



**GARDINER CITY COUNCIL
AGENDA ITEM INFORMATION SHEET**



Meeting Date	12/20/2023	Department	City Manager
Agenda Item	4o. Advise and Consent for Phase 2 of the Wastewater plant upgrades		
Est. Cost	\$2.9 million		

Background Information

At the last meeting Joe Ducharme from Hoyle Tanner and Director Clark made a presentation on Phase 2 of the Waste Water treatment plant upgrades that are necessary. We are asking for consent to move forward with the project and consent to apply for funding through USDA-Rural Development loans to fund the project. With USDA-RD for phase 1 we received a 15% grant which it looks like we will receive again. We will also be applying for offsetting grant funding through various federal agencies. One thing to remember is that our most recent rate increase to the minimum was to help fund this large project.

Requested Action	"I move to approve moving forward with Phase 2 of the WasteWater treatment plant upgrades and approve applying for funding through the USDA-Rural Development funding program."
City Manager and/or Finance Review	City Manager approves this action
Council Vote/ Action Taken	
Departmental Follow-Up	

City Clerk Use Only	1 st Reading _____	Advertised _____	EFFECTIVE DATE _____
	2 nd Reading _____	Advertised _____ w/in 15 Days	
	Final to Dept _____	Updated Book _____	Online _____

Gardiner WWTF Phase 2 Improvements

City of Gardiner, Maine
Presentation to City Council



By: Joe Ducharme, Jr., PE

December 6, 2023

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Planning for the Future

WWTF History

- Constructed 1980-82
- Limited Improvements 1987 / 2005 / CSO
- Phase 1 Upgrade – 2018-2022
- Phase 2 Upgrade – 2024-2025



Kennebec River

Phase 1 Timeline

PHASE 1 CONSTRUCTION STARTS
Bidding/Phase 1
Construction RBCs, WWTF
Generator, Headworks

20
21

Design of WWTF
Improvements

20
19

COVID!!!!!!

