

LEHIGH COUNTY AUTHORITY ALLENTOWN, PA

DRAFT 5-YEAR CAPITAL PLAN
ADMINISTRATION
2021-2025
JANUARY 2020

5-YEAR CAPITAL PLAN 2021-2025

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2021-2025 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 Division	ns/Systems	
		Water	Wastewater
AD	Allentown Division	Х	Х
AWD	Arcadia West Division	X	X
BHD	Beverly Hills Division	X	
CLD	Central Lehigh Division	X	
CFD	Clear View Farms Division	Х	
ECD	Emmaus Consecutive Division	X	
HHD	Heidelberg Heights Division	Х	Х
LLRI-1	Little Lehigh Relief Interceptor, Phase 1		Х
LLRI-2	Little Lehigh Relief Interceptor, Phase 2		X
LTD	Lynn Township Division		Х
MCD	Mill Creek Division	X	
MND	Madison Park Division	X	
NWD	North Whitehall Division	Х	
PLD	Pine Lakes Division	Х	
SSD	Sands Spring Division		X
UMD	Upper Milford Division	Х	Х
UMCD	Upper Central Milford Division (Buss Acres)	Х	
WLI	Western Lehigh Interceptor		Х
WTD	Washington Township Division	Х	Х
WWD	Wynnewood Division		Х

Project Type

Project Type	Description
AO	Administrative Order
UW	Uncompleted Work ⁽¹⁾
S-7-MCI	Schedule-7 (Lease Required) Major Capital Improvement ⁽²⁾
LCA-MCI	LCA Developed Major Capital Improvement ⁽²⁾
COL	Change of Law ⁽³⁾
Regular	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.
- (3) Change of Law: In accordance with the Change of Law Memorandum of Understanding

Project Funding

Project Funding	Description			
LCA Funded by LCA				
100% Reimb	All costs are 100% reimbursable by fees charged			
Fees & LCA	Costs partly recovered through fees charged and partly funded by LCA			
Allentown	Funded by the City of Allentown			
CCRC	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
Regulatory	Required to meet Regulatory requirements
New Cust	New Customers
CA/OS	Concession Lease/Operating Standards
Master Plan	Master Plan
AM - Low	Asset Management - Low Risk
AM - Med	Asset Management - Medium Risk
AM - High	Asset Management - High Risk
AM - Varies	Asset Management - Varies ⁽¹⁾
Efficiency	Efficiency
Sys Imp	System Improvement
Rev Opprt	Revenue Opportunity
Planning	Planning
N/A	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					
Α	Annual Project, no approvals required					
S	Study/Planning Phase					
D	Design Phase					
C Construction/Implementation Phase						
Ε	Entire Project					
V	Various Phases					
Р	Pending Board approval					

ADMINISTRATION 5-YEAR CAPITAL PLAN 2021-2025

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 2020, the total costs have been apportioned 56% to the Suburban Division and 44% to the Allentown Division.

Project SD-A-1 is an Information Technology (IT) project to upgrade the Suburban SCADA capabilities. Water fund operating reserves will be used to finance the projects with partial recovery through charge-backs to Authority wastewaterfunds.

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.

Funding Sources for each project are shown below.

ADMINISTRATION	<u>2021</u>	2022	2023	2024	<u>2025</u>	TOTAL
Project Costs	\$500,000	<u>\$450,000</u>	<u>\$425,000</u>	\$375,000	\$275,000	\$2,025,000
Funding Sources:						
Operating/Capital Reserves	\$500,000	\$450,000	\$425,000	\$375,000	\$275,000	\$2,025,000
New Borrowing	1	1	1	1	1	ı
Total Funding	<u>\$500,000</u>	<u>\$450,000</u>	<u>\$425,000</u>	<u>\$375,000</u>	<u>2375,000</u>	\$2,025,000



