# ELECTRIC DEPARTMENT

## 2020

## BUDGET PRESENTATION

## TO CITY COUNCIL

**AUGUST 19, 2019**

**CITY OF NEWARK, DELAWARE**
**ELECTRIC DEPARTMENT**
**EXECUTIVE SUMMARY**

**EXPENDITURE BUDGET**

| Object Level Detail: | | FY2019 Appr'd | | FY2020 Rec'd | | FY2019 App'd vs. FY2020 Rec'd | % +/- over FY2019 Appr'd | Comments |
|---|---|---|---|---|---|---|---|---|
| *Full-time Wages* | | *1,770,477* | | *1,818,424* | | *47,947* | *2.71%* | |
| *Part-time Wages* | | *-* | | *-* | | *-* | *#DIV/0!* | |
| *Other Wages* | | *317,814* | | *266,636* | | *(51,178)* | *-16.10%* | |
| *Benefits* | | *1,212,372* | | *1,428,638* | | *216,266* | *17.84%* | |
| Personnel Services | $ | 3,300,663 | $ | 3,513,698 | | 213,035 | 6.45% | *Sum of above listed wages and benefits |
| Utility Purchases | $ | 33,570,788 | $ | 34,527,671 | | 956,883 | 2.85% | |
| Materials and Supplies | $ | 310,830 | $ | 303,380 | | (7,450) | -2.40% | |
| Contractual Services | $ | 1,684,820 | $ | 1,692,867 | | 8,047 | 0.48% | |
| Depreciation | $ | 278,832 | $ | 192,675 | | (86,157) | -30.90% | *Finance Calculation |
| Other Expenditures | $ | 1,013,288 | $ | 1,072,058 | | 58,770 | 5.80% | |
| **Subtotal:** | **$** | **40,159,221** | **$** | **41,302,349** | **$** | **1,143,128** | **2.85%** | |
| Inter-Dept. Charges | $ | 705,156 | $ | 870,996 | | 165,840 | 23.52% | Reflects the cost share of City overhead which includes: Accounting, Electricity Used, Information Technology, Mailroom and Postage, Printing and Reproduction, Records and Utility Billing |
| Inter-Dept. Sales | $ | 506,900 | $ | 413,100 | | (93,800) | -18.50% | |
| **Total Operating Expenses:** | **$** | **41,371,277** | **$** | **42,586,445** | **$** | **1,215,168** | **2.94%** | |
| Full-time Positions | | 23 | | 23 | | 0 | | No change in FTE from FY2019 to FY2020 |

**CAPITAL IMPROVEMENT PLAN (CIP)**

| Project ID: | Project Description: | Comments |
|---|---|---|
| New projects: | | |
| E2001 | New Lines and Services | New Project |
| E2002 | New Substation | New Project |
| Ongoing projects | | |
| E1911 | 34kV Line 3402 Capacity Upgrade | Project listed in 2019-2023 CIP |
| E1912 | 35kV Disconnect Switches Replacement - Kershaw Substation | Project listed in 2019-2023 CIP |
| E1805 | Line Extension - UD Farm | Project listed in 2019-2023 CIP |
| E1806 | Christianstead Cable Addition | Project listed in 2019-2023 CIP |
| E1807 | Relay Replacements - Kershaw Substation | Project listed in 2019-2023 CIP |
| E1808 | Voltage Upgrade - North College Avenue | Project listed in 2019-2023 CIP |
| E1809 | 12.47kV Line Extension | Projected to be completed by EOY 2019 |
| E1810 | Lightning Arrestor Replacement | Project listed in 2019-2023 CIP |
| E1602 | Circuit Breaker Replacement | Project listed in 2019-2023 CIP |
| E1502 | Underground Distribution - UD Star Campus | Project listed in 2019-2023 CIP |
| E1203 | CAD Software | Project listed in 2019-2023 CIP |
| E0503 | SCADA and Automatic Switching | Project listed in 2019-2023 CIP |
| E8510 | Transformer Maintenance (was once BF#6) | Project listed in 2019-2023 CIP |
| EEQSF | Equipment Replacement Program | Project listed in 2019-2023 CIP |

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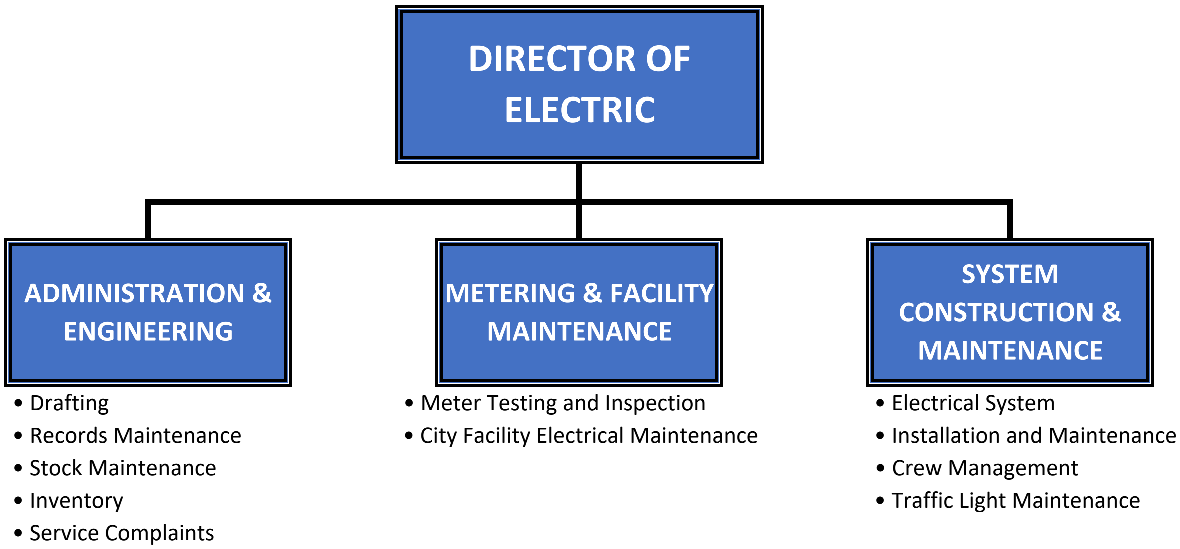
# CITY OF NEWARK, DELAWARE
## ELECTRIC DEPARTMENT
## ORGANIZATIONAL CHART



**CITY OF NEWARK, DELAWARE**
**ELECTRIC DEPARTMENT**
**2020 DEPARTMENTAL NARRATIVE**



The City of Newark operates its own electric utility to provide electric services to 13,000 meters, supporting commercial and residential customers within city limits. Power is purchased on the wholesale power market and delivered by the City. The electric department is responsible for maintaining 175 miles of electric lines and coordinates is services through several programs. They include:

**Meter Relay and Electrical Maintenance Program:**

Responsible for installing and maintaining electrical systems in city buildings, water wells, water and wastewater pumping stations, traffic lights and control systems, meters, and other facilities.

**Electrical Line Construction and Maintenance Program:**

Responsible for maintaining the City's electric lines, substation sites, substation units, circuit breakers, and transformers.

In addition to maintaining the City's electrical distribution system, new power lines, substations and underground electric utilities are constructed and installed to expand services to new customers. Additional departmental responsibilities include maintaining and installing street lights and traffic signals, trimming trees along the electric right-of-way, and providing distribution and sub-transmission switching and sectionalizing. The electric department's staff is also responsible for plans review, drawings, and engineering analysis for construction work.

**CITY OF NEWARK, DELAWARE**
**ELECTRIC DEPARTMENT**
**2019 DEPARTMENTAL ACCOMPLISHMENTS**



**Key accomplishments in 2019 include:**

- The extension of 12kV distribution line along Christina Parkway. This line extension will provide increased capacity and back-up capacity for the Star Campus. This extension will also tie Sandy Brae substation transformer 64 to Chestnut Hill road transformers 74 and 94 to provide back-up capacity. The project is in progress, and we are on track to complete this project by the end of this year.

- The installation of 12kV distribution automation system. This 12kV distribution automation system will increase reliability to the UD Center Campus and North Campus as well as minimize our substation outages. The project is in progress, and we are on track to complete this project by the first quarter of 2020.

- Joined the APPA's Reliable Public Power Provider (RP3) Program. The Association's RP3 program is based on industry-recognized leading practices in for important disciplines:

    - Reliability
    - Safety
    - Workforce Development
    - System Improvement

- Being recognized by the PR3 program demonstrates to the community leaders, governing board members, suppliers, and service providers a utility's commitment to its employees, customers, and community. Additionally, an RP3 designation is a sign of a utility's dedication to operating an efficient, safe, and reliable distribution system.

- Electric cost of service and rate study.

**CITY OF NEWARK, DELAWARE**
**ELECTRIC DEPARTMENT**
**2020 DEPARTMENTAL GOALS**



**Goals for 2020 include:**

- In 2019, more 12kV reclosers will be installed to improve reliability.

- A 12kV distribution line will be extended at UD Farm to ensure capacity and reliable back-up capacity to the Star Campus, The University of Delaware South Campus and City customers on South College Avenue.

- The old 35kV oil circuit breaker will be replaced at Fremont Road substation.

- Old electromechanical relays at Kershaw substation will be replaced with microprocessor-based replays.

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# ELECTRIC DEPARTMENT

# GENERAL OPERATING BUDGET

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

**Electric Fund - Electric Department**

**Expenditures:**

| ELECTRIC DEPARTMENT - SUMMARY | 2017 ACTUAL | 2018 ACTUAL | 2019 BUDGET AS AMENDED | 2020 BUDGET | $ DIFFERENCE FROM 2019-20 | % DIFFERENCE FROM 2019-20 |
|---|---|---|---|---|---|---|
| **REVENUES** | | | | | | |
| Sale of Electricity | $ 52,050,273 | $ 51,626,068 | $ 52,608,369 | $ 54,056,896 | $ 1,448,527 | 2.8% |
| No. of K.W.H.'s (Thousands) | 415,969 | 425,918 | 436,756 | 444,863 | 8,107 | 1.9% |
| Inter-Dept. Charges | 555,400 | 508,100 | 506,900 | 413,100 | (93,800) | -18.5% |
| Penalties | 96,723 | 80,000 | 95,000 | 98,800 | 3,800 | 4.0% |
| Service Fees | 84,697 | 55,000 | 65,000 | 81,800 | 16,800 | 25.8% |
| New Services | 133,631 | 40,000 | 125,000 | 250,000 | 125,000 | 100.0% |
| Application Fees | 102,210 | 115,000 | 107,000 | 102,000 | (5,000) | -4.7% |
| Solar Revenues | 42,412 | 41,500 | 39,600 | 36,600 | (3,000) | -7.6% |
| Other Revenues | 160,523 | 47,000 | 45,780 | 43,210 | (2,570) | -5.6% |
| Interest Revenue | 122,330 | 65,000 | 125,000 | 151,100 | 26,100 | 20.9% |
| **Subtotal** | $ 53,348,199 | $ 52,577,668 | $ 53,717,649 | $ 55,233,506 | $ 1,515,857 | 2.8% |
| No. of K.W.H.'s (Thousands) | 460,219 | 456,650 | 470,837 | 478,577 | 7,740 | 1.6% |
| **Gross Operating Revenue** | $ 53,348,199 | $ 52,577,668 | $ 53,717,649 | $ 55,233,506 | $ 1,515,857 | 2.8% |
| **OPERATING EXPENSES** | | | | | | |
| Personnel Services | $ 2,977,781 | $ 3,324,613 | $ 3,300,663 | $ 3,513,698 | $ 213,035 | 6.5% |
| Utility Purchases | 33,699,575 | 33,547,114 | 33,570,788 | 34,527,671 | 956,883 | 2.9% |
| Materials and Supplies | 238,318 | 215,348 | 310,830 | 303,380 | (7,450) | -2.4% |
| Contractual Services | 1,330,729 | 1,862,677 | 1,684,820 | 1,692,867 | 8,047 | 0.5% |
| Other Charges | 1,097,567 | 1,046,899 | 1,292,120 | 1,264,733 | (27,387) | -2.1% |
| **Subtotal** | $ 39,343,970 | $ 39,996,651 | $ 40,159,221 | $ 41,302,349 | $ 1,143,128 | 2.8% |
| Inter-Departmental Charges (net of Inter-Departmental Sales) | 1,010,354 | 1,173,798 | 1,212,056 | 1,284,096 | 72,040 | 5.9% |
| **Total Operating Expenses** | $ 40,354,324 | $ 41,170,449 | $ 41,371,277 | $ 42,586,445 | $ 1,215,168 | 2.9% |
| **Net Operating Margin (Before Capital Costs)** | **$ 12,993,875** | **$ 11,407,219** | **$ 12,346,372** | **$ 12,647,061** | **$ 300,689** | **2.4%** |

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

## Electric Fund - Electric Department

**Expenditures:**

| PERSONNEL SERVICES | | 2017 ACTUAL | 2018 ACTUAL | 2019 BUDGET AS AMENDED | 2020 BUDGET | $ DIFFERENCE FROM 2019-20 | % DIFFERENCE FROM 2019-20 |
|---|---|---|---|---|---|---|---|
| 5195102 | 6020 Supervisory | $ 308,336 | $ 211,475 | $ 219,551 | $ 233,153 | $ 13,602 | 6.2% |
| 5195102 | 6030 Engineering/Technical | 285,154 | 297,420 | 313,352 | 323,677 | 10,325 | 3.3% |
| 5195102 | 6040 Warehousing | 56,197 | 58,056 | 60,509 | 67,579 | 7,070 | 11.7% |
| 5195102 | 6080 Clerical | 61,977 | 65,066 | 65,819 | 67,766 | 1,947 | 3.0% |
| 5195102 | 6200 Line Maintenance | 789,806 | 983,398 | 1,111,246 | 1,126,249 | 15,003 | 1.4% |
| 5195102 | 6580 Service Award | 40,470 | 37,752 | 39,594 | 42,035 | 2,441 | 6.2% |
| 5195102 | 6590 Sick Pay | 22,798 | 21,386 | 24,700 | 26,518 | 1,818 | 7.4% |
| 5195102 | 6619 Standby Pay | 29,658 | 35,357 | 36,720 | 38,083 | 1,363 | 3.7% |
| 5195102 | 6620 Overtime | 143,861 | 141,999 | 200,000 | 145,000 | (55,000) | -27.5% |
| 5195102 | 6622 Holiday Premium | 1,283 | 699 | - | - | - | 0.0% |
| 5195102 | 6880 Uniform Allowance | 9,450 | 10,600 | 10,800 | 9,600 | (1,200) | -11.1% |
| 5195102 | 6885 Device Reimbursement | - | 5,725 | 6,000 | 5,400 | (600) | -10.0% |
| 5195102 | 6920 Unemployment Comp. Ins. | 7,962 | 6,890 | 6,072 | 6,600 | 528 | 8.7% |
| 5195102 | 6930 Social Security Taxes | 142,315 | 145,958 | 148,437 | 154,059 | 5,622 | 3.8% |
| 5195102 | 6940 City Pension Plan | 437,000 | 695,008 | 441,280 | 559,161 | 117,881 | 26.7% |
| 5195102 | 6941 Defined Contribution 401(a) Plan | 21,093 | 22,360 | 25,206 | 30,608 | 5,402 | 21.4% |
| 5195102 | 6950 Term Life Insurance | 7,485 | 7,378 | 7,647 | 7,680 | 33 | 0.4% |
| 5195102 | 6960 Group Hospitalization Ins. | 405,814 | 408,707 | 445,525 | 500,581 | 55,056 | 12.4% |
| 5195102 | 6961 Long-Term Disability Ins. | 2,991 | 2,997 | 3,172 | 4,106 | 934 | 29.4% |
| 5195102 | 6962 Dental Insurance | 25,855 | 23,930 | 25,198 | 27,420 | 2,222 | 8.8% |
| 5195102 | 6963 Flexible Spending Account | 184 | 173 | 126 | 63 | (63) | -50.0% |
| 5195102 | 6965 Post-Employment Benefits | 165,539 | 132,090 | 98,090 | 125,098 | 27,008 | 27.5% |
| 5195102 | 6966 Retirement Health Savings Account | 6,326 | 6,350 | 7,000 | 8,526 | 1,526 | 21.8% |
| 5195102 | 6967 Emergency Room Reimbursements | 4,988 | 2,612 | 3,335 | 3,335 | - | 0.0% |
| 5195102 | 6968 Vision Insurance Premiums | 1,239 | 1,227 | 1,284 | 1,401 | 117 | 9.1% |
| **TOTAL PERSONNEL SERVICES** | | **$ 2,977,781** | **$ 3,324,613** | **$ 3,300,663** | **$ 3,513,698** | **$ 213,035** | **6.5%** |