PHASE 1 CONSTRUCTION COMPLETE
Improved Process;
Meeting Permit

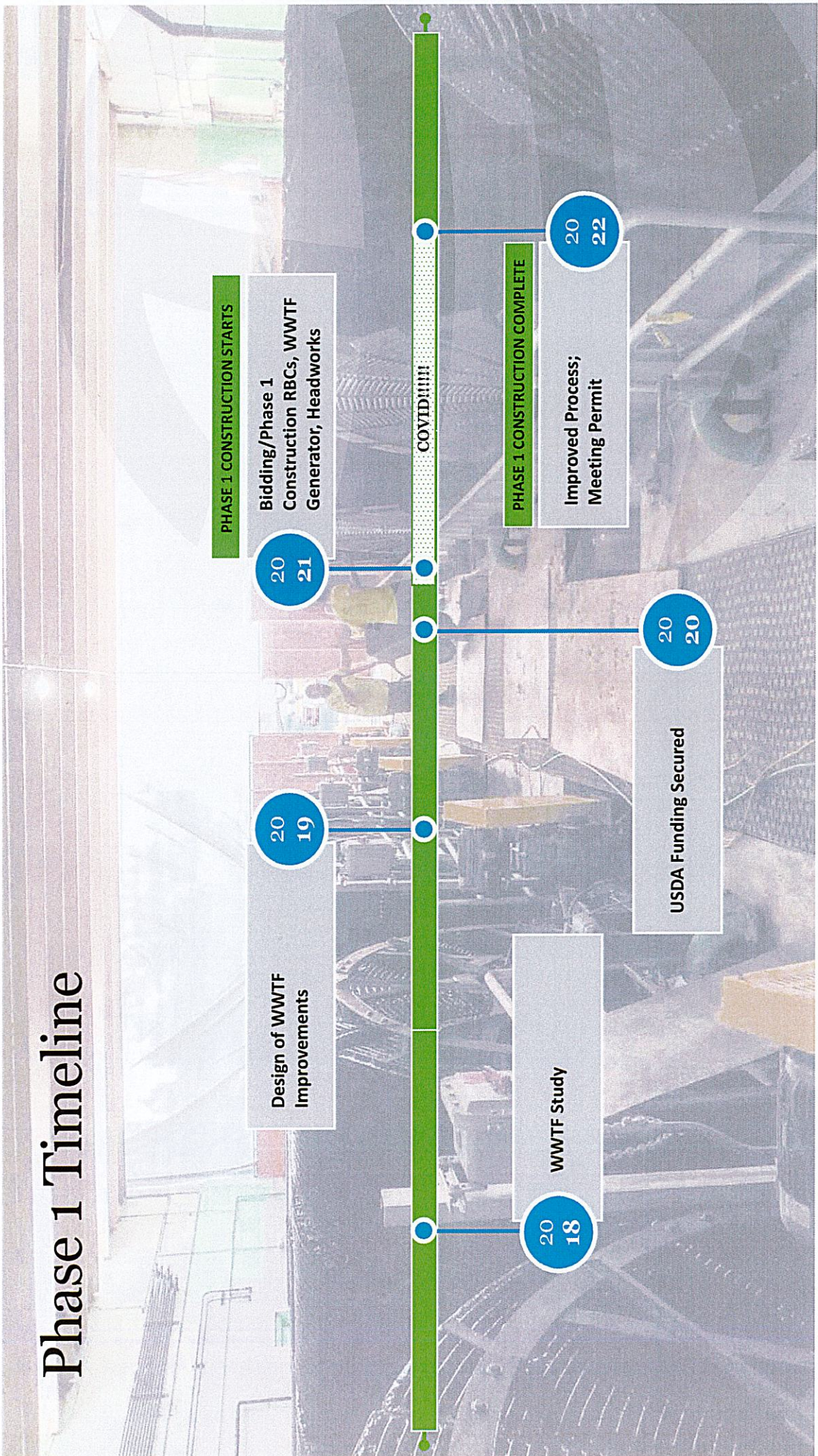
20
22

WWTF Study

20
18

USDA Funding Secured

20
20

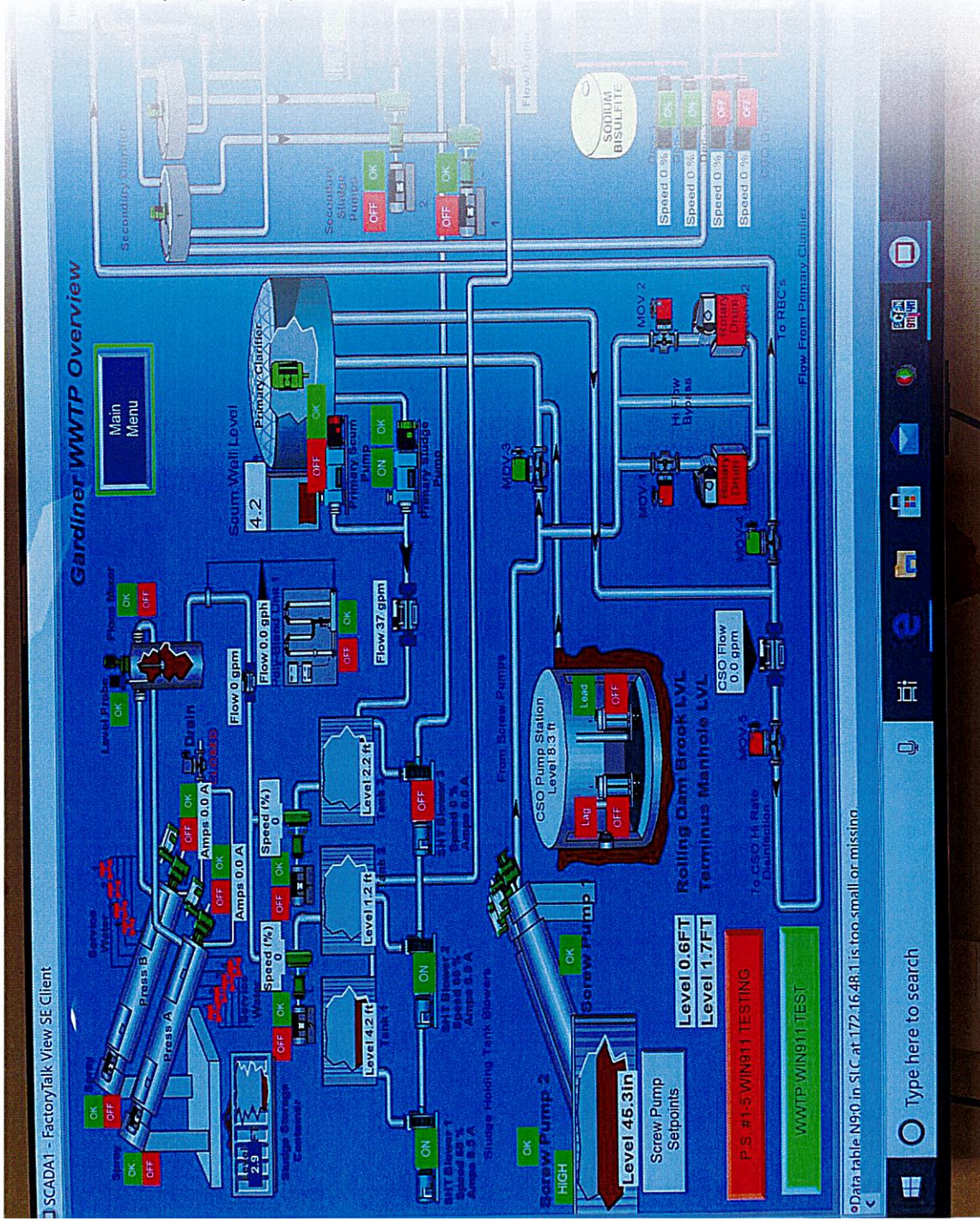




Phase 2 Improvements

- Electrical Instrumentation & Controls (SCADA)
- MAPS Generator & Motor Control Center