LEHIGH COUNTY AUTHORITY ADMINISTRATION 2021-2025 CAPITAL PROGRAM

		0	Approvals	P	Plan		This Capital Program							Future	Total
Project #	Name or Title of Proposal	Prj. ategory	Stage (1)		otal Cost	2020 Budget Approved	2021 Year 1	2022 Year 2	2023 Year 3	2024 Year 4	2025 Year 5	2021-2025 Total	Project Cost (2)	Project Cost (2)	Project Cost
	Operating/Capital Reserve Funds														
SD-A-1	SCADA Programming, Hardware Upgrades, Software & Training	AM - Varies	Α	\$	900,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,00	\$ 150,0	0 \$ 750,000			\$900,000
	Computer System Hardware & Software Upgrades	AM - High	Α	\$	390,000	\$ 140,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,00	\$ 50,0	0 \$ 250,000			\$390,000
CON-A-2*	GIS Upgrades & Application Development	Efficiency	V	\$	350,000	\$ 50,000	\$ 75,000	\$ 50,000	\$ 50,000	\$ 75,00	\$ 50,0	0 \$ 300,000			\$350,000
	Information Technology Master Plan Update	Planning	P	\$	475,000	\$ 125,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 50,00	\$ -	\$ 350,000			\$475,000
CON-A-4*	Document Management	Efficiency	V	\$	275,000	\$ 200,000	\$ 75,000	\$ -	\$ -	\$ -	\$ -	\$ 75,000			\$275,000
CON-A-5*	Disaster Recovery/Security Upgrades	Sys Imp	Α	\$	150,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 50,000	\$ 25,00) \$ -	\$ 125,000			\$150,000
CON-A-6*	CMMS Upgrades	Sys Imp	A	\$	200,000	\$ 25,000	\$ 25,000	\$ 75,000	\$ 25,000	\$ 25,00	\$ 25,0	0 \$ 175,000			\$200,000
	GRAND TOTAL			\$ 2,	,740,000	\$ 715,000	\$ 500,000	\$ 450,000	\$ 425,000	\$ 375,00	\$ 275,0	0 \$ 2,025,000	\$ -	\$ -	\$ 2,740,000

^(*) 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

Project Name	SUPERVISOR	SUPERVISORY CONTROL & DATA ACQUISTION (SCADA) PROGRAMMING, HARDWARE UPGRADES, SOFTWARE & TRAINING									
Budget Area	Administration	Administration Department IT Date 12/27/2019 Project No.									
Location	Various LCA Di	visions located in n	nultiple municipalities	Prj. Type	Regular	Prj. Funding	LCA				
Prj. Category	Primary	AM - Varies	Secondary	Efficiency	Prep	arer	PB				

	Purpose of Expenditure (check all that apply)							
	New Facility Correct Known or Potential Safety Issue							
Х	Existing Facility - Rehabilitation/Upgrade	X	Equipment Obsolete					
	Scheduled Replacement		Comply with Regulatory Requirements					
	Improved Service	X	Equipment/Infrastructure at End of Useful Life					
	Study	Х	Other (explain): Improve Operational Efficiencies					

Additional Information					
Expected Useful Life (Years)	5	Project inception date			
Approx. No. of Customers Benefitted	*Varies	Project inception date	2010		
Is this System part of a Common User Rate?	Yes	Anticipated Project completion date	2035		
Will the Project Require Obtaining Land Rights	No	Anticipated Project completion date			

^{*}Dependent upon the system

Detailed Project Description

This annual on-going project includes both programming and hardware enhancements to the SCADA system to provide reliable telemetry and effective/proactive/flexible control of our facilities. It also includes an upgrade to SCADA & Telog communications and radio replacement of Telco lines to reduce monthly Telco charges to resolve ongoing communication problems with critical facilities. Training on the Historian software package is also included.

Project Drivers and Needs to be Met by the Project

The SCADA system currently provides real-time data and control for CLD water facilities and WLI related wastewater facilities and must be updated. The Telog system provides real-time data (no control) for satellite water and wastewater systems. Both are necessary to allow efficient operation of the water and wastewater system facilities.