**ELECTRIC DEPARTMENT**
**WAGE AND SALARY BUDGET - 2020**

| Title | Union Affiliation | Grade | 2019 # of Positions | | 2019 Approved | 2020 # of Positions | | 2020 Requested | Position Difference | | $ Difference | % Change |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **FULL TIME POSITIONS** | | | | | | | | | | | | |
| Director Of Electric | MGMT | 34 | 1.0 | $ | 111,126 | 1.0 | $ | 117,882 | 0.0 | $ | 6,756 | 6.1% |
| Deputy Director Of Electric | MGMT | 31 | 1.0 | $ | 108,425 | 1.0 | $ | 115,271 | 0.0 | $ | 6,846 | 6.3% |
| Electric Superintendent | MGMT | 26 | 1.0 | $ | 92,893 | 1.0 | $ | 98,481 | 0.0 | $ | 5,588 | 6.0% |
| Engineering Tech | CWA F/T | 14 | 1.0 | $ | 67,072 | 1.0 | $ | 69,620 | 0.0 | $ | 2,548 | 3.8% |
| Purchasing Asst | CWA F/T | 13 | 1.0 | $ | 65,819 | 1.0 | $ | 67,766 | 0.0 | $ | 1,947 | 3.0% |
| Senior Lineman | AFSCME LOCAL 3919 F/T | 19 | 2.0 | $ | 175,307 | 2.0 | $ | 178,761 | 0.0 | $ | 3,454 | 2.0% |
| Electric Mtr. Tech. | AFSCME LOCAL 3919 F/T | 17 | 1.0 | $ | 84,589 | 1.0 | $ | 86,247 | 0.0 | $ | 1,658 | 2.0% |
| Electrician | AFSCME LOCAL 3919 F/T | 17 | 3.0 | $ | 244,279 | 3.0 | $ | 252,056 | 0.0 | $ | 7,777 | 3.2% |
| Lineman 1st Class | AFSCME LOCAL 3919 F/T | 17 | 5.0 | $ | 415,867 | 5.0 | $ | 423,704 | 0.0 | $ | 7,837 | 1.9% |
| Lineman 2nd Class | AFSCME LOCAL 3919 F/T | 14 | 2.0 | $ | 142,003 | 2.0 | $ | 135,659 | 0.0 | $ | (6,344) | -4.5% |
| Junior Lineman | AFSCME LOCAL 3919 F/T | 10 | 1.0 | $ | 56,110 | 2.0 | $ | 114,440 | 1.0 | $ | 58,330 | 104.0% |
| Electric Groundhand | AFSCME LOCAL 3919 F/T | 5 | 3.0 | $ | 146,478 | 2.0 | $ | 90,958 | (1.0) | $ | (55,520) | -37.9% |
| Storekeeper | AFSCME LOCAL 3919 F/T | 10 | 1.0 | $ | 60,509 | 1.0 | $ | 67,579 | 0.0 | $ | 7,070 | 11.7% |
| **Total Full-Time Positions** | | | **23.0** | **$** | **1,770,477** | **23.0** | **$** | **1,818,424** | **0.0** | **$** | **47,947** | **2.7%** |
| **OTHER** | | | | | | | | | | | | |
| Service Award | | | | $ | 39,594 | | $ | 42,035 | | $ | 2,441 | 6.2% |
| Sick Pay | | | | $ | 24,700 | | $ | 26,518 | | $ | 1,818 | 7.4% |
| Standby Pay | | | | $ | 36,720 | | $ | 38,083 | | $ | 1,363 | 3.7% |
| Overtime | | | | $ | 200,000 | | $ | 200,000 | | $ | - | 0.0% |
| Uniform Allowance | | | | $ | 10,800 | | $ | 9,600 | | $ | (1,200) | -11.1% |
| Device Reimbursements | | | | $ | 6,000 | | $ | 5,400 | | $ | (600) | -10.0% |
| **Total Other** | | | | **$** | **317,814** | | **$** | **321,636** | | **$** | **3,822** | **1.2%** |
| **Total All** | | | **23.0** | **$** | **2,088,291** | **23.0** | **$** | **2,140,060** | **0.0** | **$** | **51,769** | **2.5%** |

**CITY OF NEWARK, DELAWARE**
**2020 OPERATING BUDGET**

**Electric Fund - Electric Department**

**Expenditures:**

| MATERIALS AND SUPPLIES | | 2017 ACTUAL | 2018 ACTUAL | 2019 BUDGET AS AMENDED | 2020 BUDGET | $ DIFFERENCE FROM 2019-20 | % DIFFERENCE FROM 2019-20 |
|---|---|---|---|---|---|---|---|
| 5195103 | 7110 Safety Shoes and Supplies | $ 5,520 | $ 6,571 | $ 6,300 | $ 6,600 | $ 300 | 4.8% |
| 5195103 | 7130 Tools, Field Sup., & Small Eq. | 37,819 | 34,672 | 39,650 | 40,000 | 350 | 0.9% |
| 5195103 | 7131 Information Technology Supplies | - | 3,227 | 30,000 | 30,000 | - | 0.0% |
| 5195103 | 7140 Uniforms | 20,840 | 20,639 | 20,800 | 20,800 | - | 0.0% |
| 5195103 | 7150 Office Supplies | 1,257 | 2,949 | 4,500 | 3,500 | (1,000) | -22.2% |
| 5195103 | 7160 Books, Periodicals, Etc | 1,451 | 462 | 680 | 780 | 100 | 14.7% |
| 5195103 | 7260 Line Maintenance | 120,782 | 98,889 | 110,000 | 110,000 | - | 0.0% |
| 5195103 | 7270 Station Maintenance | 39,621 | 26,829 | 57,200 | 50,000 | (7,200) | -12.6% |
| 5195103 | 7300 Machinery & Equip. Maintenance | - | - | 500 | 500 | - | 0.0% |
| 5195103 | 7330 Meter Testing & Repairs | 225 | 150 | 2,000 | 2,000 | - | 0.0% |
| 5195103 | 7350 Traffic Signal Maintenance | 495 | - | 950 | 950 | - | 0.0% |
| 5195103 | 7370 Street Light Maintenance | 8,688 | 4,200 | 13,000 | 13,000 | - | 0.0% |
| 5195103 | 7430 House Service Maintenance | 20,719 | 19,461 | 23,500 | 23,500 | - | 0.0% |
| 5195103 | 7480 Communication Equip. Maint. | 557 | - | 500 | 500 | - | 0.0% |
| 5195103 | 7540 Inventory Adjustment | (20,648) | (7,970) | - | - | - | 0.0% |
| 5195103 | 7550 Miscellaneous Supplies | 992 | 5,269 | 1,250 | 1,250 | - | 0.0% |
| **TOTAL MATERIALS AND SUPPLIES** | | **$ 238,318** | **$ 215,348** | **$ 310,830** | **$ 303,380** | **$ (7,450)** | **-2.4%** |

CITY OF NEWARK, DELAWARE
2020 OPERATING BUDGET

**Electric Fund - Electric Department**

**Expenditures:**

| CONTRACTUAL SERVICES | | 2017 ACTUAL | 2018 ACTUAL | 2019 BUDGET AS AMENDED | 2020 BUDGET | $ DIFFERENCE FROM 2019-20 | % DIFFERENCE FROM 2019-20 |
|---|---|---|---|---|---|---|---|
| 5195104 | 8010 Freight | $ 115 | $ 848 | $ 950 | $ 950 | $ - | 0.0% |
| 5195104 | 8020 Advertising | 749 | 641 | 800 | 800 | - | 0.0% |
| 5195104 | 8030 Casualty Insurance | 19,923 | 18,083 | 20,665 | 20,700 | 35 | 0.2% |
| 5195104 | 8031 Insurance - Property | 27,864 | 44,008 | 39,445 | 40,470 | 1,025 | 2.6% |
| 5195104 | 8032 Insurance - Auto | 12,740 | 24,682 | 24,990 | 25,327 | 337 | 1.3% |
| 5195104 | 8033 Insurance - Broker | 6,660 | 8,072 | 7,930 | 7,936 | 6 | 0.1% |
| 5195104 | 8035 Insurance - Worker's Compensation | - | - | - | 93,500 | 93,500 | 100.0% |
| 5195104 | 8040 Merchant Fees and Discounts | 529,143 | 531,696 | 590,000 | 590,000 | - | 0.0% |
| 5195104 | 8050 Phone/Communications | 10,203 | 4,434 | 6,000 | 2,950 | (3,050) | -50.8% |
| 5195104 | 8120 Outside Engineering (1) | 40,428 | 62,430 | 131,000 | 50,000 | (81,000) | -61.8% |
| 5195104 | 8130 Building & Equipment Rental | 10,264 | 10,888 | 14,000 | 14,000 | - | 0.0% |
| 5195104 | 8131 Information Technology Cont'l | 168,469 | 143,454 | 239,188 | 216,276 | (22,912) | -9.6% |
| 5195104 | 8190 Refuse Disposal | 4,063 | 3,197 | 2,400 | 3,425 | 1,025 | 42.7% |
| 5195104 | 8260 Line Maintenance | 62,826 | 38,282 | 53,200 | 53,200 | - | 0.0% |
| 5195104 | 8270 Station Maintenance | 44,479 | 40,446 | 75,000 | 75,000 | - | 0.0% |
| 5195104 | 8300 Machinery & Equip. Maintenance | 5,927 | 4,992 | 8,120 | 8,120 | - | 0.0% |
| 5195104 | 8311 Vehicle Accidents | - | (1,450) | - | - | - | 0.0% |
| 5195104 | 8312 Fleet & Facilities Services | 167,153 | 716,786 | 218,138 | 229,579 | 11,441 | 5.2% |
| 5195104 | 8420 Tree Removal | 214,520 | 206,555 | 230,000 | 241,500 | 11,500 | 5.0% |
| 5195104 | 8480 Communication Equip. Maint. | - | 1,115 | 1,060 | 1,200 | 140 | 13.2% |
| 5195104 | 8550 Misc. Contracted Services | 4,203 | 2,402 | 5,000 | 5,000 | - | 0.0% |
| 5195104 | 8570 Public Relations | - | 116 | 14,000 | 10,000 | (4,000) | -28.6% |
| 5195104 | 8899 Facilities Mowing | 1,000 | 1,000 | 2,934 | 2,934 | - | 0.0% |
| **TOTAL CONTRACTUAL SERVICES** | | **$ 1,330,729** | **$ 1,862,677** | **$ 1,684,820** | **$ 1,692,867** | **$ 8,047** | **0.5%** |

(1) Includes additional funding for 2017 rate study.

**CITY OF NEWARK, DELAWARE**
**2020 OPERATING BUDGET**

**Electric Fund - Electric Department**

**Expenditures:**

| OTHER CHARGES | | | 2017 ACTUAL | | 2018 ACTUAL | | 2019 BUDGET AS AMENDED | | 2020 BUDGET | | $ DIFFERENCE FROM 2019-20 | % DIFFERENCE FROM 2019-20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5195105 | 9001 | Subvention - Utility Assistance | $ | - | $ | - | $ | 25,000 | $ | 25,000 | $ - | 0.0% |
| 5195105 | 9002 | Subvention - Aetna Hook and Ladder | | - | | - | | 48,400 | | 48,400 | - | 0.0% |
| 5195105 | 9004 | Subvention - Newark Senior Center | | - | | - | | 60,000 | | 60,000 | - | 0.0% |
| 5195105 | 9010 | Bad Debt Expense | | 190,119 | | 129,369 | | 120,000 | | 170,769 | 50,769 | 42.3% |
| 5195105 | 9020 | Mileage & Small Bus. Expense | | 87 | | 2 | | 140 | | 140 | - | 0.0% |
| 5195105 | 9056 | Debt Service Principal-Smart Meters | | 526,828 | | 537,805 | | 549,024 | | 560,477 | 11,453 | 2.1% |
| 5195105 | 9057 | Debt Service Interest-Smart Meters | | 93,307 | | 82,305 | | 71,624 | | 60,172 | (11,452) | -16.0% |
| 5195105 | 9060 | Depreciation Expense | | 189,580 | | 201,740 | | 278,832 | | 192,675 | (86,157) | -30.9% |
| 5195105 | 9070 | Training & Continuing Educ/Conf | | 11,228 | | 9,891 | | 15,100 | | 25,100 | 10,000 | 66.2% |
| 5195105 | 9091 | Solar Rebate | | 1,516 | | 1,754 | | - | | - | - | 0.0% |
| 5195105 | 9092 | Notional Solar Cost | | 23,724 | | 22,552 | | 24,000 | | 22,000 | (2,000) | -8.3% |
| 5195105 | 9093 | Subvention Expense | | 60,134 | | 60,321 | | - | | - | - | 0.0% |
| 5195105 | 9094 | Conservation Advisory Committee | | 1,044 | | 1,160 | | 100,000 | | 100,000 | - | 0.0% |
| **TOTAL OTHER CHARGES** | | | **$** | **1,097,567** | **$** | **1,046,899** | **$** | **1,292,120** | **$** | **1,264,733** | **$ (27,387)** | **-2.1%** |

| INTER-DEPT. CHARGES | | 2017 ACTUAL | | 2018 ACTUAL | | 2019 BUDGET AS AMENDED | | 2020 BUDGET | | $ DIFFERENCE FROM 2019-20 | % DIFFERENCE FROM 2019-20 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Administrative Overhead | $ | 672,271 | $ | 700,685 | $ | 743,108 | $ | 816,609 | $ 73,501 | 9.9% |
| | Billings and Accounting | | 308,049 | | 492,026 | | 442,890 | | 478,497 | 35,607 | 8.0% |
| | Electricity | | (397,166) | | (387,895) | | (360,187) | | (331,319) | 28,868 | -8.0% |
| | Information Technology | | 83,848 | | 86,381 | | 68,930 | | 90,296 | 21,366 | 31.0% |
| | Other Indirect Charges | | (40,022) | | (65,069) | | (24,700) | | (24,700) | - | 0.0% |
| | Printing and Reproduction | | 135 | | 125 | | 182 | | 182 | - | 0.0% |
| | Street Lights and Traffic Signals | | (143,745) | | (169,331) | | (143,812) | | (134,512) | 9,300 | -6.5% |
| | Warehousing | | (28,416) | | (38,464) | | (21,255) | | (24,057) | (2,802) | 13.2% |
| **TOTAL INTER-DEPT. CHARGES** | | **$** | **454,954** | **$** | **618,458** | **$** | **705,156** | **$** | **870,996** | **$ 165,840** | **23.5%** |