- Blower Upgrades
- Chemical Feed System Upgrade
- Roof Repairs
- New Boiler
- CCTV Sewer Maintenance Trailer
- Pump Station 1 thru 5 Electrical Improvements

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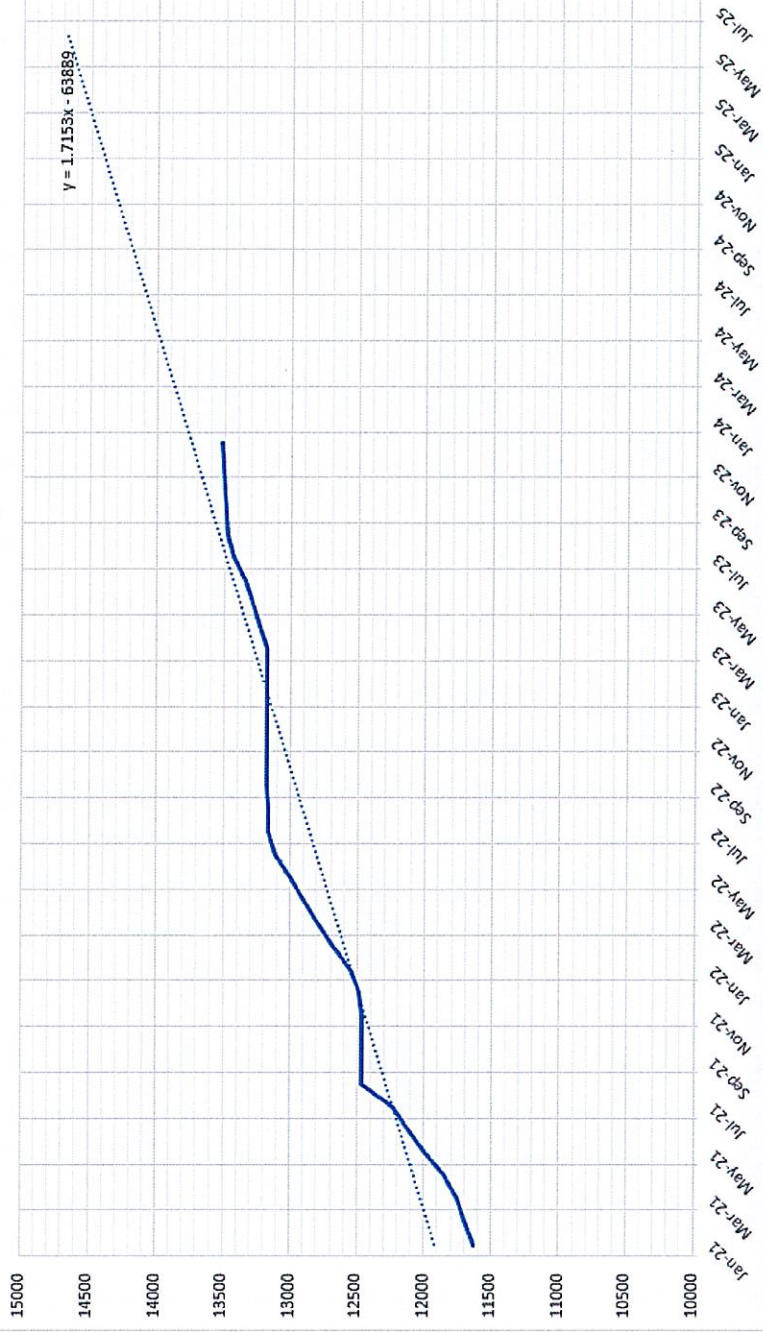


Why do Phase 2 Now?