Project Status - Describe what work, if any has been completed or underway for this project

SCADA upgrades have been completed at Pine Lakes and Crestwood water systems in 2017 and 2018.

Annual Cost Impact							
Operating - Increase/(Decrease)		N/A					
Debt Service	\$		-				
Net	\$		-				

Borrowing Information				
Interest Rate	5.5000%			
Term (Years)	30			

Revenue Impact	
Gain/(Loss) in Annual Revenue	N/A
Assessment, Contribution in Aid-of-Construction	

Explanation if Necessary

Project No.	SD-A-1	
Project Name	SUPERVISORY CONT	FROL & DATA ACQUISTION (SCADA) PROGRAMMING, HARDWARE UPGRADES, SOFTWARE & TRAINING

Prior Project Cost		
Estimated Project Costs:	2021	-2025
LCA Staff	\$	100,000
Land Acquisition	\$	-
Construction/Equipment	\$	650,000
Professional Services	\$	100,000
Other	\$	-
Contingencies	\$	50,000
Total Project Cost	\$	900,000

	Project Estimate Level
	Conceptual Estimate
	Preliminary Estimate
)	Budget Estimate
	Definitive Estimate

Requested in this	ė	750,000
Capital Program	Ą	750,000

		Need		Phase of Work
	2020 Budget	\$	150,000	
1st Year	2021	\$	150,000	
2nd Year	2022	\$	150,000	
3rd Year	2023	\$	150,000	
4th Year	2024	\$	150,000	
5th Year	2025	\$	150,000	

Project Name	COMPUTER SYSTEM HARDWARE & SOFTWARE UPGRADES									
Budget Area	Administration	dministration Department IT Date 12/27/2019 Project No. CON-A-1								
Location	Allen	town & Suburban I	Divisions	Prj. Type	Regular	Prj. Funding	LCA			
Prj. Category	Primary AM - High Secondary Efficiency Preparer P				PB					

Purpose of Expenditure (check all that apply)					
New Facility		Correct Known or Potential Safety Issue			
Existing Facility - Rehabilitation/Upgrade		Equipment Obsolete			
Scheduled Replacement		Comply with Regulatory Requirements			
Improved Service	Х	Equipment/Infrastructure at End of Useful Life			
Study		Other (explain):			

Additional Information					
Expected Useful Life (Years)	6	Project inception date			
Approx. No. of Customers Benefitted	N/A	Project inception date			
Is this System part of a Common User Rate?	N/A	Anticipated Project completion date Ongoing			
Will the Project Require Obtaining Land Rights	No	Anticipated Project completion date			

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

Project Drivers and Needs to be Met by the Project							
Improved efficiencies will assist employees in becoming more productive.							

Project Status - Describe what work, if any has been completed or underway for this project							
Hardware replaced annually as needed. Software upgraded annually as needed.							

Annual Cost Impact						
Operating - Increase/(Decrease)		N/A				
Debt Service	\$		-			
Net	\$		-			

Revenue Impact					
Gain/(Loss) in Annual Revenue	N/A				
Assessment, Contribution	N/A				
in Aid-of-Construction	N/A				
Other					

Borrowing Information					
5.5000%					
30					

Explanation if Necessary

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

Prior Project Cost			
Estimated Project Costs: 2021-2025			
LCA Staff	\$	40,000	
Land Acquisition	\$	-	
Construction/Equipment	\$	300,000	
Professional Services	\$	20,000	
Other	\$	-	
Contingencies	\$	30,000	
Total Project Cost	\$	390,000	

	Project Estimate Level					
	Conceptual Estimate					
	Preliminary Estimate					
X	Budget Estimate					
	Definitive Estimate					

Requested in this	ċ	250,000
Capital Program	ş	250,000

		Need	Phase of Work
20	020 Budget	\$ 140,000	
1st Year	2021	\$ 50,000	
2nd Year	2022	\$ 50,000	
3rd Year	2023	\$ 50,000	
4th Year	2024	\$ 50,000	
5th Year	2025	\$ 50,000	

