



Lehigh County Authority

FINAL 5-YEAR CAPITAL PLAN

ADMINISTRATION

2025-2029

OCTOBER 2024

**LEHIGH COUNTY AUTHORITY
5-YEAR CAPITAL PLAN
2025-2029**

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2025-2029 Capital Plan

Glossary of Acronyms & Terms

The following is a listing of acronyms and terms used in the Capital Plan Summary and Project Detail Sheets.

LCA Water and/or Wastewater Divisions/Systems

| LCA Water and/or Wastewater Divisions/Systems | | Water | Wastewater |
|---|---|-------|------------|
| <i>AD</i> | Allentown Division | X | X |
| <i>AWD</i> | Arcadia West Division | X | X |
| <i>BHD</i> | Beverly Hills Division | X | |
| <i>CLD</i> | Central Lehigh Division | X | |
| <i>CFD</i> | Clear View Farms Division | X | |
| <i>ECD</i> | Emmaus Consecutive Division | X | |
| <i>HHD</i> | Heidelberg Heights Division | X | X |
| <i>LLRI-1</i> | Little Lehigh Relief Interceptor, Phase 1 | | X |
| <i>LLRI-2</i> | Little Lehigh Relief Interceptor, Phase 2 | | X |
| <i>LTD</i> | Lynn Township Division | | X |
| <i>MCD</i> | Mill Creek Division | X | |
| <i>MND</i> | Madison Park Division | X | |
| <i>NWD</i> | North Whitehall Division | X | |
| <i>PLD</i> | Pine Lakes Division | X | |
| <i>SSD</i> | Sands Spring Division | | X |
| <i>UMD</i> | Upper Milford Division | X | X |
| <i>UMCD</i> | Upper Central Milford Division (Buss Acres) | X | |
| <i>WLI</i> | Western Lehigh Interceptor | | X |
| <i>WTD</i> | Washington Township Division | X | X |
| <i>WWD</i> | Wynnewood Division | | X |

Project Type

| Project Type | Description |
|----------------|---|
| <i>AO</i> | Administrative Order |
| <i>UW</i> | Uncompleted Work ⁽¹⁾ |
| <i>S-7-MCI</i> | Schedule-7 (<i>Lease Required</i>) Major Capital Improvement ⁽²⁾ |
| <i>LCA-MCI</i> | LCA Developed Major Capital Improvement ⁽²⁾ |
| <i>Regular</i> | A project that does not fit in any of the aforementioned special categories |

(1) *Uncompleted Work: City Projects that were supposed to be complete by the time of settlement. The City and LCA have reached an agreement for LCA to execute them.*

(2) *Major Capital Improvement: In accordance with the Lease, all Major Capital Improvements must be approved by the City.*

Project Funding

| Project Funding | Description |
|------------------------|---|
| <i>LCA</i> | Funded by LCA |
| <i>100% Reimb</i> | All costs are 100% reimbursable by fees charged |
| <i>Fees & LCA</i> | Costs partly recovered through fees charged and partly funded by LCA |
| <i>Allentown</i> | Funded by the City of Allentown |
| <i>CCRC</i> | Capital Cost Recovery Charge ⁽¹⁾ ; Applies only to City approved MCI |

(1) *Capital Cost Recovery Charge: An on-going user fee that is above the rate caps set forth in the Lease to allow the recovery of the cost of an MCI. Rate payers are charged based upon usage.*

Project Category

Projects have been categorized to identify the primary and secondary reasons for the need. In some cases there is no secondary reason that would be applicable.

| Project Category | Description |
|-------------------------|--|
| <i>Regulatory</i> | Required to meet Regulatory requirements |
| <i>New Cust</i> | New Customers |
| <i>CA/OS</i> | Concession Lease/Operating Standards |
| <i>AM - Low</i> | Asset Management - Low Risk |
| <i>AM - Med</i> | Asset Management - Medium Risk |
| <i>AM - High</i> | Asset Management - High Risk |
| <i>AM - Varies</i> | Asset Management - Varies ⁽¹⁾ |
| <i>Efficiency</i> | Efficiency |
| <i>Sys Imp</i> | System Improvement |
| <i>Rev Opprt</i> | Revenue Opportunity |
| <i>Planning</i> | Planning |
| <i>Change of Law</i> | Change of Law |
| <i>N/A</i> | Not Applicable |

(1) *Applies to Asset Management Projects, where there are multiple standalone sub-projects of varied levels of "risk".*

Approval Stage

| Approval Stage | Description |
|-----------------------|---------------------------------------|
| <i>A</i> | Annual Project, no approvals required |
| <i>S</i> | Study/Planning Phase |
| <i>D</i> | Design Phase |
| <i>C</i> | Construction/Implementation Phase |
| <i>E</i> | Entire Project |
| <i>V</i> | Various Phases |
| <i>P</i> | Pending Board approval |

ADMINISTRATION

**ADMINISTRATION
5-YEAR CAPITAL PLAN
2025-2029**

CAPITAL FINANCING JUSTIFICATION

The Administrative projects of the Authority are funded through charge-backs to the various operating and capital budgets.