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# ELECTRIC DEPARTMENT

# CAPITAL IMPROVEMENTS PROGRAM

**CITY OF NEWARK, DELAWARE**
**CAPITAL IMPROVEMENTS PROGRAM 2020-2024**
**(with current year amended budget)**

## ELECTRIC FUND - ELECTRIC DEPARTMENT

| | F U N D I N G | | S U M M A R Y | | | |
|---|---|---|---|---|---|---|
| | **2020** | **2021** | **2022** | **2023** | **2024** | **Total 5 Year** |
| **New Funding:** | $ 1,417,000 | $ 975,000 | $ 1,410,000 | $ 1,038,000 | $ 15,945,000 | $ 20,785,000 |
| ***Prior Authorized Balance:** | $ 64,606 | $ - | $ - | $ 2,000,000 | $ - | $ 2,064,606 |
| **2020-2024 Funding:** | $ 1,481,606 | $ 975,000 | $ 1,410,000 | $ 3,038,000 | $ 15,945,000 | $ 22,849,606 |

*Prior Authorized Balance includes 2019 carryover funding only.

| PROJECT NUMBER | PROJECT NAME | * | 2019 BUDGET AS AMENDED | \|------2020------\| RESERVES AND OTHER FUNDING | CURRENT FUNDING | 2020 | 2021 | 2022 | 2023 | 2024 | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| E2001 | New Lines and Services | D | $ 125,000 | $ - | $ 130,000 | $ 130,000 | $ 135,000 | $ 140,000 | $ 145,000 | $ 145,000 | $ 695,000 |
| E2002 | New Substation | B | 2,000,000 | - | 300,000 | 300,000 | - | - | 2,000,000 | 15,700,000 | 18,000,000 |
| E1911 | 34kV Line 3402 Capacity Upgrade | D | - | - | - | - | 250,000 | 250,000 | - | - | 500,000 |
| E1912 | 35kV Disconnect Switches Replacement - Kershaw Substation | D | - | - | - | - | 150,000 | 150,000 | 150,000 | - | 450,000 |
| E1805 | Line Extension - UD Farm | D | 170,000 | - | 150,000 | 150,000 | - | - | - | - | 150,000 |
| E1806 | Christianstead Cable Addition | D | - | - | - | - | 50,000 | - | - | - | 50,000 |
| E1807 | Relay Replacements - Kershaw Substation | D | - | - | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | - | 200,000 |
| E1808 | Voltage Upgrade - North College Avenue | D | - | - | 50,000 | 50,000 | - | - | - | - | 50,000 |
| E1809 | 12.47kV Line Extension | D | 100,000 | - | - | - | - | - | - | - | - |
| E1810 | Lightning Arrestor Replacement | D | - | - | - | - | - | - | 235,000 | - | 235,000 |
| E1602 | Circuit Breaker Replacement | D | - | - | 70,000 | 70,000 | - | - | - | - | 70,000 |
| E1502 | Underground Distribution - UD Star Campus | D | 120,000 | 120,000 | - | 120,000 | 120,000 | 120,000 | 120,000 | - | 480,000 |
| E1203 | CAD Software | D | 40,444 | 40,444 | - | 40,444 | - | - | - | - | 40,444 |
| E0503 | SCADA and Automatic Switching | D | 655,000 | - | 250,000 | 250,000 | - | 450,000 | - | - | 700,000 |
| E8510 | Transformer Maintenance (was once BF#6) | B | - | 24,162 | - | 24,162 | - | - | - | - | 24,162 |
| EEQSF | Equipment Replacement Program | D | 218,000 | 239,284 | 57,716 | 297,000 | 220,000 | 250,000 | 338,000 | 100,000 | 1,205,000 |
| | **Total Electric Fund - Electric Department** | | **$ 3,428,444** | **$ 423,890** | **$ 1,057,716** | **$ 1,481,606** | **$ 975,000** | **$ 1,410,000** | **$ 3,038,000** | **$ 15,945,000** | **$ 22,849,606** |

| **PLANNED FINANCING SOURCES** | 2019 BUDGET AS AMENDED | RESERVES AND OTHER FUNDING | CURRENT FUNDING | 2020 | 2021 | 2022 | 2023 | 2024 | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| GROSS CAPITAL IMPROVEMENTS | $ 3,428,444 | $ 423,890 | $ 1,057,716 | $ 1,481,606 | $ 975,000 | $ 1,410,000 | $ 3,038,000 | $ 15,945,000 | $ 22,849,606 |
| LESS: USE OF RESERVES | (40,444) | (64,606) | - | (64,606) | - | - | (2,000,000) | - | (2,064,606) |
| VEHICLE & EQUIPMENT REPLACEMENT | (149,600) | (239,284) | - | (239,284) | (162,761) | (176,500) | (216,230) | (56,576) | (851,351) |
| GRANTS | - | - | - | - | - | - | - | - | - |
| BOND ISSUES | - | - | - | - | - | - | - | (15,700,000) | (15,700,000) |
| OTHER FINANCING SOURCES | (120,000) | (120,000) | - | (120,000) | (120,000) | (120,000) | (120,000) | - | (480,000) |
| NET CAPITAL IMPROVEMENTS | $ 3,118,400 | $ - | $ 1,057,716 | $ 1,057,716 | $ 692,239 | $ 1,113,500 | $ 701,770 | $ 188,424 | $ 3,753,649 |

* Justification Codes:
- A - Return on Investment
- B - Public Safety
- C - Community Health
- D - Efficiency/Other

*Prior Authorized Balance includes 2019 carryover funding only.

**PROJECT NO:** E2001

**PROJECT TITLE:** New Lines and Services

**PROJECT STATUS:** Reoccurring (with no end date)

**FUNDING SUMMARY:**

| | 2020 | 2021 | 2022 | 2023 | 2024 | Total 5 Year |
|---|---|---|---|---|---|---|
| New Funding: | $ 130,000 | $ 135,000 | $ 140,000 | $ 145,000 | $ 145,000 | $ 695,000 |
| *Prior Authorized Balance: | $ - | $ - | $ - | $ - | $ - | $ - |
| 2020-2024 Funding: | $ 130,000 | $ 135,000 | $ 140,000 | $ 145,000 | $ 145,000 | $ 695,000 |

## CAPITAL BUDGET - PROJECT DETAIL

| | |
|---|---|
| DEPARTMENT: | Electric |
| DIVISION: | Electric |
| FUND: | Electric |
| PROJECT LOCATION: | Various locations in the City |
| PROJECT PRIORITY: | 1 - Highest Priority Level<br>Project underway and must be completed |
| COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT: | Sustainable Community |

## Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:

Installation of electric distribution lines in new developments. This includes both overhead and underground primary and secondary service lines. This project is required based on the obligation to serve new customers in the City.

## § 806.1(3) SUMMARY OF PROJECT DATA

| | |
|---|---|
| First Year in Program: | Perpetual |
| Est. Completion Date: | Perpetual |
| Est. Useful Life (in years): | 30 Yrs. |
| Est. Total Cost: | $ 820,000 |
| Est. Spend @ 12/31/2019 (if underway)[1]: | $ 125,000 |
| % Complete (if underway): | 15.2% |
| Balance to be funded[1]: | $ 695,000 |

[1] For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

## PROJECT COST BY CATEGORY

| CLASSIFICATION | ACCOUNT NUMBER | AMOUNT |
|---|---|---|
| Labor: | 5195106.9860 | $ 375,300 |
| Materials: | 5195106.9760 | $ 319,700 |
| Other Contracts: | | $ - |
| TOTAL PROJECT COST | | $ 695,000 |

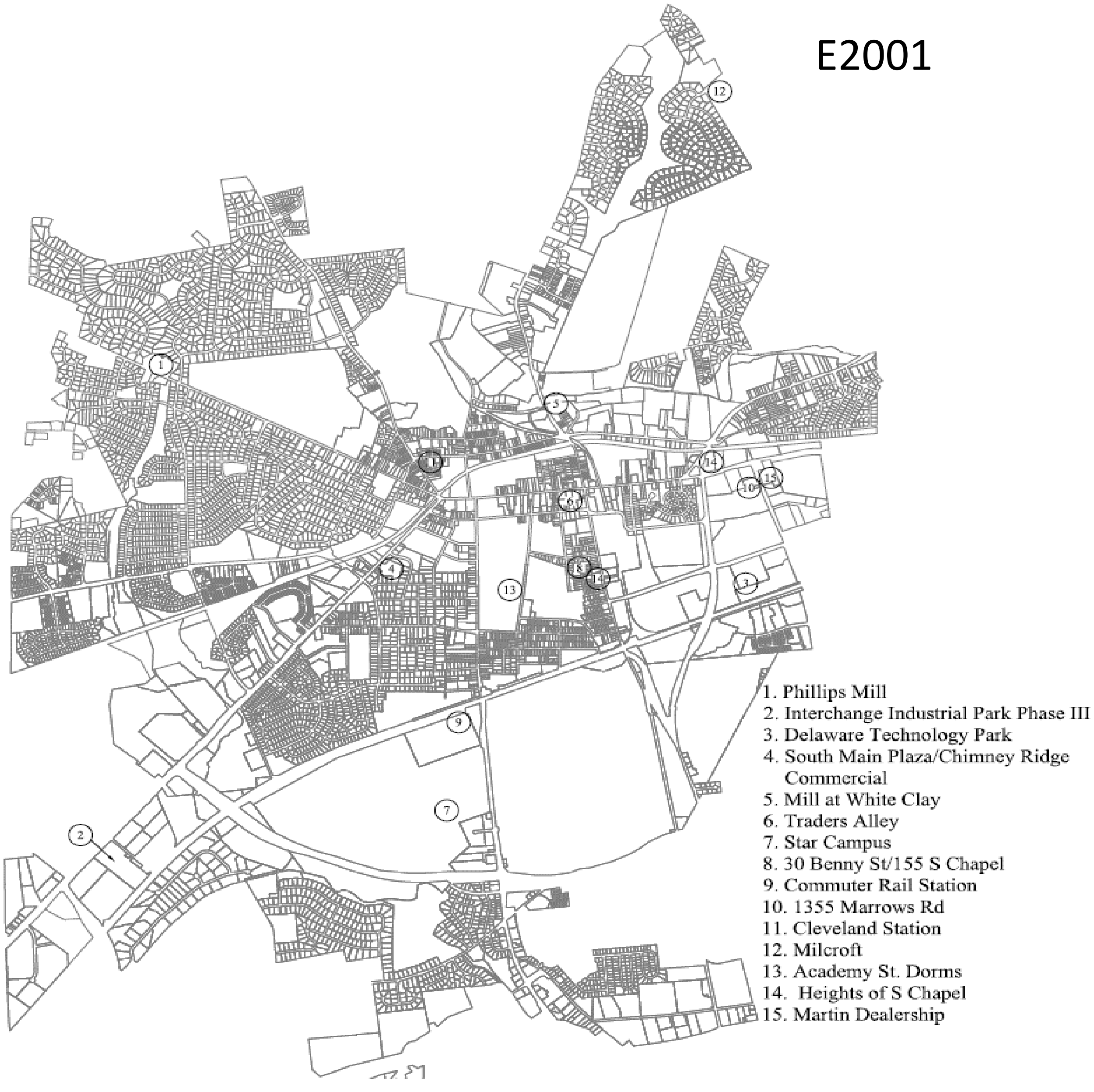
[2] Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

## PROJECT FINANCING BY PLAN YEAR

| § 806.1(3) SOURCE OF FUNDS: | Prior Authorized[2] | Actual Funds Utilized as of 03/31/19 | Estimated Expenditures 04/01/19 - 12/31/19 | Estimated Authorized Balance[2] 12/31/19 | 2020 | 2021 | 2022 | 2023 | 2024 | TOTAL 5 Year CIP |
|---|---|---|---|---|---|---|---|---|---|---|
| CURRENT RESOURCES | 125,000 | - | 125,000 | $ - | 130,000 | 135,000 | 140,000 | 145,000 | 145,000 | $ 695,000 |
| CAPITAL RESERVES | - | - | - | $ - | - | - | - | - | - | $ - |
| EQUIPMENT REPLACEMENT | - | - | - | $ - | - | - | - | - | - | $ - |
| GRANTS (SPECIFY) | - | - | - | $ - | - | - | - | - | - | $ - |
| BOND ISSUES | - | - | - | $ - | - | - | - | - | - | $ - |
| STATE REVOLVING LOAN | - | - | - | $ - | - | - | - | - | - | $ - |
| OTHER (SPECIFY) | - | - | - | $ - | - | - | - | - | - | $ - |
| TOTAL: | $ 125,000 | $ - | $ 125,000 | $ - | $ 130,000 | $ 135,000 | $ 140,000 | $ 145,000 | $ 145,000 | $ 695,000 |

| § 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET | OPERATING IMPACT: | 2020 | 2021 | 2022 | 2023 | 2024 | TOTAL |
|---|---|---|---|---|---|---|---|
| | INCREMENTAL COSTS (NET SAVINGS) | - | - | - | - | - | $ - |

## E2001: New Lines and Services
### Supporting Documentation - Page 1



*Prior Authorized Balance includes 2019 carryover funding only.