Project Name	GEOGRAPHIC INFORMATION SYSTEM (GIS) UPGRADES & APPLICATION DEVELOPMENT							
Budget Area	Administration	Department	IT	Date	12/27/2019	Project No.	CON-A-2	
Location	Allen	town & Suburban [Divisions	Prj. Type	Regular	Prj. Funding	LCA	
Prj. Category	Primary	Efficiency	Secondary	Sys Imp	Prep	PB		

	Purpose of Expenditure (check all that apply)						
	New Facility Correct Known or Potential Safety Issue						
	Existing Facility - Rehabilitation/Upgrade		Equipment Obsolete				
	Scheduled Replacement		Comply with Regulatory Requirements				
Х	X Improved Service		Equipment/Infrastructure at End of Useful Life				
	Study		Other (explain):				

Additional Information						
Expected Useful Life (Years)	Project inception date					
Approx. No. of Customers Benefitted	N/A	Project inception date	1991			
Is this System part of a Common User Rate?	N/A	Anticipated Project completion date	Ongoing			
Will the Project Require Obtaining Land Rights	No	Anticipated Project completion date				

Detailed Project Description

This project will continue to support the development of the Authority's GIS system. The project scope includes implementation of ESRI's event server which will allow SCADA integration with the GIS system, replacement of the existing GIS network/framework which will allow advanced hydraulic modeling and outage solutions, upgrades to the web and mobile GIS platforms to enhance usability and functionality for internal staff, completion and adoption of a GIS Strategic Plan to assist with the utilization of all software and integrations, and enhanced security updates to all GIS systems.

Project Drivers and Needs to be Met by the Project

Adoption of an integrated and complete GIS system is critical for asset management and facility management. Advancements in geospatial technologies require updates on an annual basis. As part of LCA's 2020 Goals, a complete GIS system will help support the implementation of a CMMS system. Applications covered under this project include easement mapping and access, as-built mapping and access, and various internal project based applications to support all Departments.

Project Status - Describe what work, if any has been completed or underway for this project

Transition to the new utility network is currently underway. The adoption of ESRI's event server is underway and being configured with LCA's CMMS system. Multiple applications to support the operations of LCA are also under development.

Annual Cost Impact								
Operating - Increase/(Decrease)		N/A						
Debt Service	\$		-					
Net	\$		-					

Revenue Impact	
Gain/(Loss) in Annual Revenue	N/A
Assessment, Contribution	N/A
in Aid-of-Construction	IN/A
Other	

Borrowing Information							
Interest Rate	5.5000%						
Term (Years)	30						

Explanation if Necessary					

Project No.	CON-A-2	
Project Name	GEOGRAPHIC INFO	RMATION SYSTEM (GIS) UPGRADES & APPLICATION DEVELOPMENT

Prior Project Cost		
Estimated Project Costs:	2021	-2025
LCA Staff	\$	50,000
Land Acquisition		
Construction/Equipment	\$	250,000
Professional Services	\$	25,000
Other		
Contingencies	\$	25,000
Total Project Cost	\$	350,000

	Project Estimate Level						
	Conceptual Estimate						
	Preliminary Estimate						
х	x Budget Estimate						
	Definitive Estimate						

Requested in this Capital Program	4	300,000
Capital Program	Ģ	300,000

	Need		Need	Phase of Work
	2020 Budget	\$	50,000	
1st Year	2021	\$	75,000	
2nd Year	2022	\$	50,000	
3rd Year	2023	\$	50,000	
4th Year	2024	\$	75,000	
5th Year	2025	\$	50,000	

Project Name	INFORMATION TECHNOLOGY MASTER PLAN UPDATE								
Budget Area	Administration	Department	IT	Date	12/27/2019	Project No.	CON-A-3		
Location	Allen	town & Suburban [Divisions	Prj. Type	Regular	Prj. Funding	LCA		
Prj. Category	Primary	Planning	Secondary	Sys Imp	Preparer		PB		