The Administrative projects are either a strictly Suburban Division (SD) project or a project which benefits both the City and Suburban Division (CON). In the case of the multi-division projects in the plan period, the total costs have been apportioned 50% to the Suburban Division and 50% to the Allentown Division.

Project CON-A-1 is an organization-wide project related to the annual upgrades of computer hardware and software.

Project CON-A-2 is an organizational-wide upgrade to the Geographic Information System (GIS).

Project CON-A-3 is an organization-wide update and implementation of the LCA IT Master Plan.

Project CON-A-4 is an organization-wide project to develop an electronic document management system.

Project CON-A-5 is an organization-wide project to add additional security and disaster recovery tools to the existing IT system.

Project CON-A-6 is an organization-wide project to upgrade the existing CMMS system.

Project CON-A-7 is an organization-wide project to implement new functionality in Munis

Project CON-A-8 is an organization-wide project for Main Office improvements

Funding Sources for each project are shown below.

| ADMINISTRATION | <u>2025</u> | <u>2026</u> | <u>2027</u> | <u>2028</u> | <u>2029</u> | <u>TOTAL</u> |
|----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|
| Project Costs | <u>\$1,650,000</u> | <u>\$495,000</u> | <u>\$415,000</u> | <u>\$320,000</u> | <u>\$320,000</u> | <u>\$3,200,000</u> |
| Funding Sources: | | | | | | |
| Operating/Capital Reserves | \$1,650,000 | \$495,000 | \$415,000 | \$320,000 | \$320,000 | \$3,200,000 |
| New Borrowing | - | - | - | - | - | - |
| Total Funding | <u>\$1,650,000</u> | <u>\$495,000</u> | <u>\$415,000</u> | <u>\$320,000</u> | <u>\$320,000</u> | <u>\$3,200,000</u> |

**LEHIGH COUNTY AUTHORITY
ADMINISTRATION
2025-2029 CAPITAL PROGRAM**

| Project # | Name or Title of Proposal | Prj. Category | (1) Prj. Funding | Approvals Stage (1) | This Capital Program | | | | | | |
|--------------------|--|---------------|------------------|---------------------|----------------------|---------------------|-------------------|-------------------|-------------------|-------------------|---------------------|
| | | | | | 2024 Budget Approved | 2025 Year 1 | 2026 Year 2 | 2027 Year 3 | 2028 Year 4 | 2029 Year 5 | 2025-2029 Total |
| CON-A-1* | Computer System Hardware & Software Upgrades | AM - High | LCA | A | \$ 50,000 | \$ 50,000 | \$ 30,000 | \$ 20,000 | \$ 20,000 | \$ 20,000 | \$ 140,000 |
| CON-A-2* | Geographic Information System (GIS) Upgrades & Application Development | Efficiency | LCA | V | \$ 35,000 | \$ 50,000 | \$ 50,000 | \$ - | \$ - | \$ - | \$ 100,000 |
| CON-A-3* | Information Technology Master Plan Update | Planning | LCA | A | \$ 50,000 | \$ 50,000 | \$ 20,000 | \$ - | \$ - | \$ - | \$ 70,000 |
| CON-A-4* | Document Management | Efficiency | LCA | V | \$ 50,000 | \$ 25,000 | \$ 25,000 | \$ 25,000 | \$ 5,000 | \$ 5,000 | \$ 85,000 |
| CON-A-5* | Disaster Recovery/Security Upgrades | Efficiency | LCA | A | \$ 75,000 | \$ 100,000 | \$ 100,000 | \$ 100,000 | \$ 25,000 | \$ 25,000 | \$ 350,000 |
| CON-A-6* | CMMS Upgrades | Efficiency | LCA | A | \$ 185,000 | \$ 40,000 | \$ 20,000 | \$ 20,000 | \$ 20,000 | \$ 20,000 | \$ 120,000 |
| CON-A-7 | New Munis Implementation | Efficiency | LCA | C | \$ 800,000 | \$ 385,000 | \$ - | \$ - | \$ - | \$ - | \$ 385,000 |
| CON-A-8* | Main Office Improvements | Efficiency | LCA | P | \$ 550,000 | \$ 950,000 | \$ 250,000 | \$ 250,000 | \$ 250,000 | \$ 250,000 | \$ 1,950,000 |
| GRAND TOTAL | | | | | \$ 1,795,000 | \$ 1,650,000 | \$ 495,000 | \$ 415,000 | \$ 320,000 | \$ 320,000 | \$ 3,200,000 |

(*) CON = a Project that benefits both the Allentown and Suburban Divisions. All projects are LCA funded.