**PROJECT NO:** E2002

**PROJECT TITLE:** New Substation

**PROJECT STATUS:** New Project

**FUNDING SUMMARY:**

| | 2020 | 2021 | 2022 | 2023 | 2024 | Total 5 Year |
|---|---|---|---|---|---|---|
| New Funding: | $ 300,000 | $ - | $ - | $ - | $ 15,700,000 | $ 16,000,000 |
| *Prior Authorized Balance: | | $ - | $ - | $ 2,000,000 | $ - | $ 2,000,000 |
| 2020-2024 Funding: | $ 300,000 | $ - | $ - | $ 2,000,000 | $ 15,700,000 | $ 18,000,000 |

| CAPITAL BUDGET - PROJECT DETAIL | |
|---|---|
| DEPARTMENT: | Electric |
| DIVISION: | Electric |
| FUND: | Electric |
| PROJECT LOCATION: | Transfer Station on Old S. Chapel St. |
| PROJECT PRIORITY: | 2 - High Priority Level |
| Critical need to remediate failing service, prevent failure, or generate savings | |
| COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT: | Sustainable Community |

**Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:**

The city needs a new substation to increase system reliability. Our existing Kershaw substation which feeds the entire city is almost 40 years old. Adding another substation as a source improves system reliability as well as the capacity. Our existing infrastructure is not capable of handling the load increase at the STAR campus. This new substation will help with load increase at the STAR campus as well.

| § 806.1(3) SUMMARY OF PROJECT DATA | |
|---|---|
| First Year in Program: | 2019 |
| Est. Completion Date: | 2024 |
| Est. Useful Life (in years): | 50 |
| Est. Total Cost: | $ 18,000,000 |
| Est. Spend @ 12/31/2019 (if underway)[1]: | $ - |
| % Complete (if underway): | 0.0% |
| Balance to be funded[1]: | $ 18,000,000 |

[1] For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

**PROJECT COST BY CATEGORY**

| CLASSIFICATION | ACCOUNT NUMBER | AMOUNT |
|---|---|---|
| Labor: | | |
| Materials: | | |
| Other Contracts: | 5195106.9730 | $ 18,000,000 |
| TOTAL PROJECT COST | | $ 18,000,000 |

[2] Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

**PROJECT FINANCING BY PLAN YEAR**

| § 806.1(3) SOURCE OF FUNDS: | Prior Authorized[2] | Actual Funds Utilized as of 03/31/19 | Estimated Expenditures 04/01/19 - 12/31/19 | Estimated Authorized Balance[2] 12/31/19 | 2020 | 2021 | 2022 | 2023 | 2024 | TOTAL 5 Year CIP |
|---|---|---|---|---|---|---|---|---|---|---|
| CURRENT RESOURCES | - | - | - | $ - | 300,000 | - | - | - | - | $ 300,000 |
| CAPITAL RESERVES | 2,000,000 | - | - | $ 2,000,000 | - | - | - | 2,000,000 | - | $ 2,000,000 |
| EQUIPMENT REPLACEMENT | - | - | - | $ - | - | - | - | - | - | $ - |
| GRANTS (SPECIFY) | - | - | - | $ - | - | - | - | - | - | $ - |
| BOND ISSUES | - | - | - | $ - | - | - | - | - | 15,700,000 | $ 15,700,000 |
| STATE REVOLVING LOAN | - | - | - | $ - | - | - | - | - | - | $ - |
| OTHER Future Capital Projects Reserve | - | - | - | $ - | - | - | - | - | - | $ - |
| TOTAL: | $ 2,000,000 | $ - | $ - | $ 2,000,000 | $ 300,000 | $ - | $ - | $ 2,000,000 | $ 15,700,000 | $ 18,000,000 |

| § 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET | OPERATING IMPACT: | 2020 | 2021 | 2022 | 2023 | 2024 | TOTAL |
|---|---|---|---|---|---|---|---|
| | INCREMENTAL COSTS (NET SAVINGS) | - | - | - | - | - | $ - |

**E2002: New Substation**
**Supporting Documentation - Page 1**

*Prior Authorized Balance includes 2019 carryover funding only.

**PROJECT NO:** E1911

**PROJECT TITLE:** 35kV Line 3402 Capacity Upgrade

**PROJECT STATUS:** New Project

| **FUNDING SUMMARY:** | 2020 | 2021 | 2022 | 2023 | 2024 | Total 5 Year |
|---|---|---|---|---|---|---|
| New Funding: | $ - | $ 250,000 | $ 250,000 | $ - | $ - | $ 500,000 |
| *Prior Authorized Balance: | $ - | $ - | $ - | $ - | $ - | $ - |
| 2020-2024 Funding: | $ - | $ 250,000 | $ 250,000 | $ - | $ - | $ 500,000 |

| CAPITAL BUDGET - PROJECT DETAIL | |
|---|---|
| DEPARTMENT: | Electric |
| DIVISION: | Electric |
| FUND: | Electric |
| PROJECT LOCATION: | Various locations in the City |
| PROJECT PRIORITY: | 4 - Medium |
| This project is a NEED and not a WANT, but no significant risk in the deferral of this item | |
| COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT: | Sustainable Community |

**Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:**

This project will upgrade the aerial and underground cable on 35kV line 3402 to ensure capacity and reliable back-up capacity to the Phillips substation, Chestnut Hill substation, Sandy Brae substation and West Main substation. This upgrade will also allow us to tie this feeder to the new substation in the future if needed.

| § 806.1(3) SUMMARY OF PROJECT DATA | |
|---|---|
| First Year in Program: | 2019 |
| Est. Completion Date: | 2022 |
| Est. Useful Life (in years): | 30 |
| Est. Total Cost: | $ 500,000 |
| Est. Spend @ 12/31/2019 (if underway)[1]: | $ - |
| % Complete (if underway): | 0.0% |
| Balance to be funded[1]: | $ 500,000 |

[1] For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

| PROJECT COST BY CATEGORY | | |
|---|---|---|
| **CLASSIFICATION** | **ACCOUNT NUMBER** | **AMOUNT** |
| Labor: | 5195106.9860 | $ 160,000 |
| Materials: | 5195106.9760 | $ 340,000 |
| Other Contracts: | | $ - |
| TOTAL PROJECT COST | | $ 500,000 |

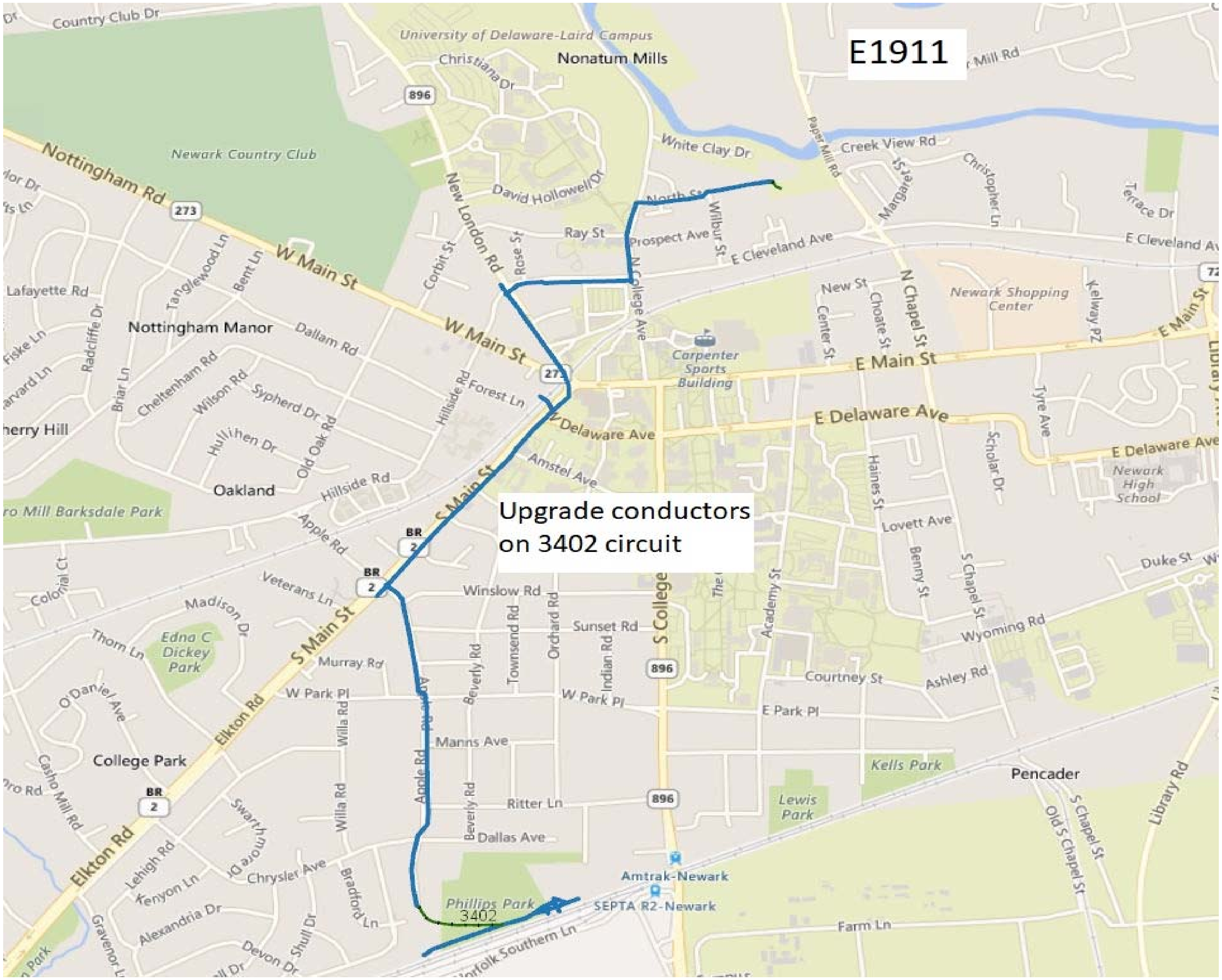
[2] Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

**PROJECT FINANCING BY PLAN YEAR**

| § 806.1(3) **SOURCE OF FUNDS:** | Prior Authorized[2] | Actual Funds Utilized as of 03/31/19 | Estimated Expenditures 04/01/19 - 12/31/19 | Estimated Authorized Balance[2] 12/31/19 | 2020 | 2021 | 2022 | 2023 | 2024 | TOTAL 5 Year CIP |
|---|---|---|---|---|---|---|---|---|---|---|
| CURRENT RESOURCES | - | - | - | $ - | - | 250,000 | 250,000 | - | - | $ 500,000 |
| CAPITAL RESERVES | - | - | - | $ - | - | - | - | - | - | $ - |
| EQUIPMENT REPLACEMENT | - | - | - | $ - | - | - | - | - | - | $ - |
| GRANTS (SPECIFY) | - | - | - | $ - | - | - | - | - | - | $ - |
| BOND ISSUES | - | - | - | $ - | - | - | - | - | - | $ - |
| STATE REVOLVING LOAN | - | - | - | $ - | - | - | - | - | - | $ - |
| OTHER (SPECIFY) | - | - | - | $ - | - | - | - | - | - | $ - |
| **TOTAL:** | $ - | $ - | $ - | $ - | $ - | $ 250,000 | $ 250,000 | $ - | $ - | $ 500,000 |

| § 806.1(4) **ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET** | **OPERATING IMPACT:** | **2020** | **2021** | **2022** | **2023** | **2024** | **TOTAL** |
|---|---|---|---|---|---|---|---|
| | INCREMENTAL COSTS (NET SAVINGS) | - | - | - | - | - | $ - |

**E1911: 35kV Line 3402 Capacity Upgrade**
**Supporting Documentation - Page 1**



*Prior Authorized Balance includes 2019 carryover funding only.

| | | | |
|---|---|---|---|
| **PROJECT NO:** | **E1912** | | |
| **PROJECT TITLE:** | **35kV Disconnect Switches Replacement - Kershaw Substation** | | |
| **PROJECT STATUS:** | **New Project** | | |

| **FUNDING SUMMARY:** | **2020** | **2021** | **2022** | **2023** | **2024** | **Total 5 Year** |
|---|---|---|---|---|---|---|
| New Funding: | $ - | $ 150,000 | $ 150,000 | $ 150,000 | $ - | $ 450,000 |
| *Prior Authorized Balance: | $ - | $ - | $ - | $ - | $ - | $ - |
| 2020-2024 Funding: | $ - | $ 150,000 | $ 150,000 | $ 150,000 | $ - | $ 450,000 |

| **CAPITAL BUDGET - PROJECT DETAIL** | |
|---|---|
| DEPARTMENT: | Electric |
| DIVISION: | Electric |
| FUND: | Electric |
| PROJECT LOCATION: | Kershaw Substation |
| PROJECT PRIORITY: | 3 - Medium-High |
| The City would be taking a calculated risk in the deferral of this item | |
| COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT: | Sustainable Community |

**Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:**

This project will replace 40 year old 35kV disconnect switches at Kershaw Substaion.

| § 806.1(3) **SUMMARY OF PROJECT DATA** | |
|---|---|
| First Year in Program: | 2019 |
| Est. Completion Date: | 2023 |
| Est. Useful Life (in years): | 20 |
| Est. Total Cost: | $ 450,000 |
| Est. Spend @ 12/31/2019 (if underway)[1]: | $ - |
| % Complete (if underway): | 0.0% |
| Balance to be funded[1]: | $ 450,000 |

[1] For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

| **PROJECT COST BY CATEGORY** | | |
|---|---|---|
| **CLASSIFICATION** | **ACCOUNT NUMBER** | **AMOUNT** |
| Labor: | 5195106.9830 | $ 150,000 |
| Materials: | 5195106.9730 | $ 300,000 |
| Other Contracts: | | $ - |
| TOTAL PROJECT COST | | $ 450,000 |

[2] Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

**PROJECT FINANCING BY PLAN YEAR**

| § 806.1(3) **SOURCE OF FUNDS:** | **Prior Authorized[2]** | **Actual Funds Utilized as of 03/31/19** | **Estimated Expenditures 04/01/19 - 12/31/19** | **Estimated Authorized Balance[2] 12/31/19** | **2020** | **2021** | **2022** | **2023** | **2024** | **TOTAL 5 Year CIP** |
|---|---|---|---|---|---|---|---|---|---|---|
| CURRENT RESOURCES | - | - | - | $ - | - | 150,000 | 150,000 | 150,000 | - | $ 450,000 |
| CAPITAL RESERVES | - | - | - | $ - | - | - | - | - | - | $ - |
| EQUIPMENT REPLACEMENT | - | - | - | $ - | - | - | - | - | - | $ - |
| GRANTS (SPECIFY) | - | - | - | $ - | - | - | - | - | - | $ - |
| BOND ISSUES | - | - | - | $ - | - | - | - | - | - | $ - |
| STATE REVOLVING LOAN | - | - | - | $ - | - | - | - | - | - | $ - |
| OTHER (SPECIFY) | - | - | - | $ - | - | - | - | - | - | $ - |
| **TOTAL:** | $ - | $ - | $ - | $ - | $ - | $ 150,000 | $ 150,000 | $ 150,000 | $ - | $ 450,000 |

| § 806.1(4) **ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET** | **OPERATING IMPACT:** | **2020** | **2021** | **2022** | **2023** | **2024** | **TOTAL** |
|---|---|---|---|---|---|---|---|
| | INCREMENTAL COSTS (NET SAVINGS) | - | - | - | - | - | $ - |

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*Prior Authorized Balance includes 2019 carryover funding only.

