the like pertaining to same; and

WHEREAS, the Borough Manager and Council President shall be designated as signatories on the Trust Fund, requiring both signatures for the transfer of any funds to the Borough for reimbursement of services and costs.

NOW, THEREFORE, BE IT RESOLVED, AND IT IS HEREBY RESOLVED:

1) The Borough Council designated the individuals holding the following offices as signatories for the St. Luke’s Cemetery Preservation Trust Fund held at a Bank or Institution determined by the Borough:

- A. North Wales Borough Manager
- B. North Wales Borough Assistant Manager
- C. President of North Wales Borough Council

2) The designated signatories shall, as soon as possible, execute the necessary documents with the Bank currently holding the funds to insure their ability to access the funds and pay proper and necessary bills as provided herein.

ADOPTED this 22nd day of January 2019.

BOROUGH COUNCIL OF THE
BOROUGH OF NORTH WALES

BY: _____
James Sando, President

ATTEST:

Christine A. Hart, Secretary



Boucher & James, Inc.
CONSULTING ENGINEERS

AN EMPLOYEE OWNED COMPANY
INNOVATIVE ENGINEERING

Fountainville Professional Building
1456 Ferry Road, Building 500
Doylestown, PA 18901
215-345-9400
Fax 215-345-9401

2756 Rimrock Drive
Stroudsburg, PA 18360
570-629-0300
Fax 570-629-0306
Mailing:
P.O. Box 699
Bartonsville, PA 18321

559 Main Street, Suite 230
Bethlehem, PA 18018
610-419-9407
Fax 610-419-9408

www.bjengineers.com

January 8, 2019

RECEIVED
JAN 14 2019

BY: 

Ms. Christine Hart, Borough Manager
North Wales Borough
300 School Street
North Wales, PA 19454-31367

SUBJECT: 2019 MUNICIPAL RATE SCHEDULE

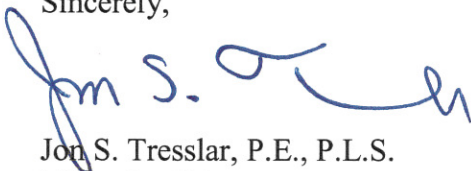
Dear Christine:

I am writing to thank you and the Borough Council for the opportunity for **Boucher & James, Inc.** to serve as Borough Engineer and Building Inspector in 2018. I am submitting our rate schedule for professional services for North Wales Borough for the year 2019 which reflects a 5% increase.

Our fees are based upon the attached rate schedule, the complexity of the work performed, technology expenses, efficiencies and other similar factors for services rendered such as meetings, plan reviews, research, ordinance and report preparation, professional consultation and related services.

We look forward to working with you again in 2019. Should you have any questions or concerns, please feel free to contact me at your convenience as my assistance and cooperation are assured.