(1) Reference Glossary of Acronyms & Terms found immediately after the Table of Contents

(2) If blank project cost is not applicable (annual project) or to be determined

**LEHIGH COUNTY AUTHORITY
ADMINISTRATION DIVISION-CAPITAL IMPROVEMENT PLAN
PROJECT DETAIL SHEET**

| | | | | | |
|----------------------|---|--------------------|----------|--------------------|---------|
| Project Name | COMPUTER SYSTEM HARDWARE & SOFTWARE UPGRADES | | | | |
| Budget Area | Administration | Department | IT | Project No. | CON-A-1 |
| Location | Suburban | Prj. Type | Vertical | Prj. Score | 18 |
| Prj Initiator | Moughan | Prj Manager | Moughan | | |

| |
|--|
| Detailed Project Description |
| This project includes both hardware and software costs for server replacements for units older than 6 years. |

| Category | Definition | LCA Weight | Prj Score | Weighted Score |
|---|---|------------|-----------|----------------|
| Environmental | | | | |
| Regulatory Requirement | Project will address a local, state and/or federal regulatory requirement. | 25% | 0 | 0% |
| Social | | | | |
| Health/Safety Improvement | Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement. | 25% | 0 | 0% |
| Level of Service | Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc. | 15% | 50 | 8% |
| Innovation and Automation Enhancements | Project will enhance achievement of LCA's goals for innovation and/or automation. | 5% | 100 | 5% |
| Community Impact | Project will benefit Community and/or external stakeholders. | 10% | 0 | 0% |
| Economic | | | | |
| Economic Development | Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region. | 10% | 0 | 0% |
| Risk Mitigation | Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resiliency. | 10% | 50 | 5% |

| |
|-------------------------------|
| Additional Information |
|-------------------------------|

System Location UNC – OTHER WATER OR SEWER **Will this project require Land Rights?**

Project inception Date 1/2/2017 **Anticipated Project Completion Date** 12/31/2029

| | | | |
|--------------------|---------|---------------------|---|
| Project No. | CON-A-1 | Project Name | COMPUTER SYSTEM HARDWARE & SOFTWARE UPGRADES |
|--------------------|---------|---------------------|---|

Primary Prj Category Efficiency **Secondary Prj Category** System Improvement

Project Drivers and Needs

- | | |
|---|--|
| <input type="checkbox"/> New Facility | <input type="checkbox"/> End of Useful Life |
| <input type="checkbox"/> Existing Facility - Upgrade | <input checked="" type="checkbox"/> Obsolescence |
| <input checked="" type="checkbox"/> Scheduled Replacement | <input type="checkbox"/> Inadequate Capacity |
| <input type="checkbox"/> System Improvements | <input type="checkbox"/> Regulatory |

Notes

Improved efficiencies will enhance employee productivity and reduce computer problems.

Capital Funds Requested for Project

| | | | |
|-------------------------------|------------------|--------------------------------|----------|
| LCA Staff | \$20,000 | Project Estimated Level | Planning |
| Land Acquisition | \$0 | Project Funding | LCA |
| Construction/Equipment | \$120,000 | Grant Eligibility | No |
| Professional Services | \$0 | Future Spending | \$0 |
| Contingencies | \$0 | | |
| Total | \$140,000 | | |

| | | |
|--------------------------------|------------------|----------|
| Current Budget 2024 | \$50,000 | |
| First Year Budget 2025 | \$50,000 | Planning |
| Second Year Budget 2026 | \$30,000 | Planning |
| Third Year Budget 2027 | \$20,000 | Planning |
| Fourth Year Budget 2028 | \$20,000 | Planning |
| Fifth Year Budget 2029 | \$20,000 | Planning |
| Total 2025-2029 | \$140,000 | |

**LEHIGH COUNTY AUTHORITY
ADMINISTRATION DIVISION-CAPITAL IMPROVEMENT PLAN
PROJECT DETAIL SHEET**

| | | | | | |
|----------------------|---|--------------------|---------|--------------------|---------|
| Project Name | GIS UPGRADES & APPLICATION DEVELOPMENT | | | | |
| Budget Area | Administration | Department | IT | Project No. | CON-A-2 |
| Location | Suburban | Prj. Type | Both | Prj. Score | 33 |
| Prj Initiator | Moughan | Prj Manager | Moughan | | |

| Detailed Project Description |
|--|
| This project supports the continued development of LCA's Geographic Information System (GIS). The scope includes implementation of ESRI's event server, which will allow SCADA integration with the GIS system, replacement of existing GIS network which will allow advanced hydraulic modeling and customer service outage scenarios and solutions, upgrades to the web and mobile GIS platforms, and completion and adoption of a GIS Strategic Plan to assist with the utilization of all software and integrations. |

| Category | Definition | LCA Weight | Prj Score | Weighted Score |
|---|---|-------------------|------------------|-----------------------|
| Environmental | | | | |
| Regulatory Requirement | Project will address a local, state and/or federal regulatory requirement. | 25% | 10 | 3% |
| Social | | | | |
| Health/Safety Improvement | Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement. | 25% | 0 | 0% |
| Level of Service | Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc. | 15% | 100 | 15% |
| Innovation and Automation Enhancements | Project will enhance achievement of LCA's goals for innovation and/or automation. | 5% | 100 | 5% |
| Community Impact | Project will benefit Community and/or external stakeholders. | 10% | 50 | 5% |
| Economic | | | | |
| Economic Development | Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region. | 10% | 0 | 0% |
| Risk Mitigation | Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resiliency. | 10% | 50 | 5% |

| Additional Information |
|-------------------------------|
|-------------------------------|