	Purpose of Expenditure (check all that apply)						
	New Facility	Correct Known or Potential Safety Issue					
	Existing Facility - Rehabilitation/Upgrade		Equipment Obsolete				
	Scheduled Replacement		Comply with Regulatory Requirements				
	Improved Service		Equipment/Infrastructure at End of Useful Life				
Х	Study		Other (explain):				

Additional Information							
Expected Useful Life (Years)	Project inception date						
Approx. No. of Customers Benefitted	N/A	Project inception date	2016				
Is this System part of a Common User Rate?	N/A	Anticipated Project completion date	Ongoing				
Will the Project Require Obtaining Land Rights	No	Anticipated Project completion date					

Detailed Project Description

This project will provide the guidance for update and implementation of the technology systems currently residing (or new systems) for LCA. It contains funding for investigation, purchase, implementation and support.

Project Drivers and Needs to be Met by the Project

The 2019 update identified needs in both technology and software support for LCA's employee base. Moving forward IT and supporting technology in a secure fashion is paramount. This project will support those needs.

Project Status - Describe what work, if any has been completed or underway for this project

IT Master Plan began in 2019 and will be finished in 2020.

Annual Cost Impa	ct		
Operating - Increase/(Decrease)		N/A	
Debt Service	\$		-
Net	\$		-

perating - Increase/(Decrease)	ing - Increase/(Decrease) N/A		Gain/(Loss) in Annual Revenue	N/A
ebt Service		-	Assessment, Contribution	N/A
et		-	in Aid-of-Construction	IN/A
			Other	
Borrowing Information			<u></u>	

Revenue Impact

Borrowing	g Information
Interest Rate	5.5000%
Term (Years)	30

Explanation if Necessary	

Project No.	CON-A-3	
Project Name	INFORMATION TECH	HNOLOGY MASTER PLAN UPDATE

Prior Project Cost		
Estimated Project Costs:	2021	-2025
LCA Staff	\$	225,000
Land Acquisition	\$	-
Construction/Equipment	\$	50,000
Professional Services	\$	150,000
Other	\$	-
Contingencies	\$	50,000
Total Project Cost	\$	475,000

	Project Estimate Level								
	Conceptual Estimate								
	Preliminary Estimate								
х	Budget Estimate								
	Definitive Estimate								

Requested in this	٠	350,000
Capital Program	Þ	330,000

	Need		Need	Phase of Work
	2020 Budget	\$	125,000	
1st Year	2021	\$	100,000	
2nd Year	2022	\$	100,000	
3rd Year	2023	\$	100,000	
4th Year	2024	\$	50,000	
5th Year	2025	\$	-	

Project Name	DOCUMENT MANAGEMENT								
Budget Area	Administration	Administration Department IT Date 12/27/2019 Project No. CON-A-4							
Location	Allen	town & Suburban I	Divisons	Prj. Type	Regular	Prj. Funding	LCA		
Prj. Category	Primary	Efficiency	Secondary	Sys Imp	Prep	PB			

Purpose of Expenditure (check all that apply)					
New Facility		Correct Known or Potential Safety Issue			
Existing Facility - Rehabilitation/Upgrade		Equipment Obsolete			
Scheduled Replacement		Comply with Regulatory Requirements			
Improved Service		Equipment/Infrastructure at End of Useful Life			
Study	Х	Other (explain): Increase Efficiencies			

Additional Information				
Expected Useful Life (Years) 10 Project inception date				
Approx. No. of Customers Benefitted	N/A	Project inception date	2008	
Is this System part of a Common User Rate? N/A Anticipated Project completion date		2022		
Will the Project Require Obtaining Land Rights	No	Anticipated Project completion date		

Detailed Project Description				
This project provides for an Electronic Document Management System (EDMS) to store, search and share documents. This project does not plan				
for the imaging of existing paper documents.				