Sincerely,

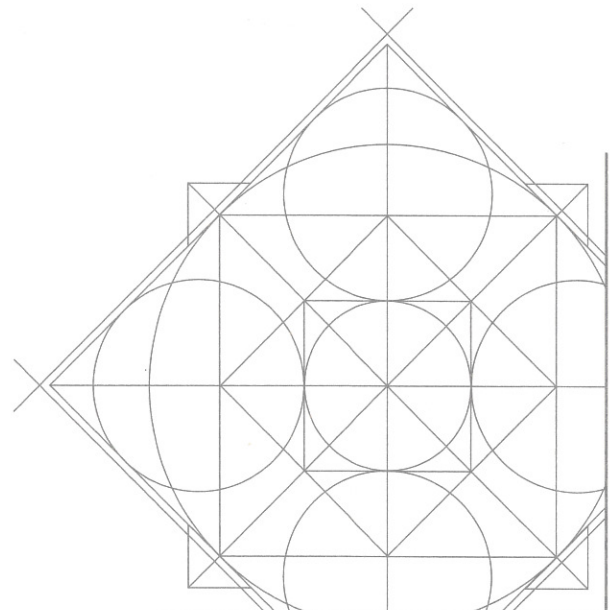


Jon S. Tresslar, P.E., P.L.S.
Managing Director

JST/kam

Enclosure

I:\Admin\RATESCHE\2019 Rates\North Wales Borough 2019 Rate Schedule Letter.docx



NORTH WALES BOROUGH
2019 RATE SCHEDULE

101	Engineer I	\$100.00
102	Engineer II	\$ 94.00
141	Designer I	\$ 84.00
142	Designer II	\$ 79.00
151	CAD Operator I	\$ 67.00
152	CAD Operator II	\$ 65.00
200	Chief Surveyor	\$100.00
201	Surveyor, PLS	\$ 94.00
211	Survey Technician I	\$ 79.00
212	Survey Technician II	\$ 74.00
215	Technician	\$ 63.00
232	Survey Crew - 2 Men	\$122.00
234	Survey Crew w/Robotics	\$122.00
401	Planner/Landscape Architect I	\$100.00
402	Planner/Landscape Architect II	\$ 94.00
411	Planner/Designer I	\$ 92.00
500	Construction Coordinator	\$ 79.00
501	Construction Observer I	\$ 68.00
502	Construction Observer II	\$ 63.00
505	Chief Construction Observer	\$ 74.00
600	Environmental Hydrogeologist	\$100.00
610	Environmental Scientist	\$ 94.00
630	Environmental Technician	\$ 67.00
700	Building Inspector I (Certified)	\$ 66.00
702	Building Inspector II	\$ 64.00
710	Zoning Officer/Code Enforcement	\$ 68.00
901	Principal	\$122.00
920	Administrative Assistant	\$ 51.00
923	Project Coordinator	\$ 84.00

Reimbursable expenses to be billed with a 15% administrative processing fee.

Borough of North Wales
BILLS LIST
January 2019

Date	Name	Split	Amount
0120020 - ACCOUNTS PAYABLE			
01/08/2019	DELAWARE VALLEY HEALTH TRUST	-SPLIT-	\$ 9,068.53
01/08/2019	RESERVE ACCOUNT	0140635 · POSTAGE 1406325	\$ 200.00
01/08/2019	VOYAGER FLEET SYSTEMS INC.	0141033 · GASOLINE, POLICE	\$ 723.46
01/08/2019	VERIZON WIRELESS	-SPLIT-	\$ 194.57
01/08/2019	SWIF - STATE WORKERS' INSURANCE FUND	0148410 · FIRE CO WORKERS COMP	\$ 1,608.00
01/08/2019	HOME DEPOT CREDIT SERVICES	0143020 · SUPPLIES 1430200	\$ 166.21
01/08/2019	PENNSYLVANIA MUNICIPAL RETIREMENT SYSTEM	0148731 · MANAGEMENT/CONSULTING SERVICES	\$ 100.00
01/08/2019	D.E. WALKER & SON, INC.	0140923 · HEATING FUEL 1409230	\$ 475.27
01/08/2019	D.E. WALKER & SON, INC.	0140923 · HEATING FUEL 1409230	\$ 454.56
01/08/2019	D.E. WALKER & SON, INC.	0140923 · HEATING FUEL 1409230	\$ 321.93
01/08/2019	D.E. WALKER & SON, INC.	0140923 · HEATING FUEL 1409230	\$ 285.77
01/22/2019	BOUCHER & JAMES INC.	24200 · Accrued Expenses	\$ 921.02
01/22/2019	MONTGOMERY COUNTY TREASURER	0140330 · OTHER SERVICES AND CHARGES	\$ 75.00
01/22/2019	PECO 70344-01702 BORO HALL	0140936 · ELECTRICITY 1409361	\$ 459.25
01/22/2019	PECO 63863-01003 PW GARAGE	0143023 · HEATING FUEL 1430230	\$ 800.26
01/22/2019	PECO 02951-60039 HESS PARK	0145436 · ELECTRICITY 1459461	\$ 14.90
01/22/2019	PECO 79323-09073 125 N MAIN	0140936 · ELECTRICITY 1409361	\$ 85.03
01/22/2019	PECO 63864-01609 WALNUT SQUARE	0145436 · ELECTRICITY 1459461	\$ 24.99
01/22/2019	PECO 66955-01103 PW GARAGE	0143361 · ELECTRICITY 1430361	\$ 144.98
01/22/2019	PECO 32937-01304 BORO HALL	0140923 · HEATING FUEL 1409230	\$ 598.98
01/22/2019	PA ONE CALL SYSTEM INC.	0143321 · COMMUNICATIONS - PHONE 143	\$ 8.14
01/22/2019	HAINES & ASSOCIATES COURT REPORTING	0141439 · COURT STENO	\$ 200.00
01/22/2019	KELLNER'S LAWN & LEISURE	0143260 · SUPPLIES - SMALL TOOLS	\$ 22.95
01/22/2019	MOBILE LIFTS INC.	0143375 · VEHICLE MAINT/REPAIRS 1430375	\$ 456.50
01/22/2019	MONTGOMERY COUNTY BOROUGH'S ASSOC.	-SPLIT-	\$ 150.00
01/22/2019	UNUM LIFE INSURANCE COMPANY	0148620 · LTD/STD/LIFE	\$ 608.34
01/22/2019	U. S. BANK EQUIPMENT FINANCE	0140637 · REPAIRS/MAINTENANCE	\$ 185.23
01/22/2019	RALPH K. BADMANN CORP.	0143374 · EQUIPMENT REPAIRS	\$ 270.49
01/22/2019	ROMEO'S FINE ARTS	0140131 · PROFESSIONAL SERVICES	\$ 90.00
01/22/2019	METRO ELEVATOR CO.	0140937 · REPAIRS/MAINTENANCE SERVICES	\$ 106.61
01/22/2019	NWWA	24200 · Accrued Expenses	\$ 116.86
01/22/2019	NWWA	24200 · Accrued Expenses	\$ 29.30
01/22/2019	21st CENTURY MEDIA - PHILLY CLUSTER	24200 · Accrued Expenses	\$ 571.42
01/22/2019	SIANA BELLWOAR & MCANDREW LLP	24200 · Accrued Expenses	\$ 2,005.50
01/22/2019	RUBIN GLICKMAN STEINBERG & GIFFORD	24200 · Accrued Expenses	\$ 3,000.00
01/22/2019	JL REYES ACCOUNTING & TAX SERVICE LLC	24200 · Accrued Expenses	\$ 900.00
01/22/2019	WITMER PUBLIC SAFETY GROUP INC.	24200 · Accrued Expenses	\$ 1,777.26
01/22/2019	MAGIC SHINE CAR WASH	24200 · Accrued Expenses	\$ 6.00
01/22/2019	MAGIC SHINE CAR WASH	24200 · Accrued Expenses	\$ 10.00
01/22/2019	ALLEY AUTOMOTIVE	0141037 · VEHICLE MAINT/REPAIRS	\$ 941.20
01/22/2019	NAPA AUTO PARTS	24200 · Accrued Expenses	\$ 36.29
01/22/2019	RICHARD HAGY	0140922 · OPERATING EXP	\$ 120.00
01/22/2019	PA STATE ASSOC OF BOROUGHES	0140042 · DUES, SUBSCRIPTIONS	\$ 694.00
01/22/2019	PA STATE ASSOC OF BOROUGHES	0140042 · DUES, SUBSCRIPTIONS	\$ 140.00