**PROJECT NO:** E1805

**PROJECT TITLE:** Line Extension - UD Farm

**PROJECT STATUS:** In Progress (with end date)

**FUNDING SUMMARY:**

| | 2020 | 2021 | 2022 | 2023 | 2024 | Total 5 Year |
|---|---|---|---|---|---|---|
| New Funding: | $ 150,000 | $ - | $ - | $ - | $ - | $ 150,000 |
| *Prior Authorized Balance: | $ - | $ - | $ - | $ - | $ - | $ - |
| 2020-2024 Funding: | $ 150,000 | $ - | $ - | $ - | $ - | $ 150,000 |

## CAPITAL BUDGET - PROJECT DETAIL

| | |
|---|---|
| DEPARTMENT: | Electric |
| DIVISION: | Electric |
| FUND: | Electric |
| PROJECT LOCATION: | University of Delaware: Farm |
| PROJECT PRIORITY: | 4 - Medium |

This project is a NEED and not a WANT, but no significant risk in the deferral of this item

COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT: Sustainable Community

## Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:

To ensure capacity and reliable back-up capacity to the Star Campus, the University of Delaware South Campus and City customers on South College Avenue, it is proposed to install a new 12,470 volt circuit from Old South Chapel Street to South College Avenue through the University of Delaware Farm. This project is based on approval from the University of Delaware.

## § 806.1(3) SUMMARY OF PROJECT DATA

| | |
|---|---|
| First Year in Program: | 2018 |
| Est. Completion Date: | 2020 |
| Est. Useful Life (in years): | 30 |
| Est. Total Cost: | $ 320,000 |
| Est. Spend @ 12/31/2019 (if underway)[1]: | $ 170,000 |
| % Complete (if underway): | 53.1% |
| Balance to be funded[1]: | $ 150,000 |

[1] For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

## PROJECT COST BY CATEGORY

| CLASSIFICATION | ACCOUNT NUMBER | AMOUNT |
|---|---|---|
| Labor: | 5195106.9860 | $ - |
| Materials: | 5195106.9760 | $ - |
| Other Contracts: | | $ - |
| TOTAL PROJECT COST | | $ - |

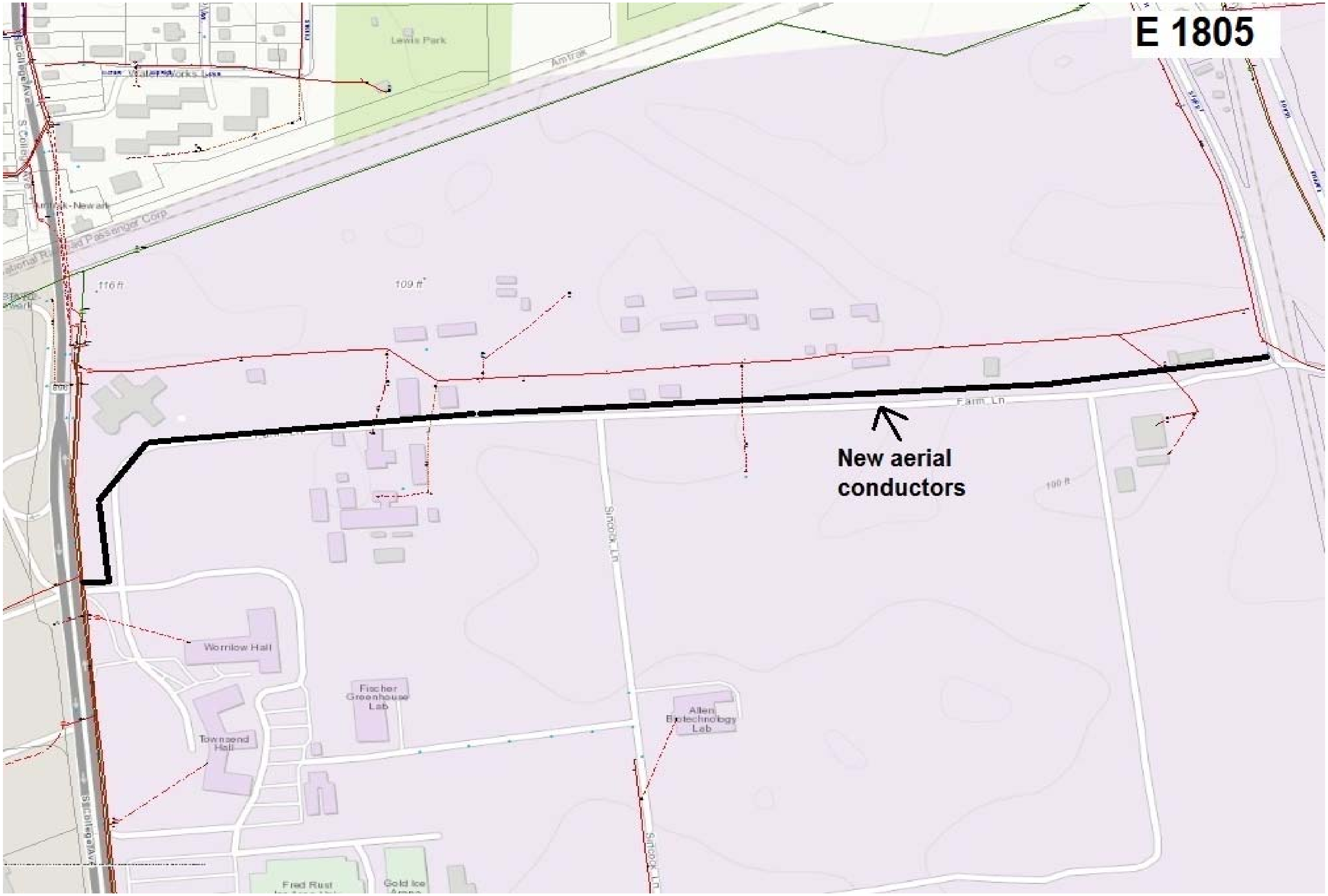
[2] Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

## PROJECT FINANCING BY PLAN YEAR

| § 806.1(3) SOURCE OF FUNDS: | Prior Authorized[2] | Actual Funds Utilized as of 03/31/19 | Estimated Expenditures 04/01/19 - 12/31/19 | Estimated Authorized Balance[2] 12/31/19 | 2020 | 2021 | 2022 | 2023 | 2024 | TOTAL 5 Year CIP |
|---|---|---|---|---|---|---|---|---|---|---|
| CURRENT RESOURCES | 170,000 | - | 170,000 | $ - | 150,000 | - | - | - | - | $ 150,000 |
| CAPITAL RESERVES | - | - | - | $ - | - | - | - | - | - | $ - |
| EQUIPMENT REPLACEMENT | - | - | - | $ - | - | - | - | - | - | $ - |
| GRANTS (SPECIFY) | - | - | - | $ - | - | - | - | - | - | $ - |
| BOND ISSUES | - | - | - | $ - | - | - | - | - | - | $ - |
| STATE REVOLVING LOAN | - | - | - | $ - | - | - | - | - | - | $ - |
| OTHER (SPECIFY) | - | - | - | $ - | - | - | - | - | - | $ - |
| TOTAL: | $ 170,000 | $ - | $ 170,000 | $ - | $ 150,000 | $ - | $ - | $ - | $ - | $ 150,000 |

| § 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET | OPERATING IMPACT: | 2020 | 2021 | 2022 | 2023 | 2024 | TOTAL |
|---|---|---|---|---|---|---|---|
| | INCREMENTAL COSTS (NET SAVINGS) | - | - | - | - | - | $ - |

**E1805: Line Extension - UD Farm**
**Supporting Documentation - Page 1**



*Prior Authorized Balance includes 2019 carryover funding only.

**PROJECT NO:** E1806

**PROJECT TITLE:** Christianstead Underground Primary Cable Addition

**PROJECT STATUS:** In Progress (with end date)

| FUNDING SUMMARY: | 2020 | 2021 | 2022 | 2023 | 2024 | Total 5 Year |
|---|---|---|---|---|---|---|
| New Funding: | $ - | $ 50,000 | $ - | $ - | $ - | $ 50,000 |
| *Prior Authorized Balance: | $ - | $ - | $ - | $ - | $ - | $ - |
| 2020-2024 Funding: | $ - | $ 50,000 | $ - | $ - | $ - | $ 50,000 |

## CAPITAL BUDGET - PROJECT DETAIL

| | |
|---|---|
| DEPARTMENT: | Electric |
| DIVISION: | Electric |
| FUND: | Electric |
| PROJECT LOCATION: | Christianstead |
| PROJECT PRIORITY: | 4 - Medium |

This project is a NEED and not a WANT, but no significant risk in the deferral of this item

COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT: Sustainable Community

## Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:

An additional underground high voltage cable is needed in Christianstead to balance load during emergency conditions when an existing high voltage cable fails. When we experience a cable failure, the remaining cable can not be fused properly to coordinate with upstream fuses.

## § 806.1(3) SUMMARY OF PROJECT DATA

| | |
|---|---|
| First Year in Program: | 2018 |
| Est. Completion Date: | 2020 |
| Est. Useful Life (in years): | 30 |
| Est. Total Cost: | $ 50,000 |
| Est. Spend @ 12/31/2019 (if underway)[1]: | $ - |
| % Complete (if underway): | 0.0% |
| Balance to be funded[1]: | $ 50,000 |

[1] For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

## PROJECT COST BY CATEGORY

| CLASSIFICATION | ACCOUNT NUMBER | AMOUNT |
|---|---|---|
| Labor: | 5195106.9860 | $ 8,000 |
| Materials: | 5195106.9760 | $ 42,000 |
| Other Contracts: | | $ - |
| TOTAL PROJECT COST | | $ 50,000 |

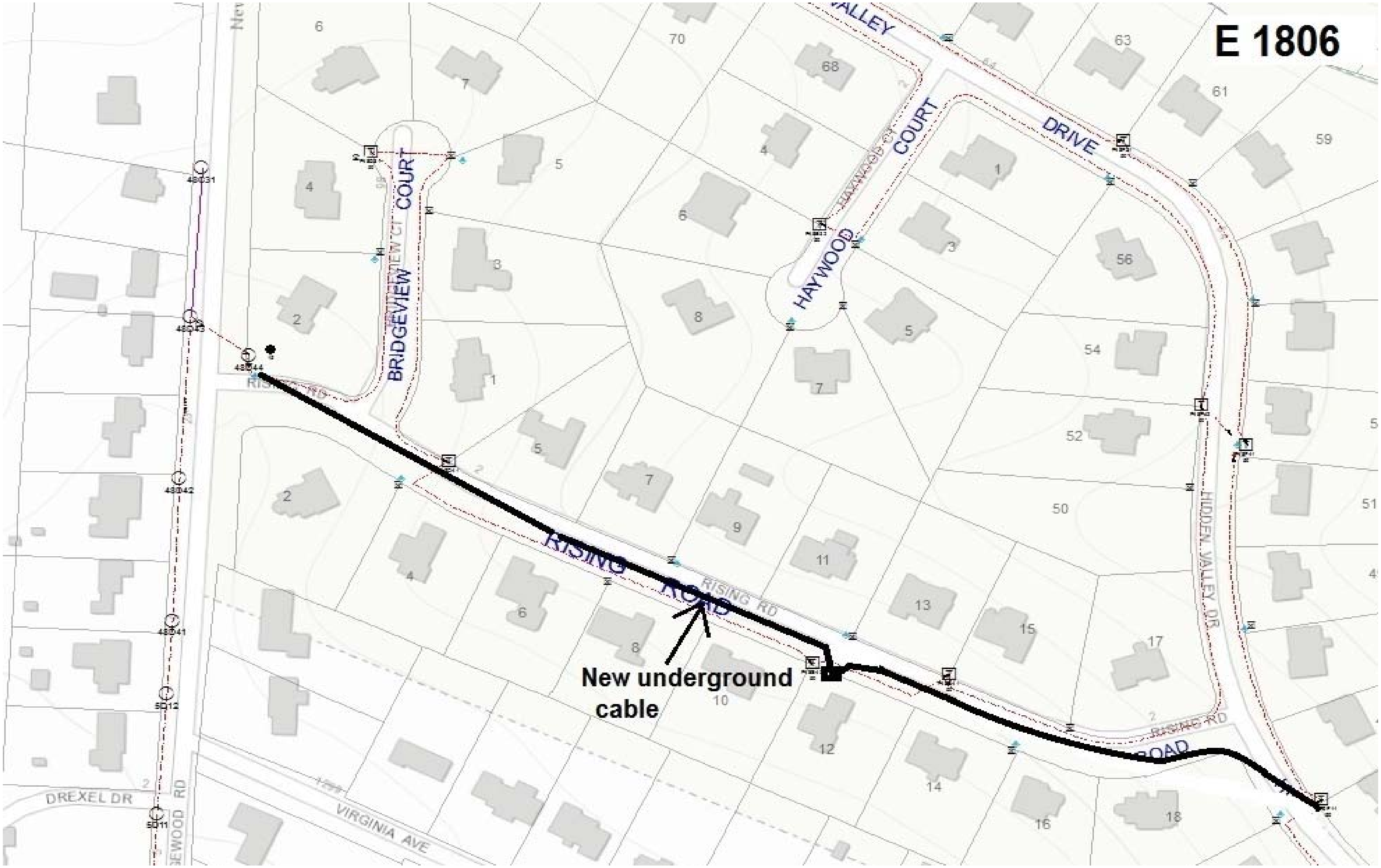
[2] Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

## PROJECT FINANCING BY PLAN YEAR

| § 806.1(3) SOURCE OF FUNDS: | Prior Authorized[2] | Actual Funds Utilized as of 03/31/19 | Estimated Expenditures 04/01/19 - 12/31/19 | Estimated Authorized Balance[2] 12/31/19 | 2020 | 2021 | 2022 | 2023 | 2024 | TOTAL 5 Year CIP |
|---|---|---|---|---|---|---|---|---|---|---|
| CURRENT RESOURCES | - | - | - | $ - | - | 50,000 | - | - | - | $ 50,000 |
| CAPITAL RESERVES | - | - | - | $ - | - | - | - | - | - | $ - |
| EQUIPMENT REPLACEMENT | - | - | - | $ - | - | - | - | - | - | $ - |
| GRANTS (SPECIFY) | - | - | - | $ - | - | - | - | - | - | $ - |
| BOND ISSUES | - | - | - | $ - | - | - | - | - | - | $ - |
| STATE REVOLVING LOAN | - | - | - | $ - | - | - | - | - | - | $ - |
| OTHER (SPECIFY) | - | - | - | $ - | - | - | - | - | - | $ - |
| TOTAL: | $ - | $ - | $ - | $ - | $ - | $ 50,000 | $ - | $ - | $ - | $ 50,000 |

| § 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET | OPERATING IMPACT: | 2020 | 2021 | 2022 | 2023 | 2024 | TOTAL |
|---|---|---|---|---|---|---|---|
| | INCREMENTAL COSTS (NET SAVINGS) | - | - | - | - | - | $ - |

## E1806: Christianstead Underground Primary Cable Addition
**Supporting Documentation - Page 1**



*Prior Authorized Balance includes 2019 carryover funding only.