Project Drivers and Needs to be Met by the Project

Readily available access to plans, reports and past correspondence will reduce research time. Storage space, files and cabinets for maintaining hard-copy documents will be minimized or eliminated. Digital, cross-referenced documents will improve accessibility and ease workflow.

Project Stat	us - Describ	e what work, if any has been completed or underway for this project
		10010

Preliminary stages of this project began in 2018 and 2019.

Annual Cost Impact				
Operating - Increase/(Decrease)		N/A		
Debt Service	\$		-	
Net	\$		-	

erating - Increase/(Decrease)	N/A	Gain/(Loss) in Annual Revenue	П
bt Service	\$ -	Assessment, Contribution	T
et	\$ -	in Aid-of-Construction	
		Other	
Borrowing Information			

Revenue Impact

Borrowing Information				
Interest Rate	5.5000%			
Term (Years)	30			

Explanation if Necessary	

Project No.	CON-A-4	
Project Name		GEMENT

Prior Project Cost		
Estimated Project Costs:	2021	-2025
LCA Staff	\$	125,000
Land Acquisition	\$	-
Construction/Equipment	\$	30,000
Professional Services	\$	100,000
Other	\$	-
Contingencies	\$	20,000
Total Project Cost	\$	275,000

	Project Estimate Level						
	Conceptual Estimate						
	Preliminary Estimate						
х	Budget Estimate						
	Definitive Estimate						

Requested in this	ė	75.000
Capital Program	Ģ	75,000

		Need	Phase of Work
	2020 Budget	\$ 200,000	
1st Year	2021	\$ 75,000	
2nd Year	2022	\$ -	
3rd Year	2023	\$ -	
4th Year	2024	\$ -	
5th Year	2025	\$ -	

Project Name	DISASTER RECOVERY/SECURITY UPGRADES							
Budget Area	Administration	Administration Department IT Date 12/27/2019 Project No. CON-A-5						
Location	Allentown & Suburban Divisons			Prj. Type	Regular	Prj. Funding	LCA	
Prj. Category	Primary	Sys Imp	Secondary	Efficiency	· · · ·		CWM	

	Purpose of Expenditure (check all that apply)				
	New Facility X Correct Known or Potential Safety Issue				
Х	Existing Facility - Rehabilitation/Upgrade	Equipment Obsolete			
	Scheduled Replacement	d Replacement Comply with Regulatory Requirements			
Х	Improved Service	ice Equipment/Infrastructure at End of Useful Life			
	Study	Other (explain):			

Additional Information				
Expected Useful Life (Years) 5 Project inception date				
Approx. No. of Customers Benefitted	N/A	Project inception date	2018	
Is this System part of a Common User Rate?	N/A	Anticipated Project completion date	Ongoing	
Will the Project Require Obtaining Land Rights	NO	Anticipated Project completion date		

Detailed Project Description				
This project will cover several areas to increase or add security, as well as improve our disaster recovery options for catastrophic failure.				

Project Drivers and Needs to be Met by the Project

This project will provide on-site back up as well as unlimited cloud storage of all back-ups. It will also encompass spam filters, real time anti virus scanning, as well as Exchange backup. As part of the disaster recovery, a large room scaled UPS system to ensure server uptime will be incorporated.

Project Status - Describe what work, if any has been completed or underway for this project						
Project commenced in 2019.	roject commenced in 2019.					