- Obsolete Equipment
- Operator Safety
- System Reliability
- Energy Efficiency
- Permit Compliance
- Inflation

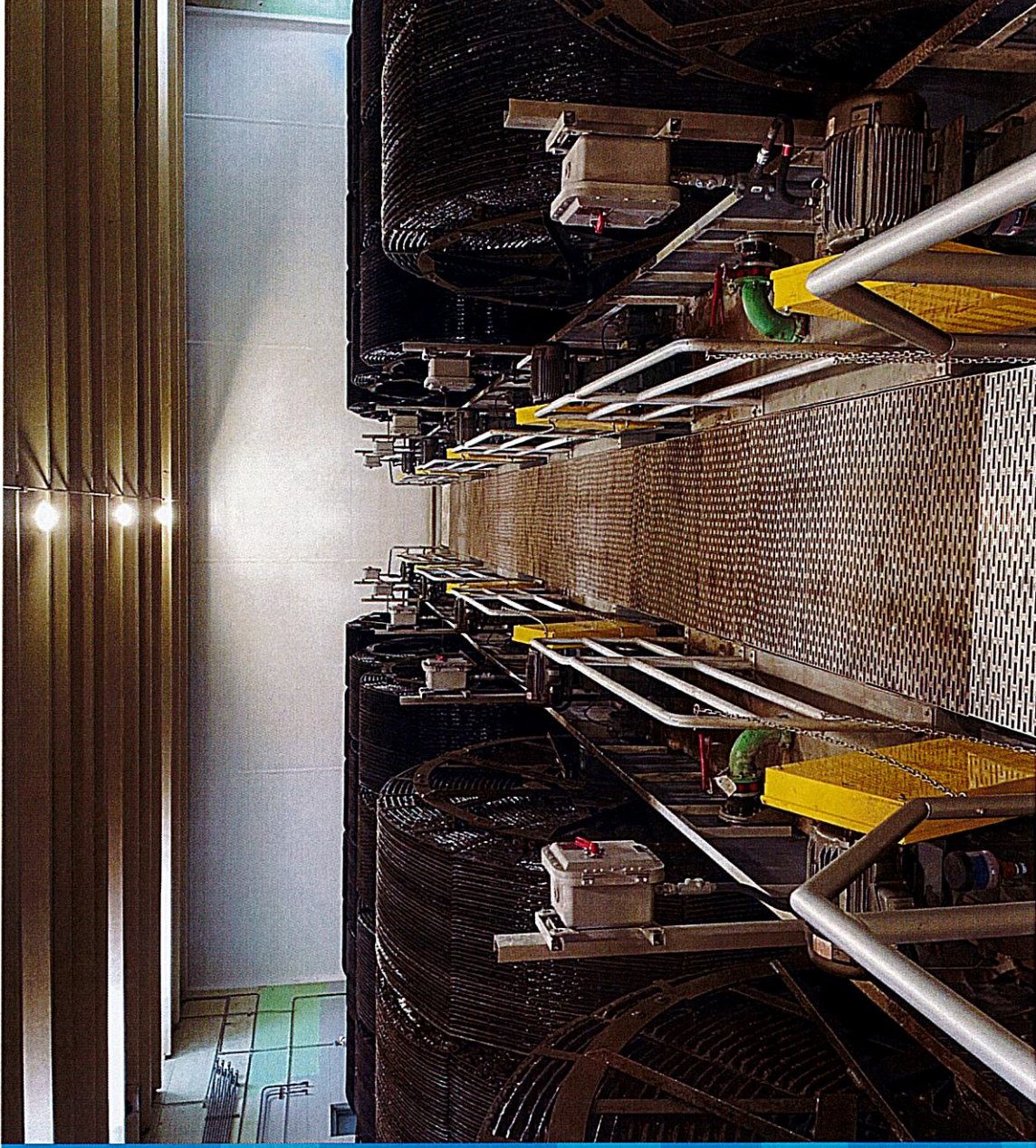
ENR CCI Jan 2021-July 2025 Projection



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Longevity of the Improvements

- Process Reliability Secured
- Major Components Last from 10-20 Years or more
- Routine Maintenance Extends Longevity
- Best Approach is to Maintain What You Have & Plan for the Future