**PROJECT NO:** E1807

**PROJECT TITLE:** Relay Replacements - Kershaw Substation

**PROJECT STATUS:** In Progress (with end date)

| FUNDING SUMMARY: | 2020 | 2021 | 2022 | 2023 | 2024 | Total 5 Year |
|---|---|---|---|---|---|---|
| New Funding: | $ 50,000 | $ 50,000 | $ 50,000 | $ 50,000 | $ - | $ 200,000 |
| *Prior Authorized Balance: | $ - | $ - | $ - | $ - | $ - | $ - |
| 2020-2024 Funding: | $ 50,000 | $ 50,000 | $ 50,000 | $ 50,000 | $ - | $ 200,000 |

## CAPITAL BUDGET - PROJECT DETAIL

| | |
|---|---|
| DEPARTMENT: | Electric |
| DIVISION: | Electric |
| FUND: | Electric |
| PROJECT LOCATION: | Kershaw Substation |
| PROJECT PRIORITY: | 5 - Low |

This project is a NEED and not a WANT, but it can start in year two of this CIP or later

COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT: Sustainable Community

## Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:

This project will replace electro mechanical relays on circuit breakers 7, 8 and 9 at Kershaw Substation and connect them to the SCADA system. This will allow us to see breaker status and also have remote control.

## § 806.1(3) SUMMARY OF PROJECT DATA

| | |
|---|---|
| First Year in Program: | 2018 |
| Est. Completion Date: | 2023 |
| Est. Useful Life (in years): | 20 |
| Est. Total Cost: | $ 200,000 |
| Est. Spend @ 12/31/2019 (if underway)[1]: | $ - |
| % Complete (if underway): | 0.0% |
| Balance to be funded[1]: | $ 200,000 |

[1] For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

## PROJECT COST BY CATEGORY

| CLASSIFICATION | ACCOUNT NUMBER | AMOUNT |
|---|---|---|
| Labor: | 5195106.9830 | $ 70,000 |
| Materials: | 5195106.9730 | $ 130,000 |
| Other Contracts: | | $ - |
| TOTAL PROJECT COST | | $ 200,000 |

[2] Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

## PROJECT FINANCING BY PLAN YEAR

| § 806.1(3) SOURCE OF FUNDS: | Prior Authorized[2] | Actual Funds Utilized as of 03/31/19 | Estimated Expenditures 04/01/19 - 12/31/19 | Estimated Authorized Balance[2] 12/31/19 | 2020 | 2021 | 2022 | 2023 | 2024 | TOTAL 5 Year CIP |
|---|---|---|---|---|---|---|---|---|---|---|
| CURRENT RESOURCES | - | - | - | $ - | 50,000 | 50,000 | 50,000 | 50,000 | - | $ 200,000 |
| CAPITAL RESERVES | - | - | - | $ - | - | - | - | - | - | $ - |
| EQUIPMENT REPLACEMENT | - | - | - | $ - | - | - | - | - | - | $ - |
| GRANTS (SPECIFY) | - | - | - | $ - | - | - | - | - | - | $ - |
| BOND ISSUES | - | - | - | $ - | - | - | - | - | - | $ - |
| STATE REVOLVING LOAN | - | - | - | $ - | - | - | - | - | - | $ - |
| OTHER (SPECIFY) | - | - | - | $ - | - | - | - | - | - | $ - |
| TOTAL: | $ - | $ - | $ - | $ - | $ 50,000 | $ 50,000 | $ 50,000 | $ 50,000 | $ - | $ 200,000 |

| § 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET | OPERATING IMPACT: | 2020 | 2021 | 2022 | 2023 | 2024 | TOTAL |
|---|---|---|---|---|---|---|---|
| | INCREMENTAL COSTS (NET SAVINGS) | - | - | - | - | - | $ - |

*Prior Authorized Balance includes 2019 carryover funding only.

**PROJECT NO:** E1808

**PROJECT TITLE:** Voltage Upgrade - North College Avenue

**PROJECT STATUS:** In Progress (with end date)

**FUNDING SUMMARY:**

| | 2020 | 2021 | 2022 | 2023 | 2024 | Total 5 Year |
|---|---|---|---|---|---|---|
| New Funding: | $ 50,000 | $ - | $ - | $ - | $ - | $ 50,000 |
| *Prior Authorized Balance: | $ - | $ - | $ - | $ - | $ - | $ - |
| 2020-2024 Funding: | **$ 50,000** | **$ -** | **$ -** | **$ -** | **$ -** | **$ 50,000** |

**CAPITAL BUDGET - PROJECT DETAIL**

| | |
|---|---|
| DEPARTMENT: | Electric |
| DIVISION: | Electric |
| FUND: | Electric |
| PROJECT LOCATION: | North College Avenue |
| PROJECT PRIORITY: | 5 - Low |
| This project is a NEED and not a WANT, but it can start in year two of this CIP or later | |
| COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT: | Sustainable Community |

**§ 806.1(3) SUMMARY OF PROJECT DATA**

| | |
|---|---|
| First Year in Program: | 2018 |
| Est. Completion Date: | 2020 |
| Est. Useful Life (in years): | 30 |
| Est. Total Cost: | $ 50,000 |
| Est. Spend @ 12/31/2019 (if underway)[1]: | $ - |
| % Complete (if underway): | 0.0% |
| Balance to be funded[1]: | $ 50,000 |

[1] For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

**PROJECT COST BY CATEGORY**

| CLASSIFICATION | ACCOUNT NUMBER | AMOUNT |
|---|---|---|
| Labor: | 5195106.9860 | $ 23,800 |
| Materials: | 5195106.9760 | $ 26,200 |
| Other Contracts: | | $ - |
| TOTAL PROJECT COST | | $ 50,000 |

[2] Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

**Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:**

Replace poles on North College Avenue and install a primary metering pole in preparation for a 4160 volt to 12470 volt upgrade of University buildings on North College Avenue.

**PROJECT FINANCING BY PLAN YEAR**

| § 806.1(3) **SOURCE OF FUNDS:** | Prior Authorized[2] | Actual Funds Utilized as of 03/31/19 | Estimated Expenditures 04/01/19 - 12/31/19 | Estimated Authorized Balance[2] 12/31/19 | 2020 | 2021 | 2022 | 2023 | 2024 | TOTAL 5 Year CIP |
|---|---|---|---|---|---|---|---|---|---|---|
| CURRENT RESOURCES | - | - | - | $ - | 50,000 | - | - | - | - | $ 50,000 |
| CAPITAL RESERVES | - | - | - | $ - | - | - | - | - | - | $ - |
| EQUIPMENT REPLACEMENT | - | - | - | $ - | - | - | - | - | - | $ - |
| GRANTS (SPECIFY) | - | - | - | $ - | - | - | - | - | - | $ - |
| BOND ISSUES | - | - | - | $ - | - | - | - | - | - | $ - |
| STATE REVOLVING LOAN | - | - | - | $ - | - | - | - | - | - | $ - |
| OTHER (SPECIFY) | - | - | - | $ - | - | - | - | - | - | $ - |
| **TOTAL:** | $ - | $ - | $ - | $ - | $ 50,000 | $ - | $ - | $ - | $ - | $ 50,000 |

| § 806.1(4) **ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET** | **OPERATING IMPACT:** | **2020** | **2021** | **2022** | **2023** | **2024** | **TOTAL** |
|---|---|---|---|---|---|---|---|
| | INCREMENTAL COSTS (NET SAVINGS) | - | - | - | - | - | $ - |

*Prior Authorized Balance includes 2019 carryover funding only.

**PROJECT NO:** E1810

**PROJECT TITLE:** Lightning Arrestor Replacement

**PROJECT STATUS:** In Progress (with end date)

| FUNDING SUMMARY: | 2020 | 2021 | 2022 | 2023 | 2024 | Total 5 Year |
|---|---|---|---|---|---|---|
| New Funding: | $ - | $ - | $ - | $ 235,000 | $ - | $ 235,000 |
| *Prior Authorized Balance: | $ - | $ - | $ - | $ - | $ - | $ - |
| 2020-2024 Funding: | $ - | $ - | $ - | $ 235,000 | $ - | $ 235,000 |

## CAPITAL BUDGET - PROJECT DETAIL

| | |
|---|---|
| DEPARTMENT: | Electric |
| DIVISION: | Electric |
| FUND: | Electric |
| PROJECT LOCATION: | Various locations in the City |
| PROJECT PRIORITY: | 5 - Low |

This project is a NEED and not a WANT, but it can start in year two of this CIP or later

COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT: Sustainable Community

## Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:

Replace older lightning arrestors on the 12.47kV system. This will prevent power outages and improve lightning protection on the distribution system.

## § 806.1(3) SUMMARY OF PROJECT DATA

| | |
|---|---|
| First Year in Program: | 2018 |
| Est. Completion Date: | 2023 |
| Est. Useful Life (in years): | 30 |
| Est. Total Cost: | $ 235,000 |
| Est. Spend @ 12/31/2019 (if underway)[1]: | $ - |
| % Complete (if underway): | 0.0% |
| Balance to be funded[1]: | $ 235,000 |

[1] For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

## PROJECT COST BY CATEGORY

| CLASSIFICATION | ACCOUNT NUMBER | AMOUNT |
|---|---|---|
| Labor: | 5195106.9860 | $ 180,000 |
| Materials: | 5195106.9760 | $ 55,000 |
| Other Contracts: | | $ - |
| TOTAL PROJECT COST | | $ 235,000 |

[2] Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

## PROJECT FINANCING BY PLAN YEAR

| § 806.1(3) SOURCE OF FUNDS: | Prior Authorized[2] | Actual Funds Utilized as of 03/31/19 | Estimated Expenditures 04/01/19 - 12/31/19 | Estimated Authorized Balance[2] 12/31/19 | 2020 | 2021 | 2022 | 2023 | 2024 | TOTAL 5 Year CIP |
|---|---|---|---|---|---|---|---|---|---|---|
| CURRENT RESOURCES | - | - | - | $ - | - | - | - | 235,000 | - | $ 235,000 |
| CAPITAL RESERVES | - | - | - | $ - | - | - | - | - | - | $ - |
| EQUIPMENT REPLACEMENT | - | - | - | $ - | - | - | - | - | - | $ - |
| GRANTS (SPECIFY) | - | - | - | $ - | - | - | - | - | - | $ - |
| BOND ISSUES | - | - | - | $ - | - | - | - | - | - | $ - |
| STATE REVOLVING LOAN | - | - | - | $ - | - | - | - | - | - | $ - |
| OTHER (SPECIFY) | - | - | - | $ - | - | - | - | - | - | $ - |
| TOTAL: | $ - | $ - | $ - | $ - | $ - | $ - | $ - | $ 235,000 | $ - | $ 235,000 |

| § 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET | OPERATING IMPACT: | 2020 | 2021 | 2022 | 2023 | 2024 | TOTAL |
|---|---|---|---|---|---|---|---|
| | INCREMENTAL COSTS (NET SAVINGS) | - | - | - | - | - | $ - |

*Prior Authorized Balance includes 2019 carryover funding only.

**PROJECT NO:** E1602

**PROJECT TITLE:** Circuit Breaker Replacement

**PROJECT STATUS:** In Progress (with end date)

| FUNDING SUMMARY: | 2020 | 2021 | 2022 | 2023 | 2024 | Total 5 Year |
|---|---|---|---|---|---|---|
| New Funding: | $ 70,000 | $ - | $ - | $ - | $ - | $ 70,000 |
| *Prior Authorized Balance: | $ - | $ - | $ - | $ - | $ - | $ - |
| 2020-2024 Funding: | $ 70,000 | $ - | $ - | $ - | $ - | $ 70,000 |

## CAPITAL BUDGET - PROJECT DETAIL

| | |
|---|---|
| DEPARTMENT: | Electric |
| DIVISION: | Electric |
| FUND: | Electric |
| PROJECT LOCATION: | Fremont Road Substation |
| PROJECT PRIORITY: | 3 - Medium-High |
| The City would be taking a calculated risk in the deferral of this item | |
| COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT: | Sustainable Community |

## Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:

The 35kV oil circuit breaker installed in 1975 feeding transformer 47 at the Fremont Road Substation does not always open and close properly. Due to this problem and its age, it is recommended it be replaced with a vacuum type breaker.

