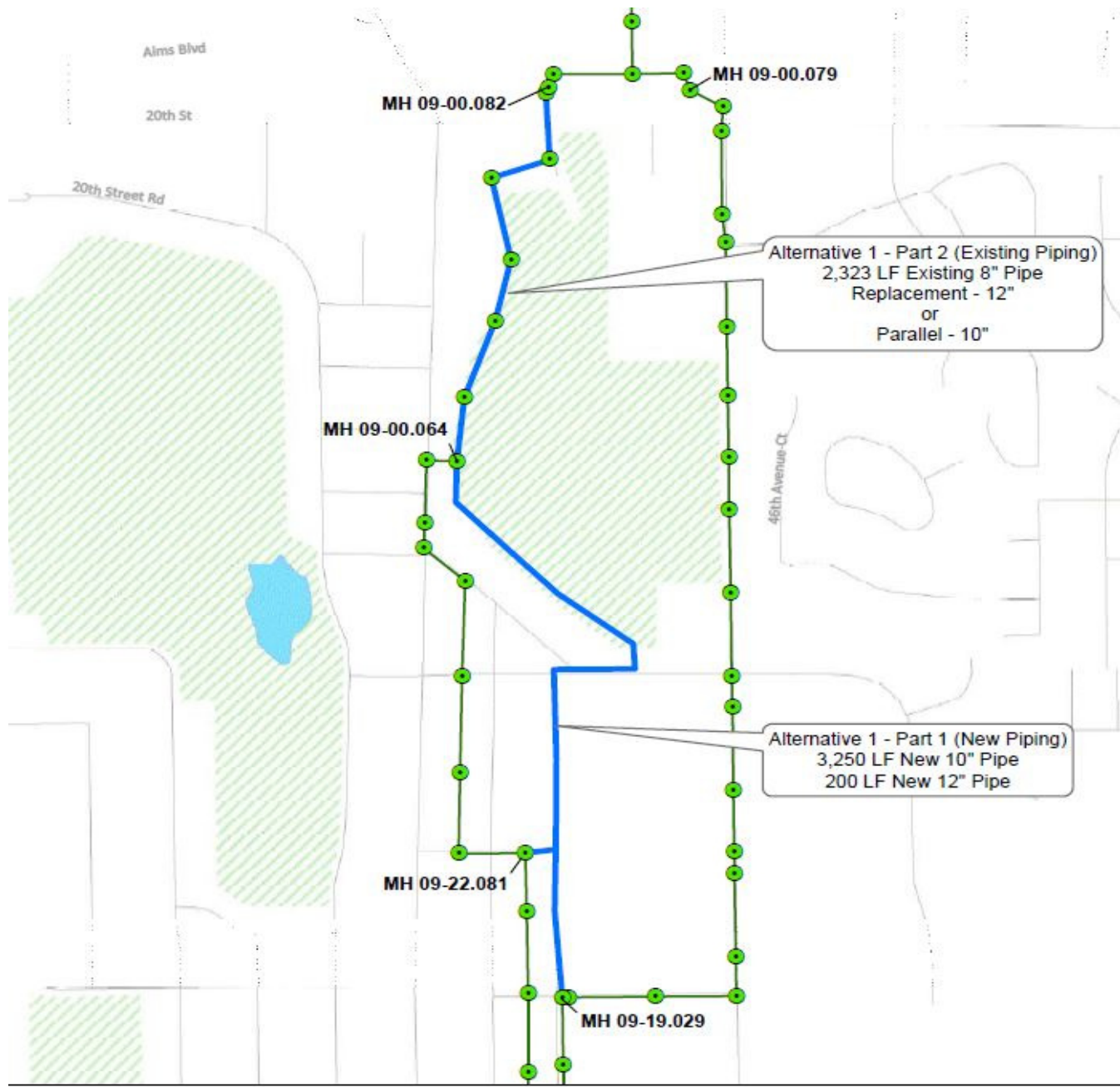




Fund 413

Sewer Capital Replacement





Lift Station 15 (Hope Springs) Replacement

Project Number:	413New8	Budget Year:	2024
Division:	Sewer Capital Projects	Council Priority:	Housing for All
Project Type:	Sewer Replacement Collection	Regions:	
Fund:	Sewer Capital Replacement	Location:	32nd St and Harbor Lane
Project Manager:	Unassigned	Budget Unit #:	Unassigned
Project Status:	Funded		

Description:

Construction of a new Sanitary Sewer Lift Station to replace Lift Station #15 on the Evans town line, between 35th and 23rd Avenues. Future developments will create a Local Improvement District to pay for lift station construction. This lift station replacement is a growth-driven project identified in the 2021 Sanitary Sewer Master Plan as necessary to accommodate two mid-sized subdivisions adjacent to Lift Station 15. This Project Initiation Form is created for the City to fund the portion of the construction costs in the Local Improvement District currently being conveyed by Lift Station 15 (existing flows), and the proposed subdivision to the west, with the Hope Springs subdivision covering approximately half of the construction costs.