Phase 2 Projected Cost

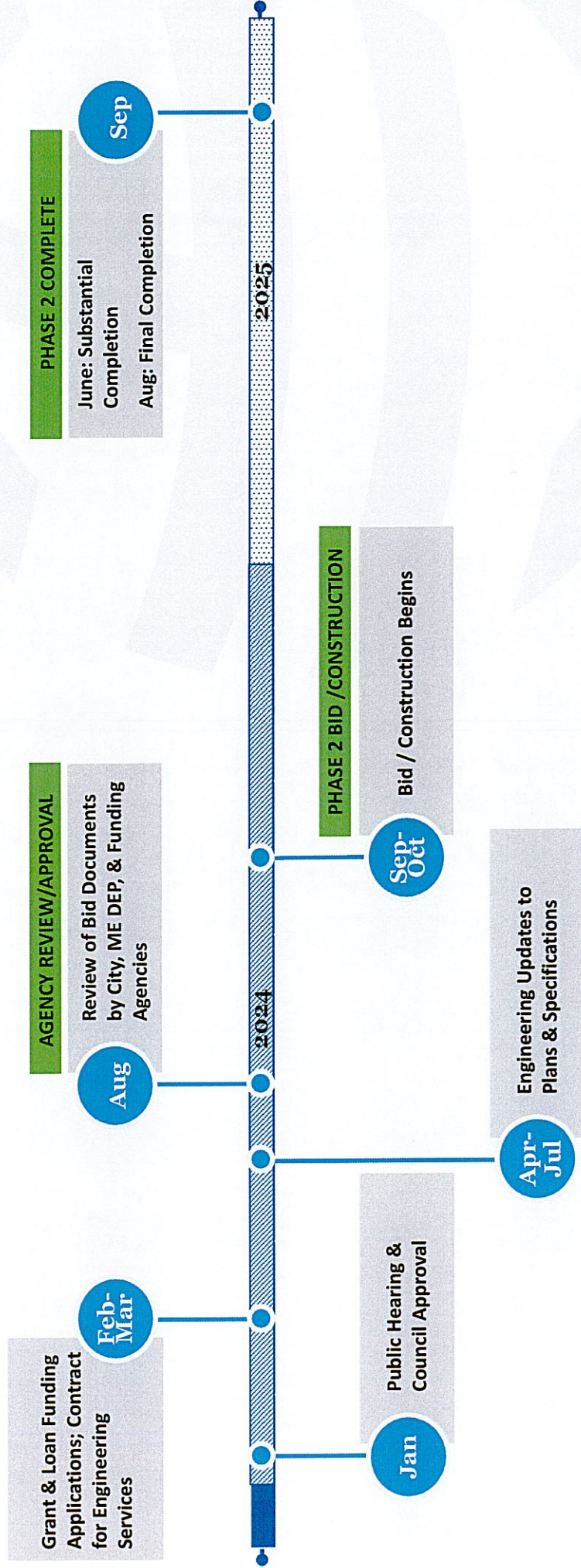


Improvement	Cost
Electrical, Instrumentation & Controls (SCADA)	\$0.875M
MAPS Generator & Motor Control Center	\$0.550M
Blower Upgrades / Chemical Feed System Upgrades	\$0.625M
Roof Repairs / New Boilers / CCTV Sewer Maintenance Trailer	\$0.300 M
Pump Station One thru Five Electrical/Motors/Controls (SCADA)	\$0.550 M
Total	\$2.900 M

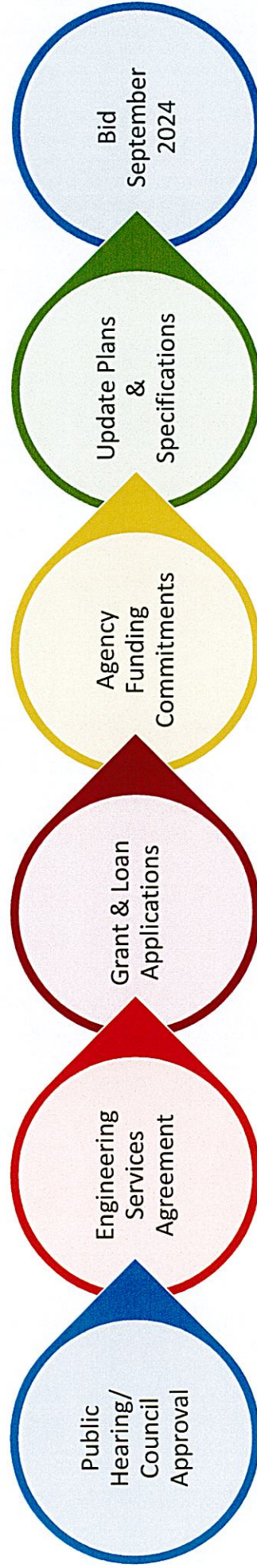


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Phase 2 Timeline



Next Steps



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Questions