## § 806.1(3) SUMMARY OF PROJECT DATA

| | |
|---|---|
| First Year in Program: | 2016 |
| Est. Completion Date: | 2020 |
| Est. Useful Life (in years): | 30 |
| Est. Total Cost: | $ 70,000 |
| Est. Spend @ 12/31/2019 (if underway)[1]: | $ - |
| % Complete (if underway): | 0.0% |
| Balance to be funded[1]: | $ 70,000 |

[1] For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

## PROJECT COST BY CATEGORY

| CLASSIFICATION | ACCOUNT NUMBER | AMOUNT |
|---|---|---|
| Labor: | 5195106.9830 | $ 10,000 |
| Materials: | 5195106.9730 | $ 45,000 |
| Other Contracts: | 5195106.9730 | $ 15,000 |
| TOTAL PROJECT COST | | $ 70,000 |

[2] Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

## PROJECT FINANCING BY PLAN YEAR

| § 806.1(3) SOURCE OF FUNDS: | Prior Authorized[2] | Actual Funds Utilized as of 03/31/19 | Estimated Expenditures 04/01/19 - 12/31/19 | Estimated Authorized Balance[2] 12/31/19 | 2020 | 2021 | 2022 | 2023 | 2024 | TOTAL 5 Year CIP |
|---|---|---|---|---|---|---|---|---|---|---|
| CURRENT RESOURCES | - | - | - | $ - | 70,000 | - | - | - | - | $ 70,000 |
| CAPITAL RESERVES | - | - | - | $ - | - | - | - | - | - | $ - |
| EQUIPMENT REPLACEMENT | - | - | - | $ - | - | - | - | - | - | $ - |
| GRANTS (SPECIFY) | - | - | - | $ - | - | - | - | - | - | $ - |
| BOND ISSUES | - | - | - | $ - | - | - | - | - | - | $ - |
| STATE REVOLVING LOAN | - | - | - | $ - | - | - | - | - | - | $ - |
| OTHER (SPECIFY) | - | - | - | $ - | - | - | - | - | - | $ - |
| TOTAL: | $ - | $ - | $ - | $ - | $ 70,000 | $ - | $ - | $ - | $ - | $ 70,000 |

| § 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET | OPERATING IMPACT: | 2020 | 2021 | 2022 | 2023 | 2024 | TOTAL |
|---|---|---|---|---|---|---|---|
| | INCREMENTAL COSTS (NET SAVINGS) | - | - | - | - | - | $ - |

*Prior Authorized Balance includes 2019 carryover funding only.

| | | FUNDING SUMMARY: | 2020 | 2021 | 2022 | 2023 | 2024 | Total 5 Year |
|---|---|---|---|---|---|---|---|---|
| PROJECT NO: | E1502 | New Funding: | $ 120,000 | $ 120,000 | $ 120,000 | $ 120,000 | $ - | $ 480,000 |
| PROJECT TITLE: | Underground Distribution - UD Star Campus | *Prior Authorized Balance: | $ - | $ - | $ - | $ - | $ - | $ - |
| PROJECT STATUS: | In Progress (with end date) | 2020-2024 Funding: | $ 120,000 | $ 120,000 | $ 120,000 | $ 120,000 | $ - | $ 480,000 |

| CAPITAL BUDGET - PROJECT DETAIL | |
|---|---|
| DEPARTMENT: | Electric |
| DIVISION: | Electric |
| FUND: | Electric |
| PROJECT LOCATION: | University of Delaware: Star Campus |
| PROJECT PRIORITY: | 1 - Highest Priority Level<br>Project underway and must be completed |
| COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT: | Sustainable Community |

**Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:**

Underground electrical distribution equipment needed for the Star Campus. Expenditures to be reimbursed by the Developer or Customer.

| § 806.1(3) SUMMARY OF PROJECT DATA | |
|---|---|
| First Year in Program: | 2015 |
| Est. Completion Date: | 2023 |
| Est. Useful Life (in years): | 30 |
| Est. Total Cost: | $ 600,000 |
| Est. Spend @ 12/31/2019 (if underway)[1]: | $ 120,000 |
| % Complete (if underway): | 20.0% |
| Balance to be funded[1]: | $ 480,000 |

[1] For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

| PROJECT COST BY CATEGORY | | |
|---|---|---|
| CLASSIFICATION | ACCOUNT NUMBER | AMOUNT |
| Labor: | | $ - |
| Materials: | | $ - |
| Other Contracts: | 5195106.9760 | $ 480,000 |
| TOTAL PROJECT COST | | $ 480,000 |

[2] Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

**PROJECT FINANCING BY PLAN YEAR**

| § 806.1(3) SOURCE OF FUNDS: | Prior Authorized[2] | Actual Funds Utilized as of 03/31/19 | Estimated Expenditures 04/01/19 - 12/31/19 | Estimated Authorized Balance[2] 12/31/19 | 2020 | 2021 | 2022 | 2023 | 2024 | TOTAL 5 Year CIP |
|---|---|---|---|---|---|---|---|---|---|---|
| CURRENT RESOURCES | - | - | - | $ - | - | - | - | - | - | $ - |
| CAPITAL RESERVES | - | - | - | $ - | - | - | - | - | - | $ - |
| EQUIPMENT REPLACEMENT | - | - | - | $ - | - | - | - | - | - | $ - |
| GRANTS (SPECIFY) | - | - | - | $ - | - | - | - | - | - | $ - |
| BOND ISSUES | - | - | - | $ - | - | - | - | - | - | $ - |
| STATE REVOLVING LOAN | - | - | - | $ - | - | - | - | - | - | $ - |
| OTHER Developer or Customer | 120,000 | - | 120,000 | $ - | 120,000 | 120,000 | 120,000 | 120,000 | - | $ 480,000 |
| TOTAL: | $ 120,000 | $ - | $ 120,000 | $ - | $ 120,000 | $ 120,000 | $ 120,000 | $ 120,000 | $ - | $ 480,000 |

| § 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET | OPERATING IMPACT: | 2020 | 2021 | 2022 | 2023 | 2024 | TOTAL |
|---|---|---|---|---|---|---|---|
| | INCREMENTAL COSTS (NET SAVINGS) | - | - | - | - | - | $ - |

*Prior Authorized Balance includes 2019 carryover funding only.

**PROJECT NO:** E1203

**PROJECT TITLE:** CAD Software

**PROJECT STATUS:** In Progress (with end date)

| **FUNDING SUMMARY:** | 2020 | 2021 | 2022 | 2023 | 2024 | Total 5 Year |
|---|---|---|---|---|---|---|
| New Funding: | $ - | $ - | $ - | $ - | $ - | $ - |
| *Prior Authorized Balance: | $ 40,444 | $ - | $ - | $ - | $ - | $ 40,444 |
| 2020-2024 Funding: | $ 40,444 | $ - | $ - | $ - | $ - | $ 40,444 |

| CAPITAL BUDGET - PROJECT DETAIL | |
|---|---|
| DEPARTMENT: | Electric |
| DIVISION: | Electric |
| FUND: | Electric |
| PROJECT LOCATION: | Municipal Building |
| PROJECT PRIORITY: | 1 - Highest Priority Level<br>Project underway and must be completed |
| COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT: | Sustainable Community |

**Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:**

This software is needed to model the city's electric distribution system. This software has engineering modules to assist in fault calculations, voltage drop calculations, coordination studies and feeder optimization.

| § 806.1(3) SUMMARY OF PROJECT DATA | |
|---|---|
| First Year in Program: | 2012 |
| Est. Completion Date: | 2019 |
| Est. Useful Life (in years): | 15 |
| Est. Total Cost: | $ 40,444 |
| Est. Spend @ 12/31/2019 (if underway)[1]: | $ - |
| % Complete (if underway): | 0.0% |
| Balance to be funded[1]: | $ 40,444 |

[1] For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

| PROJECT COST BY CATEGORY | | |
|---|---|---|
| **CLASSIFICATION** | **ACCOUNT NUMBER** | **AMOUNT** |
| Labor: | | $ - |
| Materials: | 5195106.9622 | $ - |
| Other Contracts: | | $ - |
| TOTAL PROJECT COST | | $ - |

[2] Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

**PROJECT FINANCING BY PLAN YEAR**

| § 806.1(3) **SOURCE OF FUNDS:** | Prior Authorized[2] | Actual Funds Utilized as of 03/31/19 | Estimated Expenditures 04/01/19 - 12/31/19 | Estimated Authorized Balance[2] 12/31/19 | 2020 | 2021 | 2022 | 2023 | 2024 | TOTAL 5 Year CIP |
|---|---|---|---|---|---|---|---|---|---|---|
| CURRENT RESOURCES | - | - | - | $ - | - | - | - | - | - | $ - |
| CAPITAL RESERVES | 40,444 | - | - | $ 40,444 | 40,444 | - | - | - | - | $ 40,444 |
| EQUIPMENT REPLACEMENT | - | - | - | $ - | - | - | - | - | - | $ - |
| GRANTS (SPECIFY) | - | - | - | $ - | - | - | - | - | - | $ - |
| BOND ISSUES | - | - | - | $ - | - | - | - | - | - | $ - |
| STATE REVOLVING LOAN | - | - | - | $ - | - | - | - | - | - | $ - |
| OTHER (SPECIFY) | - | - | - | $ - | - | - | - | - | - | $ - |
| **TOTAL:** | $ 40,444 | $ - | $ - | $ 40,444 | $ 40,444 | $ - | $ - | $ - | $ - | $ 40,444 |

| § 806.1(4) **ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET** | **OPERATING IMPACT:** | 2020 | 2021 | 2022 | 2023 | 2024 | TOTAL |
|---|---|---|---|---|---|---|---|
| | INCREMENTAL COSTS (NET SAVINGS) | - | - | - | - | - | $ - |

*Prior Authorized Balance includes 2019 carryover funding only.

**PROJECT NO:** E0503

**PROJECT TITLE:** SCADA and Automatic Switching

**PROJECT STATUS:** In Progress (with end date)

**FUNDING SUMMARY:**

| | 2020 | 2021 | 2022 | 2023 | 2024 | Total 5 Year |
|---|---|---|---|---|---|---|
| New Funding: | $ 250,000 | $ - | $ 450,000 | $ - | $ - | $ 700,000 |
| *Prior Authorized Balance: | $ - | $ - | $ - | $ - | $ - | $ - |
| 2020-2024 Funding: | $ 250,000 | $ - | $ 450,000 | $ - | $ - | $ 700,000 |

| CAPITAL BUDGET - PROJECT DETAIL | |
|---|---|
| DEPARTMENT: | Electric |
| DIVISION: | Electric |
| FUND: | Electric |
| PROJECT LOCATION: | Various locations in the City |
| PROJECT PRIORITY: | 1 - Highest Priority Level<br>Project underway and must be completed |
| COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT: | Sustainable Community |

| § 806.1(3) SUMMARY OF PROJECT DATA | |
|---|---|
| First Year in Program: | 2005 |
| Est. Completion Date: | 2022 |
| Est. Useful Life (in years): | 20 |
| Est. Total Cost: | $ 1,924,191 |
| Est. Spend @ 12/31/2019 (if underway)[1]: | $ 1,224,191 |
| % Complete (if underway): | 63.6% |
| Balance to be funded[1]: | $ 700,000 |

[1] For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

| PROJECT COST BY CATEGORY | | |
|---|---|---|
| **CLASSIFICATION** | **ACCOUNT NUMBER** | **AMOUNT** |
| Labor: | 5195106.9860 | $ 140,000 |
| Materials: | 5195106.9760 | $ 483,000 |
| Other Contracts: | 5195106.9960 | $ 77,000 |
| TOTAL PROJECT COST | | $ 700,000 |

[2] Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

## Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:

The auto transfer system will allow intelligent transfer of substations on the 34.5kV subtransmission system using reclosers to isolate a faulted circuit and switch a substation to a different circuit if all logic conditions are met. Large outages will be reduced to about a minute and a notification of a transfer will be sent to on call personnel to investigate.

Also includes (previous CIP E1802) - 15kV Automatic Switching:

This project will add 8 - 15kV reclosers to the existing automation software in 2018 to improve reliability to customers at the Delaware Technology Park and customers on Bellevue Road. The reclosers will automatically isolate a faulted circuit and switch the customers to a different circuit if the alternate circuit is available. In 2019, 11 reclosers (roughly $22,700 each) will be installed to improve reliability to the UD Center Campus and North Campus. In 2022, 10 reclosers (roughly $45,000 each) will be installed on South College and the Christina Parkway to improve reliability to the UD South Campus and the Star Campus.

Our existing SCADA system has become a legacy system so our SCADA provider has proposed to the City to upgrade our existing SCADA system to a newer platform in order to keep up with the industrial standards.

## PROJECT FINANCING BY PLAN YEAR

| § 806.1(3) SOURCE OF FUNDS: | Prior Authorized[2] | Actual Funds Utilized as of 03/31/19 | Estimated Expenditures 04/01/19 - 12/31/19 | Estimated Authorized Balance[2] 12/31/19 | 2020 | 2021 | 2022 | 2023 | 2024 | TOTAL 5 Year CIP |
|---|---|---|---|---|---|---|---|---|---|---|
| CURRENT RESOURCES | 655,000 | 567,867 | 87,133 | $ - | 250,000 | - | 450,000 | - | - | $ 700,000 |
| CAPITAL RESERVES | 569,191 | - | 569,191 | $ - | - | - | - | - | - | $ - |
| EQUIPMENT REPLACEMENT | | - | - | $ - | - | - | - | - | - | $ - |
| GRANTS (SPECIFY) | - | - | - | $ - | - | - | - | - | - | $ - |
| BOND ISSUES | - | - | - | $ - | - | - | - | - | - | $ - |
| STATE REVOLVING LOAN | - | - | - | $ - | - | - | - | - | - | $ - |
| OTHER (SPECIFY) | - | - | - | $ - | - | - | - | - | - | $ - |
| **TOTAL:** | $ 1,224,191 | $ 567,867 | $ 656,324 | $ - | $ 250,000 | $ - | $ 450,000 | $ - | $ - | $ 700,000 |

| § 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET | OPERATING IMPACT: | 2020 | 2021 | 2022 | 2023 | 2024 | TOTAL |
|---|---|---|---|---|---|---|---|
| | INCREMENTAL COSTS (NET SAVINGS) | - | - | - | - | - | $ - |

*Prior Authorized Balance includes 2019 carryover funding only.

**PROJECT NO:** E8510

**PROJECT TITLE:** Transformer Maintenance

**PROJECT STATUS:** In Progress (with end date)

**FUNDING SUMMARY:**

| | 2020 | 2021 | 2022 | 2023 | 2024 | Total 5 Year |
|---|---|---|---|---|---|---|
| New Funding: | $ - | $ - | $ - | $ - | $ - | $ - |
| *Prior Authorized Balance: | $ 24,162 | $ - | $ - | $ - | $ - | $ 24,162 |
| 2020-2024 Funding: | $ 24,162 | $ - | $ - | $ - | $ - | $ 24,162 |

**CAPITAL BUDGET - PROJECT DETAIL**

| | |
|---|---|
| DEPARTMENT: | Electric |
| DIVISION: | Electric |
| FUND: | Electric |
| PROJECT LOCATION: | Various |
| PROJECT PRIORITY: | 4 - Medium |

This project is a NEED and not a WANT, but no significant risk in the deferral of this item

COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT: Sustainable Community

**Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:**

Ongoing testing and disposal of PCB contaminated pole mounted transformers to comply with EPA regulations.