Borough of North Wales
BILLS LIST
January 2019

	Date	Name	Split	Amount
Total 0120020 - GENERAL OPERATING				\$ 29,168.80
	01/22/2019	PECO 67276-01407 STREET LIGHTS	-SPLIT-	\$ 1,269.93
	01/22/2019	VALLEY POWER INC.	-SPLIT-	\$ 14.50
Total 0220020 - STREET LIGHTS				\$ 1,284.43
	01/22/2019	PECO 79540-01509 WEINGARTNER	1945436 - ELECTRICITY 1945436	\$ 19.62
Total 1920020 - WEINGARTNER FUND				\$ 19.62
	01/08/2019	DELVAL	-SPLIT-	\$ 44,541.95
Total 3220020 - CAPITAL EQUIPMENT				\$ 44,541.95
	01/22/2019	PECO 82667-00208 RED LIGHT	3543336 - ELECTRICITY/SIGNAL	\$ 9.64
Total 3520020 - LIQUID FUELS				\$ 9.64
				\$ 75,024.44

History Commission's Annual Report for 2018

January 2018's meeting was cancelled

February 20, 2018

Joanne Matthews read the Annual Report for 2017 year. Beth Ann Sinotte gave the Treasurer's report, we have \$1,414.12 in our account. Daniela Hilpl read the notes from our last meeting that took place October 17, 2017. The following are the items that were discussed at this meeting: The members discussed if we wanted 5 or 7 members going forward on the History Commission. The board voted on keeping 5 members. Dan Natalie will be working on our website going forward. There were several donations dropped off from John Roar, Barbara Peoples and Ruth Black. The time capsule in Weingartner park is covered and no one knows exactly where it is. Beth Ann Sinotte's Husband will be looking for it on February 21, 2018. Dick Shearer asked for the surrounding area Historical Societies to help each other out with advertising each other's events to boost attendance. There was discussion about doing a float for the 150th celebration or not. We will need an idea by August 2019 if we want to do a float. Lastly, we had a history lesson about the Sanctuary Methodist Church in North Wales, now is the Racquet Ball Club.