System Location UNC – OTHER WATER OR SEWER **Will this project require Land Rights?**

Project inception Date 1/2/2019 **Anticipated Project Completion Date** 12/31/2026

| | | | |
|--------------------|---------|---------------------|---|
| Project No. | CON-A-2 | Project Name | GIS UPGRADES & APPLICATION DEVELOPMENT |
|--------------------|---------|---------------------|---|

Primary Prj Category Efficiency **Secondary Prj Category** System Improvement

Project Drivers and Needs

- | | |
|---|--|
| <input type="checkbox"/> New Facility | <input type="checkbox"/> End of Useful Life |
| <input type="checkbox"/> Existing Facility - Upgrade | <input type="checkbox"/> Obsolescence |
| <input type="checkbox"/> Scheduled Replacement | <input type="checkbox"/> Inadequate Capacity |
| <input checked="" type="checkbox"/> System Improvements | <input type="checkbox"/> Regulatory |

Notes

GIS upgrades will enhance usability and functionality for internal staff; also crucial for asset management, security, and supporting LCA's CMMS system.

Capital Funds Requested for Project

| | | | |
|-------------------------------|------------------|--------------------------------|----------|
| LCA Staff | \$50,000 | Project Estimated Level | Planning |
| Land Acquisition | \$0 | Project Funding | LCA |
| Construction/Equipment | \$40,000 | Grant Eligibility | No |
| Professional Services | \$10,000 | Future Spending | \$0 |
| Contingencies | \$0 | | |
| Total | \$100,000 | | |

| | | |
|--------------------------------|------------------|----------|
| Current Budget 2024 | \$35,000 | |
| First Year Budget 2025 | \$50,000 | Planning |
| Second Year Budget 2026 | \$50,000 | Planning |
| Third Year Budget 2027 | \$0 | None |
| Fourth Year Budget 2028 | \$0 | None |
| Fifth Year Budget 2029 | \$0 | None |
| Total 2025-2029 | \$100,000 | |

**LEHIGH COUNTY AUTHORITY
ADMINISTRATION DIVISION-CAPITAL IMPROVEMENT PLAN
PROJECT DETAIL SHEET**

| | | | | | |
|----------------------|--|--------------------|---------|--------------------|---------|
| Project Name | INFORMATION TECHNOLOGY MASTER PLAN UPDATE | | | | |
| Budget Area | Administration | Department | IT | Project No. | CON-A-3 |
| Location | Suburban | Prj. Type | Both | Prj. Score | 34 |
| Prj Initiator | Moughan | Prj Manager | Moughan | | |

Detailed Project Description

This project provides the framework and guidance for updating and implementing technology systems across the organization, and includes funding for investigation, purchasing, implementing and supporting IT hardware and software.

| Category | Definition | LCA Weight | Prj Score | Weighted Score |
|---|---|-------------------|------------------|-----------------------|
| Environmental | | | | |
| Regulatory Requirement | Project will address a local, state and/or federal regulatory requirement. | 25% | 0 | 0% |
| Social | | | | |
| Health/Safety Improvement | Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement. | 25% | 0 | 0% |
| Level of Service | Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc. | 15% | 75 | 11% |
| Innovation and Automation Enhancements | Project will enhance achievement of LCA's goals for innovation and/or automation. | 5% | 100 | 5% |
| Community Impact | Project will benefit Community and/or external stakeholders. | 10% | 50 | 5% |
| Economic | | | | |
| Economic Development | Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region. | 10% | 50 | 5% |
| Risk Mitigation | Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resiliency. | 10% | 75 | 8% |

Additional Information

System Location UNC – OTHER WATER OR SEWER **Will this project require Land Rights?**

Project inception Date 1/2/2019 **Anticipated Project Completion Date** 12/31/2026

| | | | |
|--------------------|---------|---------------------|--|
| Project No. | CON-A-3 | Project Name | INFORMATION TECHNOLOGY MASTER PLAN UPDATE |
|--------------------|---------|---------------------|--|

Primary Prj Category Efficiency **Secondary Prj Category** System Improvement

Project Drivers and Needs

- | | |
|---|--|
| <input type="checkbox"/> New Facility | <input type="checkbox"/> End of Useful Life |
| <input type="checkbox"/> Existing Facility - Upgrade | <input type="checkbox"/> Obsolescence |
| <input checked="" type="checkbox"/> Scheduled Replacement | <input type="checkbox"/> Inadequate Capacity |
| <input checked="" type="checkbox"/> System Improvements | <input type="checkbox"/> Regulatory |

Notes

A 2019 study identified needs in both technology and software support for LCA staff.