**§ 806.1(3) SUMMARY OF PROJECT DATA**

| | |
|---|---|
| First Year in Program: | 1985 |
| Est. Completion Date: | 2020 |
| Est. Useful Life (in years): | 20 |
| Est. Total Cost: | $ 24,162 |
| Est. Spend @ 12/31/2019 (if underway)[1]: | $ - |
| % Complete (if underway): | 0.0% |
| Balance to be funded[1]: | $ 24,162 |

[1] For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

**PROJECT COST BY CATEGORY**

| CLASSIFICATION | ACCOUNT NUMBER | AMOUNT |
|---|---|---|
| Labor: | 5195106.9860 | $ 4,832 |
| Materials: | 5195106.9760 | $ 19,330 |
| Other Contracts: | | $ - |
| TOTAL PROJECT COST | | $ 24,162 |

[2] Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

**PROJECT FINANCING BY PLAN YEAR**

| § 806.1(3) SOURCE OF FUNDS: | Prior Authorized[2] | Actual Funds Utilized as of 03/31/19 | Estimated Expenditures 04/01/19 - 12/31/19 | Estimated Authorized Balance[2] 12/31/19 | 2020 | 2021 | 2022 | 2023 | 2024 | TOTAL 5 Year CIP |
|---|---|---|---|---|---|---|---|---|---|---|
| CURRENT RESOURCES | - | - | - | $ - | - | - | - | - | - | $ - |
| CAPITAL RESERVES | 24,162 | - | - | $ 24,162 | 24,162 | - | - | - | - | $ 24,162 |
| EQUIPMENT REPLACEMENT | | - | - | $ - | - | - | - | - | - | $ - |
| GRANTS (SPECIFY) | - | - | - | $ - | - | - | - | - | - | $ - |
| BOND ISSUES | - | - | - | $ - | - | - | - | - | - | $ - |
| STATE REVOLVING LOAN | - | - | - | $ - | - | - | - | - | - | $ - |
| OTHER (SPECIFY) | - | - | - | $ - | - | - | - | - | - | $ - |
| **TOTAL:** | $ 24,162 | $ - | $ - | $ 24,162 | $ 24,162 | $ - | $ - | $ - | $ - | $ 24,162 |

| § 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET | OPERATING IMPACT: | 2020 | 2021 | 2022 | 2023 | 2024 | TOTAL |
|---|---|---|---|---|---|---|---|
| | INCREMENTAL COSTS (NET SAVINGS) | - | - | - | - | - | $ - |

*Prior Authorized Balance includes 2019 carryover funding only.

**PROJECT NO:** EEQSF

**PROJECT TITLE:** Equipment Replacement Program

**PROJECT STATUS:** Reoccurring (with no end date)

**FUNDING SUMMARY:**

| | 2020 | 2021 | 2022 | 2023 | 2024 | Total 5 Year |
|---|---|---|---|---|---|---|
| New Funding: | $ 297,000 | $ 220,000 | $ 250,000 | $ 338,000 | $ 100,000 | $ 1,205,000 |
| *Prior Authorized Balance: | $ - | $ - | $ - | $ - | $ - | $ - |
| 2020-2024 Funding: | $ 297,000 | $ 220,000 | $ 250,000 | $ 338,000 | $ 100,000 | $ 1,205,000 |

## CAPITAL BUDGET - PROJECT DETAIL

| | |
|---|---|
| DEPARTMENT: | Electric |
| DIVISION: | Electric |
| FUND: | Electric |
| PROJECT LOCATION: | Various |
| PROJECT PRIORITY: | 1 - Highest Priority Level<br>Project underway and must be completed |
| COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT: | Sustainable Community |

## Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:

Planned advance funding accumulated through depreciation to replace essential equipment when necessary.

Please reference the supporting documentation on the following page for the Vehicle Replacement Program Schedule (2020-2024).

## § 806.1(3) SUMMARY OF PROJECT DATA

| | |
|---|---|
| First Year in Program: | Perpetual |
| Est. Completion Date: | Perpetual |
| Est. Useful Life (in years): | Various |
| Est. Total Cost: | $ 1,575,784 |
| Est. Spend @ 12/31/2019 (if underway)[1]: | $ 470,784 |
| % Complete (if underway): | 29.9% |
| Balance to be funded[1]: | $ 1,105,000 |

[1] For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

## PROJECT COST BY CATEGORY

| CLASSIFICATION | ACCOUNT NUMBER | AMOUNT |
|---|---|---|
| Labor: | | $ - |
| Materials: | | $ - |
| Other Contracts: | 5195106.9623 | $ 1,105,000 |
| TOTAL PROJECT COST | | $ 1,105,000 |

[2] Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

## PROJECT FINANCING BY PLAN YEAR

| § 806.1(3) SOURCE OF FUNDS: | Prior Authorized[2] | Actual Funds Utilized as of 03/31/19 | Estimated Expenditures 04/01/19 - 12/31/19 | Estimated Authorized Balance[2] 12/31/19 | 2020 | 2021 | 2022 | 2023 | 2024 | TOTAL 5 Year CIP |
|---|---|---|---|---|---|---|---|---|---|---|
| CURRENT RESOURCES | 68,400 | 51,544 | 16,856 | $ - | 57,716 | 57,239 | 73,500 | 121,770 | 43,424 | $ 353,649 |
| CAPITAL RESERVES | 252,784 | 252,784 | - | $ - | - | - | - | - | - | $ - |
| EQUIPMENT REPLACEMENT | 149,600 | 149,600 | - | $ - | 239,284 | 162,761 | 176,500 | 216,230 | 56,576 | $ 851,351 |
| GRANTS (SPECIFY) | - | - | - | $ - | - | - | - | - | - | $ - |
| BOND ISSUES | - | - | - | $ - | - | - | - | - | - | $ - |
| STATE REVOLVING LOAN | - | - | - | $ - | - | - | - | - | - | $ - |
| OTHER (SPECIFY) | - | - | - | $ - | - | - | - | - | - | $ - |
| TOTAL: | $ 470,784 | $ 453,928 | $ 16,856 | $ - | $ 297,000 | $ 220,000 | $ 250,000 | $ 338,000 | $ 100,000 | $ 1,205,000 |

| § 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET | OPERATING IMPACT: | 2020 | 2021 | 2022 | 2023 | 2024 | TOTAL |
|---|---|---|---|---|---|---|---|
| | INCREMENTAL COSTS (NET SAVINGS) | - | - | - | - | - | $ - |

# CITY OF NEWARK, DELAWARE
## VEHICLE REPLACEMENT PROGRAM SCHEDULE 2020-2024
## ELECTRIC UTILITY

| VEHICLE NUMBER | DESCRIPTION | | PURCHASE DATE | PURCHASE PRICE | MILEAGE AS OF 7/31/2019 | RECOM'D MILEAGE AT REPL | NORMAL YEARS LIFE | NORMAL REPL YEAR | BUDGET REPL YEAR | EQUIPMENT SINKING FUND BASIS | REPLACEMENT COSTS 2020 | 2021 | 2022 | 2023 | 2024 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | STAFF VEHICLES | | | | | | | | | | | | | | |
| 103 | 2018 Dodge Ram 2500, 4x4 Crew Cab | | 09/07/18 | 31,676 | 9,547 | 70,000 | 5 | 2018 | 2024 | 31,676 | | | | | 50,000 |
| 116 | 2008 Ford Focus Sedan | | 06/06/08 | 11,281 | 64,640 | 60,000 | 9 | 2017 | 2020 | 11,281 | 30,000 | | | | |
| 120 | 2012 Toyota Camry Hybrid | | 03/19/12 | 24,718 | 14,806 | 70,000 | 10 | 2022 | 2023 | 24,718 | | | | 38,000 | |
| | LINE TRUCKS | | | | | | | | | | | | | | |
| 100 | 1997 Int'l 4700 Stake Truck | | 03/14/97 | 39,285 | 57,370 | 110,000 | -- | -- | -- | 39,285 | | | | | |
| 101 | 2017 Int'l 4300 Bucket Truck | | 01/13/17 | 174,983 | 18,011 | 75,000 | 8 | 2025 | 2025 | 174,983 | | | | | |
| 104 | 2013 International 7400 Digger | | 09/21/12 | 228,003 | 40,690 | 75,000 | 8 | 2020 | 2020 | 228,003 | 267,000 | | | | |
| 105 | 2006 International 7400 Pole Truck | a. | 09/01/06 | 166,920 | 34,432 | 65,000 | 8 | 2014 | 2019 | 166,920 | | | | | |
| 115 | 2008 EZ Hauler 4100 Mini Digger Derrick | | 09/12/08 | 120,732 | -- | -- | 8 | 2016 | 2021 | 120,732 | | 155,000 | | | |
| 122 | 2017 Int'l 4300 Bucket Truck | | 01/13/17 | 197,637 | 14,304 | 65,000 | 8 | 2025 | 2025 | 197,637 | | | | | |
| 124 | 2009 Ford F750 Aerial Lift | a. | 09/18/09 | 149,600 | 55,205 | 100,000 | 8 | 2018 | 2019 | 149,600 | | | | | |
| 126 | 2018 Dodge Ram 2500, 4x4 Crew Cab | | 09/07/18 | 32,729 | 10,980 | 90,000 | 8 | 2018 | 2027 | 32,729 | | | | | |
| 130 | 2013 Ford F750 Aerial Lift | | 01/14/14 | 176,500 | 29,627 | 75,000 | 8 | 2022 | 2022 | 176,500 | | | 250,000 | | |
| 147 | 2015 Ford F750 Bucket Truck | | 07/31/15 | 164,100 | 23,211 | 75,000 | 8 | 2023 | 2023 | 164,100 | | | | 250,000 | |
| | PICK-UPS & VANS | | | | | | | | | | | | | | |
| 129 | 2011 Ford 3/4 Ton Utility Body | | 07/02/10 | 27,412 | 40,660 | 90,000 | 10 | 2020 | 2023 | 27,412 | | | | 50,000 | |
| 132 | 2008 GMC Sierra 2500 Pickup Truck | | 10/03/08 | 20,579 | 42,861 | 65,000 | 10 | 2018 | 2021 | 20,579 | | 35,000 | | | |
| 145 | 2017 Ford F250 Super Duty Utility Body 4x4 | | 08/11/17 | 37,552 | 7,982 | 65,000 | 10 | 2027 | 2027 | 37,552 | | | | | |
| | OTHER EQUIPMENT | | | | | | | | | | | | | | |
| 154 | 2005 Daewoo 5K Forklift | | 10/14/05 | 21,450 | -- | -- | 10 | 2015 | 2021 | 21,450 | | 30,000 | | | |
| 155 | 2008 Komatsu FG45T 10K Forklift | | 11/30/15 | 24,900 | -- | -- | 10 | 2019 | 2024 | 24,900 | | | | | 50,000 |
| **TOTAL ELECTRIC UTILITY** | | | | | | | **GROSS ACQUISITION COST** | | | | **$ 297,000** | **$ 220,000** | **$ 250,000** | **$ 338,000** | **$ 100,000** |
| | | | | | | | LESS: USE OF CAPITAL RESERVES | | | | - | - | - | - | - |
| | a. This vehicle scheduled to be replaced in 2019. | | | | | | LESS: USE OF CURRENT RESOURCES | | | | (57,716) | (57,239) | (73,500) | (121,770) | (43,424) |
| | | | | | | | **NET EQUIPMENT SINKING FUND TOTAL** | | | | **$ 239,284** | **$ 162,761** | **$ 176,500** | **$ 216,230** | **$ 56,576** |

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# ELECTRIC DEPARTMENT

# APPENDICES

**CITY OF NEWARK, DELAWARE**
**ELECTRIC DEPARTMENT**
**APPENDIX A - OBJECT CODE 7131 AND 8131 - (2019 AND 2020 BUDGET COMPARISON)**

**ELECTRIC DEPARTMENT**

| Code | 2020 IT Annual Operating Expense | Renewal | 2019 Budget | 2020 Budget | +/- Prior Year | Description |
|---|---|---|---|---|---|---|
| 7131 | Smart Meter Equipment Maintenance | As Needed | 30,000.00 | 30,000.00 | - | Proactive maintenance on smart meter wifi-network as well as batteries for 17 gatekeepers |
| 8131 | Auto Restoration System Software Maintenance | Annual | 15,160.00 | 15,570.00 | 410.00 | Electric Service Auto Restoration Software |
| 8131 | CYME Software Annual Maintenance | Annual | 10,200.00 | 10,700.00 | 500.00 | Electric Outage Simulation Software |
| 8131 | Elster License Fee (SLA) Tropos Software Maintenance | Annual | 35,000.00 | 35,000.00 | - | Smart-Meter System (Wireless Infrastructure) |
| 8131 | Elster Software Maintenance - EAMS | Annual | 13,000.00 | 13,000.00 | - | Smart-Meter System (Radio Infrastructure) |
| 8131 | Elster Upgrade | One Time | 21,000.00 | - | (21,000.00) | Smart-Meter System (Radio Infrastructure) - Upgrade |
| 8131 | Esri Small Government ELA | Annual | 5,000.00 | 5,000.00 | - | GIS Server, Client, Cloud Licensing |
| 8131 | FieldSense Application & Implementation | One Time | - | 6,721.50 | 6,721.50 | |
| 8131 | FieldSense Maintenance | Annual | - | 1,750.00 | 1,750.00 | |
| 8131 | Harris - Smartworks - Oracle Database Tuning | Annual | 8,200.00 | 8,700.00 | 500.00 | Smart Meter System - Proactive Oracle Database Maintenance |
| 8131 | Harris - Smartworks Software Maintenance | Annual | 12,750.00 | 13,600.00 | 850.00 | Smart-Meter System (Middleware) |
| 8131 | Harris - NorthStar Annual Maintenance | Annual | 36,900.00 | 30,753.00 | (6,147.00) | Utility Billing Software (including Smart-Meter System) |
| 8131 | Oracle Software Subscription Renewal (Not Harris) | Annual | 2,500.00 | 2,500.00 | - | Smart Meter - Oracle Database Software License |
| 8131 | Redhat Software Maintenance | Annual | 1,250.00 | 1,100.00 | (150.00) | Smart Meter - Linux Operating System for Servers |
| 8131 | SagLine Software | Annual | 1,000.00 | 1,000.00 | - | Electrical Engineering Utility Weight and Span Software |
| 8131 | Scada System Licensing Maintenance | Annual | 56,000.00 | 51,400.00 | (4,600.00) | Electric SCADA HMI and Device Licenses |
| 8131 | Tyler Technologies Munis Annual Maintenance | Annual | 8,743.54 | 8,309.54 | (434.00) | Tyler Technologies Munis - Finance and Accounting, Taxes, Permitting, Licenses, Work Order Management |
| 8131 | Verizon - Cellular/Data | Monthly | 7,700.00 | 7,700.00 | - | Computer Mobile Internet Connectivity |
| 8131 | VOIP Networks - Cloud9 VOIP Subscription | Monthly | 3,472.22 | 3,472.22 | - | VOIP Phone System |
| 8131 | Canon Financial - Copier Lease | Monthly | 1,311.75 | - | (1,311.75) | Canon Copier Leases |
| | *7131 and 8131 Subtotals:* | | *269,187.51* | *246,276.26* | *(22,911.25)* | |
| | | | **$ 269,188.00** | **$ 246,276.00** | **$ (22,911.00)** | |