Annual Cost Impact						
Operating - Increase/(Decrease)		N/A				
Debt Service	\$		-			
Net	\$		-			

Revenue Impact				
Gain/(Loss) in Annual Revenue	N/A			
Assessment, Contribution	N/A			
in Aid-of-Construction	IN/A			
Other				

Borrowing Information				
Interest Rate	5.5000%			
Term (Years)	30			

Explanation if Necessary			

Project No.	CON-A-5	
Project Name	DISASTER RECOVER	y/SECURITY UPGRADES

Prior Project Cost		
Estimated Project Costs:	2021-	2025
LCA Staff	\$	25,000
Land Acquisition	\$	-
Construction/Equipment	\$	50,000
Professional Services	\$	25,000
Other	\$	-
Contingencies	\$	50,000
Total Project Cost	\$	150,000

	Project Estimate Level			
	Conceptual Estimate			
	Preliminary Estimate			
х	Budget Estimate			
	Definitive Estimate			

Requested in this	'n	125.000
Capital Program	Ą	123,000

	Need			Phase of Work
202	20 Budget	\$	25,000	
1st Year	2021	\$	25,000	
2nd Year	2022	\$	25,000	
3rd Year	2023	\$	50,000	
4th Year	2024	\$	25,000	
5th Year	2025	\$	-	

Project Name	CMMS UPGRADES							
Budget Area	Administration	Department	12/27/2019	Project No.	CON-A-6			
Location	Allen	town & Suburban I	Divisons	Prj. Type	Regular	Prj. Funding	LCA	
Prj. Category	Category Primary Sys Imp Secondary		Efficiency	Prep	arer	CWM		

	Purpose of Expenditure (check all that apply)				
	New Facility Correct Known or Potential Safety Issue				
	Existing Facility - Rehabilitation/Upgrade Equipment Obsolete		Equipment Obsolete		
Х	K Scheduled Replacement Comply with Regulatory Requirements		Comply with Regulatory Requirements		
Х	Improved Service X Equipment/Infrastructure at End of Useful Life		Equipment/Infrastructure at End of Useful Life		
	Study Other (explain):				

Additional Information				
Expected Useful Life (Years) 5 Project inception date				
Approx. No. of Customers Benefitted	Project inception date	2017		
Is this System part of a Common User Rate?	is System part of a Common User Rate? N/A		2025	
Vill the Project Require Obtaining Land Rights NO Anticipated Project completion date				

Detailed Project Description

This project will upgrade multiple modules of the existing CMMS application, Cityworks. The modules include implementation of a complete inventory system, API integrations with the GIS system, development of an asset strategy plan, site upgrades, and additional security enhancements. This project will also provide more opportunities for automation of vertical asset management through the use of ESRI's Geoevent server and SCADA information.

Project Drivers and Needs to be Met by the Project

As part of LCA's 2020 Goals, this project will support the need for additional integrations, automation, and security to increase availability and reliability of the software. The project will also help initiate the development and adoption of an asset strategy through the identification and interpretation of multiple data integrations.

Project Status - Describe what work, if any has been completed or underway for this project

This project commenced in 2019 with development of the existing Cityworks system and adoption of preventive maintenance practices in the City and Suburban Division. Multiple integrations have been completed; MUNIS integration, WINCAN integration, Customer Records Integration.

Annual Cost Impact				
Operating - Increase/(Decrease)		N/A		
Debt Service	\$		-	
Net	\$		-	

Revenue Impact	
Gain/(Loss) in Annual Revenue	N/A
Assessment, Contribution	N/A
in Aid-of-Construction	IN/A
Other	

Borrowing Information				
Interest Rate	5.5000%			
Term (Years)	30			

Explanation if Necessary	

Prior Project Cost		
Estimated Project Costs:	2021	2025
LCA Staff	\$	25,000
Land Acquisition	\$	-
Construction/Equipment	\$	100,000
Professional Services	\$	50,000
Other	\$	-
Contingencies	\$	25,000
Total Project Cost	\$	200,000

Project Estimate Level					
	Conceptual Estimate				
	Preliminary Estimate				
х	Budget Estimate				
	Definitive Estimate				

Requested in this	ć	175,000
Capital Program	Ģ	

		Need		Phase of Work
	2020 Budget	\$ 25,0	00	
1st Year	2021	\$ 25,0	00	
2nd Year	2022	\$ 75,0	00	
3rd Year	2023	\$ 25,0	00	
4th Year	2024	\$ 25,0	00	
5th Year	2025	\$ 25,0	00	