Capital Funds Requested for Project

| | | | |
|-------------------------------|-----------------|--------------------------------|----------|
| LCA Staff | \$20,000 | Project Estimated Level | Planning |
| Land Acquisition | \$0 | Project Funding | LCA |
| Construction/Equipment | \$50,000 | Grant Eligibility | No |
| Professional Services | \$0 | Future Spending | \$0 |
| Contingencies | \$0 | | |
| Total | \$70,000 | | |

| | | |
|--------------------------------|-----------------|----------|
| Current Budget 2024 | \$50,000 | |
| First Year Budget 2025 | \$50,000 | Planning |
| Second Year Budget 2026 | \$20,000 | Planning |
| Third Year Budget 2027 | \$0 | None |
| Fourth Year Budget 2028 | \$0 | None |
| Fifth Year Budget 2029 | \$0 | None |
| Total 2025-2029 | \$70,000 | |

**LEHIGH COUNTY AUTHORITY
ADMINISTRATION DIVISION-CAPITAL IMPROVEMENT PLAN
PROJECT DETAIL SHEET**

| | | | | | |
|----------------------|----------------------------|--------------------|---------|--------------------|---------|
| Project Name | DOCUMENT MANAGEMENT | | | | |
| Budget Area | Administration | Department | IT | Project No. | CON-A-4 |
| Location | Suburban | Prj. Type | Both | Prj. Score | 21 |
| Prj Initiator | Moughan | Prj Manager | Moughan | | |

| |
|---|
| Detailed Project Description |
| This project entails and Electronic Document Management System (EDMS) to store, search, retrieve, and share documents. Digital, cross-referenced documents will improve accessibility and enhance workflow. |

| Category | Definition | LCA Weight | Prj Score | Weighted Score |
|---|---|------------|-----------|----------------|
| Environmental | | | | |
| Regulatory Requirement | Project will address a local, state and/or federal regulatory requirement. | 25% | 0 | 0% |
| Social | | | | |
| Health/Safety Improvement | Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement. | 25% | 0 | 0% |
| Level of Service | Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc. | 15% | 75 | 11% |
| Innovation and Automation Enhancements | Project will enhance achievement of LCA's goals for innovation and/or automation. | 5% | 100 | 5% |
| Community Impact | Project will benefit Community and/or external stakeholders. | 10% | 0 | 0% |
| Economic | | | | |
| Economic Development | Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region. | 10% | 0 | 0% |
| Risk Mitigation | Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resiliency. | 10% | 50 | 5% |

| |
|-------------------------------|
| Additional Information |
|-------------------------------|

System Location UNC – OTHER WATER OR SEWER **Will this project require Land Rights?**

Project inception Date 1/2/2018 **Anticipated Project Completion Date** 12/31/2029

| | | | |
|--------------------|---------|---------------------|----------------------------|
| Project No. | CON-A-4 | Project Name | DOCUMENT MANAGEMENT |
|--------------------|---------|---------------------|----------------------------|

Primary Prj Category Efficiency **Secondary Prj Category** System Improvement

Project Drivers and Needs

- | | |
|---|--|
| <input type="checkbox"/> New Facility | <input type="checkbox"/> End of Useful Life |
| <input type="checkbox"/> Existing Facility - Upgrade | <input type="checkbox"/> Obsolescence |
| <input type="checkbox"/> Scheduled Replacement | <input type="checkbox"/> Inadequate Capacity |
| <input checked="" type="checkbox"/> System Improvements | <input type="checkbox"/> Regulatory |

Notes

Readily accessible archived documents (plans, reports, easements, agreements, etc.) will reduce research time and increase efficiencies. Also, active storage space for maintaining hard copies of documents can be reduced and optimized.

Capital Funds Requested for Project

| | | | |
|-------------------------------|-----------------|--------------------------------|----------|
| LCA Staff | \$25,000 | Project Estimated Level | Planning |
| Land Acquisition | \$0 | Project Funding | LCA |
| Construction/Equipment | \$0 | Grant Eligibility | No |
| Professional Services | \$50,000 | Future Spending | \$0 |
| Contingencies | \$10,000 | | |
| Total | \$85,000 | | |

| | | |
|--------------------------------|-----------------|----------|
| Current Budget 2024 | \$50,000 | |
| First Year Budget 2025 | \$25,000 | Planning |
| Second Year Budget 2026 | \$25,000 | Planning |
| Third Year Budget 2027 | \$25,000 | Planning |
| Fourth Year Budget 2028 | \$5,000 | Planning |
| Fifth Year Budget 2029 | \$5,000 | Planning |
| Total 2025-2029 | \$85,000 | |