April 17, 2018

There was not a meeting in March 2018 because we moved Mike Szilagyi's presentation from March to April. Mike's presentation was called: History of North Wales Land and Improvement. We did have a meeting after his presentation. Joanne Matthews called the meeting to order at 8:25 pm. The Officers were elected and are as follows: Chair/President Joanne Matthews; Vice President Daniel Natale; Secretary Daniela Hilpl; Heritage Plaques Phyllis Byrne; Treasurer Beth Ann Sinotte and alternate Mike Szilagyi. Dan Natalie let us know that our site needs updating by 2019. 150th Celebration committee will be meeting May 10th, 2018 and all are welcomed. The History Commission will play a part in helping the 150th committee. The time capsule was found! The members will continue to keep the plaque on the capsules free of debris. Joanne Matthews expressed interested in others stepping up and leading the History Commission. Beth Ann Sinotte suggested a mentor program so we all can learn each other's positions. Dan Natalie will be posting our and surrounding societies' agenda for upcoming events.

May 15, 2018

Jim Cherry and Reggie did a presentation on A Salute to Veterans of a Past Wars.

June 19, 2018

Mike Szilagyi did a presentation on The Trolley Comes to North Wales

July- There was not a meeting this month

August 21, 2018

Joanne Matthews called the meeting to order at 7:00 pm. Daniel Natalie announced he was leaving and Mike Szilagyi, our alternate, will submit his letter to take Daniel's place. Also, we will need to find someone that can update our website. Joanne Matthews said she will reach out to the surrounding societies to see who they use. Representatives from the 150th Committee joined our meeting and asked us for help with pictures for their book, doing a float, getting a table at Community day, maybe creating

2 events to get people interested in the history of North Wales: a trolley ride along and a Cemetery tour. At our next meeting on September 26, 2018 we will be hosting the surrounding History Societies to join forces and help each other come up with ideas to promote history awareness in our communities.

September 26, 2018

Representatives from Lansdale, Wissahickon and Richland attended our meeting. We collaborated on finding new ways to draw more people to our events. All of us will share our events on each other's sites. We went around the table to talk about what we have coming up and what we would like to do in the future.

October 16, 2018

This meeting was spent picking out pictures for the 150th Celebration Book. Each member walked the Halls of History and chose the pictures they felt were best to represent the history of North Wales. Then we came together to sort and categorize the pictures in order of importance. Daniela Hilpl will type up the list of pictures and send it to the 150th Celebration Committee.

October was the last meeting of the year. There was not a meeting in November or December 2018.

North Wales Borough Parks and Recreation

Meeting Minutes

January 10, 2019

Present: Shannon Cline, James Cherry, Martha Lottes, Neil McDevitt, Lynne Fitzgerald
(Gina Jansen- Absent- feel better!)

Next meeting: Thursday, February 14, 2019, 7:00 PM – Borough Hall

I. Items for Discussion

Shannon Cline reviewed and submitted recommendations for 3 movies-in-the park. We discussed and agree with the movies presented and will select when it is closer to summer. June (Lego movie, Dumbo, How to Train Your Dragon, Wonder Park). July – “Christmas in July”, The Grinch; August – “Old School” – Free Willy.

II. Roundtable

It is going to be quite a busy year with all the activities scheduled for The 150th. We held a discussion on how Park and Recs can get on board as a team not only to assist and participate, but provide an event in the parks for all that would get both Children and Adults to the Parks and explain a bit of their history. Splitting up into teams, we would man Weingartner, Hess, Wee Whalers, and explain how the park actually became one, and what the history of the particular piece of land was. Neil McDevitt suggested beginning to dig to see if we can gather photos and information on each to provide a historical presentation of parks. We will continue to work on this.

Other great ideas include: Providing a “passport” type of game to the parks, where you can visit and get stamped for your visit with a prize and recognition of visiting the parks at the end (Gina).

A treasure hunt that would provide clues of historical clues regarding particular parks that would have to be answered and followed to gain the treasure and complete for a prize. Discussion to be continued.

Respectfully submitted on behalf of Parks and Recs,

Lynne M. Fitzgerald



Senator Maria

COLLETT



In partnership with
Representatives

**Liz HANBIDGE &
Steve MALAGARI**



Invite you to a

HOME HEATING WORKSHOP

Thursday, January 24, 2019

4:30 p.m. – 6 p.m.

North Wales Borough Hall

300 School St., North Wales, PA

*Representatives from the PA Dept. of
Human Services will discuss Universal
Service Programs such as Customer
Assistance Program (CAP), LIHEAP
grants, the CARES program, Smart
Comfort, and the
Dollar Energy Fund.*



For more information contact Rachel Fingles at 215-284-8604 • rachel.fingles@pasenate.com

www.SenatorCollett.com