**LEHIGH COUNTY AUTHORITY
ADMINISTRATION DIVISION-CAPITAL IMPROVEMENT PLAN
PROJECT DETAIL SHEET**

| | | | | | |
|----------------------|--|--------------------|----------------|--------------------|---------|
| Project Name | DISASTER RECOVERY/SECURITY UPGRADES | | | | |
| Budget Area | Administration | Department | Administration | Project No. | CON-A-5 |
| Location | Suburban | Prj. Type | Both | Prj. Score | 74 |
| Prj Initiator | Moughan | Prj Manager | Moughan | | |

| |
|--|
| Detailed Project Description |
| This project addresses areas to add or supplement security and includes development of physical plant security master plans and perimeter studies at KIWWTP, WFP, and other LCA major facilities. Project also involves improving disaster recovery and resilience in event of a catastrophic event. |

| Category | Definition | LCA Weight | Prj Score | Weighted Score |
|---|---|------------|-----------|----------------|
| Environmental | | | | |
| Regulatory Requirement | Project will address a local, state and/or federal regulatory requirement. | 25% | 75 | 19% |
| Social | | | | |
| Health/Safety Improvement | Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement. | 25% | 100 | 25% |
| Level of Service | Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc. | 15% | 50 | 8% |
| Innovation and Automation Enhancements | Project will enhance achievement of LCA's goals for innovation and/or automation. | 5% | 100 | 5% |
| Community Impact | Project will benefit Community and/or external stakeholders. | 10% | 75 | 8% |
| Economic | | | | |
| Economic Development | Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region. | 10% | 0 | 0% |
| Risk Mitigation | Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resiliency. | 10% | 100 | 10% |

| |
|-------------------------------|
| Additional Information |
|-------------------------------|

System Location CAC- W CITY WATER **Will this project require Land Rights?**

Project inception Date 1/2/2019 **Anticipated Project Completion Date** 12/31/2029

| | | | |
|--------------------|---------|---------------------|--|
| Project No. | CON-A-5 | Project Name | DISASTER RECOVERY/SECURITY UPGRADES |
|--------------------|---------|---------------------|--|

Primary Prj Category System Improvement **Secondary Prj Category** Regulatory

| |
|----------------------------------|
| Project Drivers and Needs |
|----------------------------------|

- | | |
|---|--|
| <input type="checkbox"/> New Facility | <input type="checkbox"/> End of Useful Life |
| <input checked="" type="checkbox"/> Existing Facility - Upgrade | <input type="checkbox"/> Obsolescence |
| <input type="checkbox"/> Scheduled Replacement | <input type="checkbox"/> Inadequate Capacity |
| <input checked="" type="checkbox"/> System Improvements | <input type="checkbox"/> Regulatory |

Notes

| |
|---|
| Project encompasses site security and cyber security. |
|---|

| |
|--|
| Capital Funds Requested for Project |
|--|

| | | | |
|-------------------------------|------------------|--------------------------------|-------------|
| LCA Staff | \$25,000 | Project Estimated Level | Preliminary |
| Land Acquisition | \$0 | Project Funding | LCA |
| Construction/Equipment | \$250,000 | Grant Eligibility | No |
| Professional Services | \$50,000 | Future Spending | \$0 |
| Contingencies | \$25,000 | | |
| Total | \$350,000 | | |

| | | |
|--------------------------------|------------------|----------|
| Current Budget 2024 | \$75,000 | |
| First Year Budget 2025 | \$100,000 | Planning |
| Second Year Budget 2026 | \$100,000 | Planning |
| Third Year Budget 2027 | \$100,000 | Planning |
| Fourth Year Budget 2028 | \$25,000 | Planning |
| Fifth Year Budget 2029 | \$25,000 | Planning |
| Total 2025-2029 | \$350,000 | |

**LEHIGH COUNTY AUTHORITY
ADMINISTRATION DIVISION-CAPITAL IMPROVEMENT PLAN
PROJECT DETAIL SHEET**

| | | | | | |
|----------------------|----------------------|--------------------|---------|--------------------|---------|
| Project Name | CMMS UPGRADES | | | | |
| Budget Area | Administration | Department | IT | Project No. | CON-A-6 |
| Location | Suburban | Prj. Type | Both | Prj. Score | 40 |
| Prj Initiator | Moughan | Prj Manager | Moughan | | |

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| Detailed Project Description |
| This project entails the upgrade of multiple modules of the Computerized Maintenance Management System (CMMS). The modules include implementation of a complete inventory system, API integrations with GIS, site upgrades, and additional security enhancements. This project will provide more opportunities for automation of vertical asset management through use of ESRI's Goevent server and LCA SCADA information. |

| Category | Definition | LCA Weight | Prj Score | Weighted Score |
|---|---|------------|-----------|----------------|
| Environmental | | | | |
| Regulatory Requirement | Project will address a local, state and/or federal regulatory requirement. | 25% | 25 | 6% |
| Social | | | | |
| Health/Safety Improvement | Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement. | 25% | 25 | 6% |
| Level of Service | Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc. | 15% | 90 | 14% |
| Innovation and Automation Enhancements | Project will enhance achievement of LCA's goals for innovation and/or automation. | 5% | 100 | 5% |
| Community Impact | Project will benefit Community and/or external stakeholders. | 10% | 10 | 1% |
| Economic | | | | |
| Economic Development | Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region. | 10% | 0 | 0% |
| Risk Mitigation | Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resiliency. | 10% | 75 | 8% |

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| Additional Information |
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System Location CLD – SD WATER CENTRAL **Will this project require Land Rights?**

Project inception Date 1/2/2018 **Anticipated Project Completion Date** 12/31/2026

| | | | |
|--------------------|---------|---------------------|----------------------|
| Project No. | CON-A-6 | Project Name | CMMS UPGRADES |
|--------------------|---------|---------------------|----------------------|

Primary Prj Category Asset Management Plan **Secondary Prj Category** Efficiency

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| Project Drivers and Needs |
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- | | |
|---|--|
| <input type="checkbox"/> New Facility | <input type="checkbox"/> End of Useful Life |
| <input type="checkbox"/> Existing Facility - Upgrade | <input type="checkbox"/> Obsolescence |
| <input type="checkbox"/> Scheduled Replacement | <input type="checkbox"/> Inadequate Capacity |
| <input checked="" type="checkbox"/> System Improvements | <input type="checkbox"/> Regulatory |

Notes

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| Project will support need for additional integrations, automation, and security, and also provide foundation for the global asset management plan strategic goal. |
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| Capital Funds Requested for Project |
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|-------------------------------|------------------|--------------------------------|----------|
| LCA Staff | \$50,000 | Project Estimated Level | Planning |
| Land Acquisition | \$0 | Project Funding | LCA |
| Construction/Equipment | \$50,000 | Grant Eligibility | No |
| Professional Services | \$20,000 | Future Spending | \$0 |
| Contingencies | \$0 | | |
| Total | \$120,000 | | |

| | | |
|--------------------------------|------------------|----------|
| Current Budget 2024 | \$185,000 | |
| First Year Budget 2025 | \$40,000 | Planning |
| Second Year Budget 2026 | \$20,000 | Planning |
| Third Year Budget 2027 | \$20,000 | Planning |
| Fourth Year Budget 2028 | \$20,000 | Planning |
| Fifth Year Budget 2029 | \$20,000 | Planning |
| Total 2025-2029 | \$120,000 | |

**LEHIGH COUNTY AUTHORITY
ADMINISTRATION DIVISION-CAPITAL IMPROVEMENT PLAN
PROJECT DETAIL SHEET**

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|----------------------|---------------------------------|-------------------|--------------------|---------|----------------------------|
| Project Name | NEW MUNIS IMPLEMENTATION | | | | |
| Budget Area | Administration | Department | Administration | | Project No. CON-A-7 |
| Location | Suburban | | Prj. Type | Both | Prj. Score 25 |
| Prj Initiator | Klein | | Prj Manager | Moughan | |

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| Detailed Project Description |
| This project covers detailed planning and integration to complete a new implementation of MUNIS integrated business software, which includes participation of LCA staff and assistance from implementation specialists at Tyler Technology. |

| Category | Definition | LCA Weight | Prj Score | Weighted Score |
|---|---|------------|-----------|----------------|
| Environmental | | | | |
| Regulatory Requirement | Project will address a local, state and/or federal regulatory requirement. | 25% | 0 | 0% |
| Social | | | | |
| Health/Safety Improvement | Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement. | 25% | 0 | 0% |
| Level of Service | Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc. | 15% | 100 | 15% |
| Innovation and Automation Enhancements | Project will enhance achievement of LCA's goals for innovation and/or automation. | 5% | 100 | 5% |
| Community Impact | Project will benefit Community and/or external stakeholders. | 10% | 25 | 3% |
| Economic | | | | |
| Economic Development | Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region. | 10% | 0 | 0% |
| Risk Mitigation | Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resiliency. | 10% | 25 | 3% |

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| Additional Information |
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System Location UNC – OTHER WATER OR SEWER **Will this project require Land Rights?**

Project inception Date 1/2/2023 **Anticipated Project Completion Date** 12/31/2025

| | | | |
|--------------------|---------|---------------------|---------------------------------|
| Project No. | CON-A-7 | Project Name | NEW MUNIS IMPLEMENTATION |
|--------------------|---------|---------------------|---------------------------------|

Primary Prj Category Efficiency **Secondary Prj Category** System Improvement

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|----------------------------------|
| Project Drivers and Needs |
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|---|--|
| <input type="checkbox"/> New Facility | <input type="checkbox"/> End of Useful Life |
| <input type="checkbox"/> Existing Facility - Upgrade | <input type="checkbox"/> Obsolescence |
| <input type="checkbox"/> Scheduled Replacement | <input type="checkbox"/> Inadequate Capacity |
| <input checked="" type="checkbox"/> System Improvements | <input type="checkbox"/> Regulatory |

Notes

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| Implementation of more standardized business processes will improve efficiency and accounting processes. |
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| Capital Funds Requested for Project |
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|-------------------------------|------------------|--------------------------------|----------|
| LCA Staff | \$25,000 | Project Estimated Level | Planning |
| Land Acquisition | \$0 | Project Funding | LCA |
| Construction/Equipment | \$0 | Grant Eligibility | No |
| Professional Services | \$350,000 | Future Spending | \$0 |
| Contingencies | \$10,000 | | |
| Total | \$385,000 | | |

| | | |
|--------------------------------|------------------|----------|
| Current Budget 2024 | \$800,000 | |
| First Year Budget 2025 | \$385,000 | Planning |
| Second Year Budget 2026 | \$0 | None |
| Third Year Budget 2027 | \$0 | None |
| Fourth Year Budget 2028 | \$0 | None |
| Fifth Year Budget 2029 | \$0 | None |
| Total 2025-2029 | \$385,000 | |

**LEHIGH COUNTY AUTHORITY
ADMINISTRATION DIVISION-CAPITAL IMPROVEMENT PLAN
PROJECT DETAIL SHEET**

| | | | | | |
|----------------------|---------------------------------|--------------------|---------------|--------------------|---------|
| Project Name | MAIN OFFICE IMPROVEMENTS | | | | |
| Budget Area | Administration | Department | Capital Works | Project No. | CON-A-8 |
| Location | Suburban | Prj. Type | Vertical | Prj. Score | 36 |
| Prj Initiator | Klein | Prj Manager | Dorner | | |

Detailed Project Description

This project entails improvements to the LCA main operations center and other LCA buildings, and includes building additions, HVAC improvements, space optimization, building security, parking lot expansions, and ADA/Building Code improvements. In this Capital Plan are the following items: parking lot expansion at LCA main office, design and construction of a building addition or remote building procurement to house additional office space, renovations to capital works department area, and other LCA building improvements.

| Category | Definition | LCA Weight | Prj Score | Weighted Score |
|---|---|------------|-----------|----------------|
| Environmental | | | | |
| Regulatory Requirement | Project will address a local, state and/or federal regulatory requirement. | 25% | 0 | 0% |
| Social | | | | |
| Health/Safety Improvement | Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement. | 25% | 75 | 19% |
| Level of Service | Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc. | 15% | 75 | 11% |
| Innovation and Automation Enhancements | Project will enhance achievement of LCA's goals for innovation and/or automation. | 5% | 75 | 4% |
| Community Impact | Project will benefit Community and/or external stakeholders. | 10% | 25 | 3% |
| Economic | | | | |
| Economic Development | Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region. | 10% | 0 | 0% |
| Risk Mitigation | Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resiliency. | 10% | 0 | 0% |

Additional Information

System Location All Systems **Will this project require Land Rights?**

Project inception Date 1/2/2022 **Anticipated Project Completion Date** 12/31/2029

| | | | |
|--------------------|---------|---------------------|---------------------------------|
| Project No. | CON-A-8 | Project Name | MAIN OFFICE IMPROVEMENTS |
|--------------------|---------|---------------------|---------------------------------|

Primary Prj Category Efficiency **Secondary Prj Category** Planning

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|----------------------------------|
| Project Drivers and Needs |
|----------------------------------|

- | | |
|---|---|
| <input checked="" type="checkbox"/> New Facility | <input type="checkbox"/> End of Useful Life |
| <input checked="" type="checkbox"/> Existing Facility - Upgrade | <input type="checkbox"/> Obsolescence |
| <input type="checkbox"/> Scheduled Replacement | <input checked="" type="checkbox"/> Inadequate Capacity |
| <input type="checkbox"/> System Improvements | <input type="checkbox"/> Regulatory |

Notes

Significant staffing additions were made during the past few years due to increasing and projected workloads, and the existing office space is inadequate.

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| Capital Funds Requested for Project |
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|-------------------------------|--------------------|--------------------------------|----------|
| LCA Staff | \$50,000 | Project Estimated Level | Planning |
| Land Acquisition | \$0 | Project Funding | LCA |
| Construction/Equipment | \$1,600,000 | Grant Eligibility | No |
| Professional Services | \$200,000 | Future Spending | \$0 |
| Contingencies | \$100,000 | | |
| Total | \$1,950,000 | | |

| | | |
|--------------------------------|--------------------|--------------|
| Current Budget 2024 | \$550,000 | |
| First Year Budget 2025 | \$950,000 | Construction |
| Second Year Budget 2026 | \$250,000 | Construction |
| Third Year Budget 2027 | \$250,000 | Construction |
| Fourth Year Budget 2028 | \$250,000 | Construction |
| Fifth Year Budget 2029 | \$250,000 | Construction |
| Total 2025-2029 | \$1,950,000 | |