Discussion of Progress:

Design is currently in progress (2023) with construction in 2024 and possibly into 2025. Project has been advanced due to state grant funding for Hope Springs moving that development project forward.

Justification:

Lift Station #15's current capacity is insufficient for future flows associated with two proposed subdivisions in the basin, as its current capacity is approximately 150 gpm. Modeling of the proposed subdivisions show that peak inflows (330 gpm) far exceed the capacity of the lift station. To service this area, Lift Station #15 will need to be relocated from its current location further east and south, and upsized to accommodate future flows.

Not relocating and upsizing Lift Station #15 will limit the growth and development in Greeley, along the south border of the City, between 23rd and 35th Avenues.

Doing a partial project just to accommodate Hope Springs will cost the city money when the property is further developed in the future.

Project is tagged to the "Housing for All" council priority as the city is fronting both the city's 16% portion and the 35% that will be charged to future development in order to allow the Hope Springs - Habitat development to proceed with all due haste. Project could also tag the "Sustainable Infrastructure and Mobility" council priority.

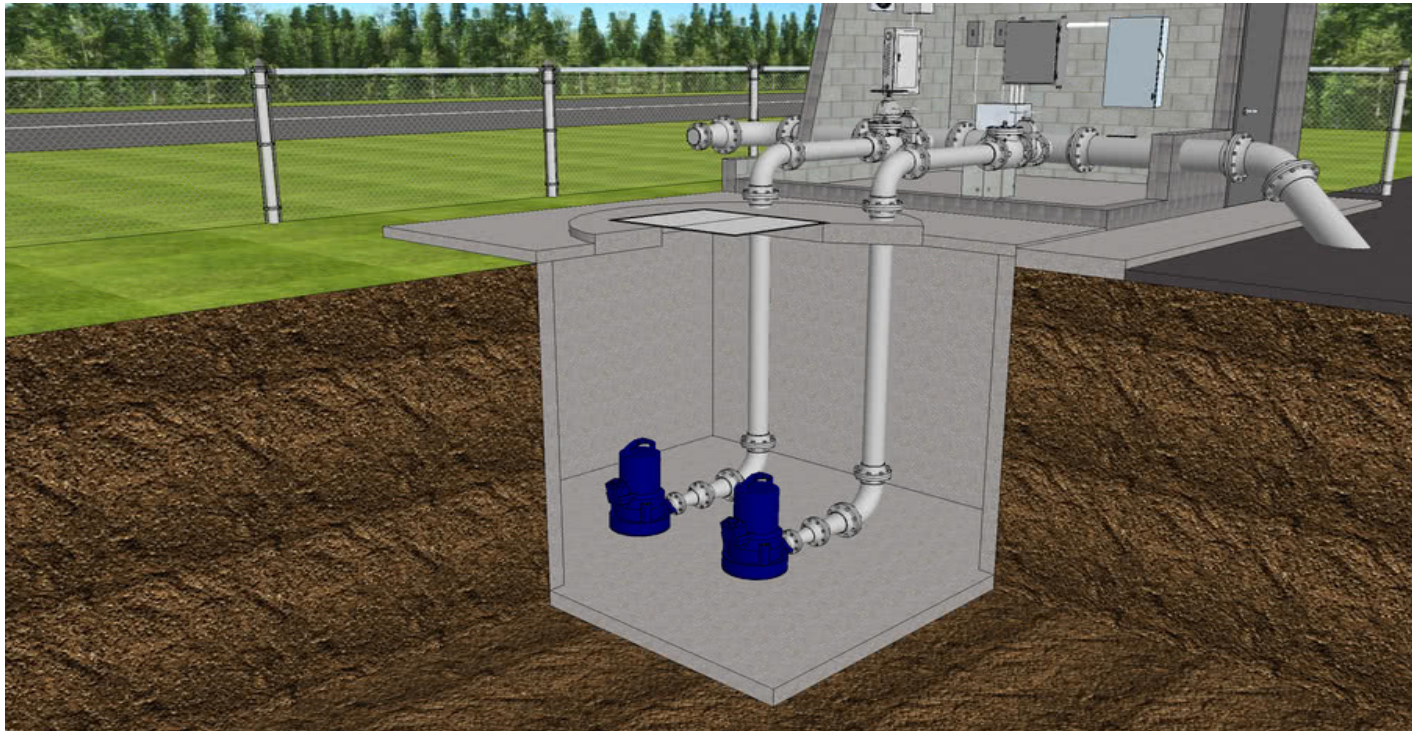
Revenue Detail:

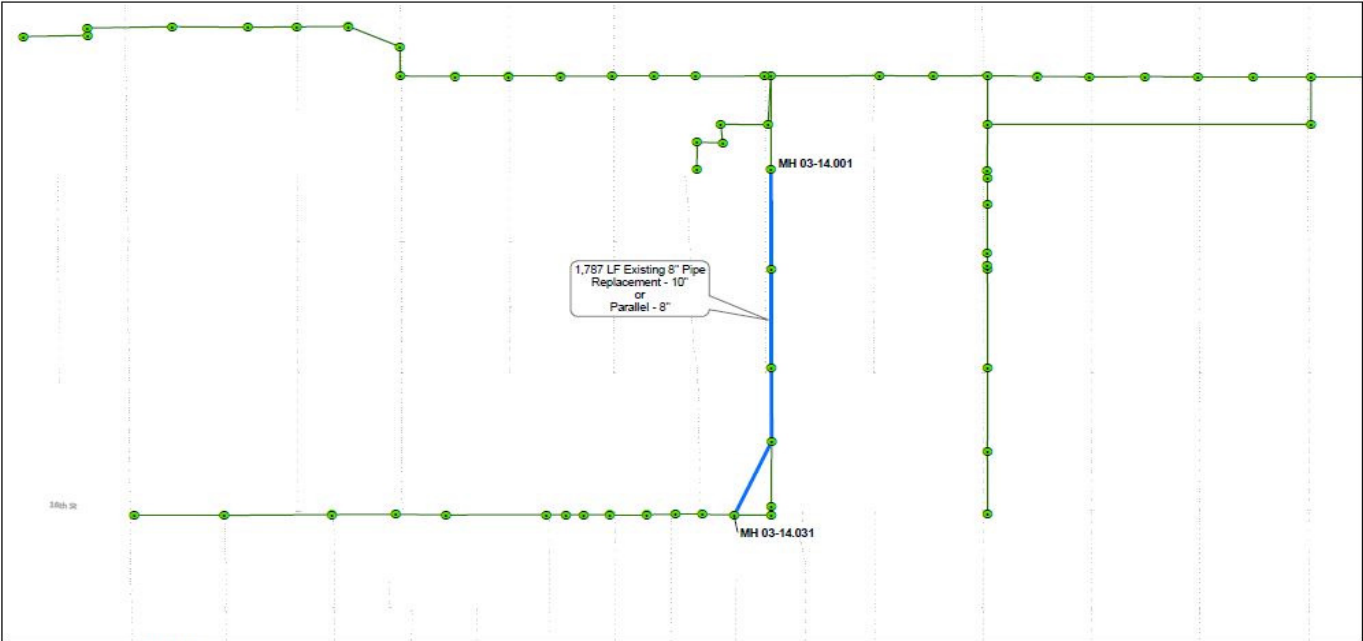
It is expected that the development funded portion of the \$929,500: \$325,325.00 will be received as revenue from the proposed improvement district within the next 10 years when the property is developed. Adding this project now is having no impact on rates in the near term.

Impact on Operating Budget:

Replacement of an existing lift station with a larger one will increase electricity costs.

GL Account	Description	Previous 3 Years	2022 Actual	2023 Revised Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	-	-	-	929,500	-	-	-	-	929,500
Total Revenue		-	-	-	\$929,500	-	-	-	-	\$929,500
Expense										
8202	Construction	-	-	-	715,000	-	-	-	-	715,000
8204	Contingency	-	-	-	214,500	-	-	-	-	214,500
Total Expense		-	-	-	\$929,500	-	-	-	-	\$929,500
Net Total		-	-	-	-	-	-	-	-	-





December 18, 2020

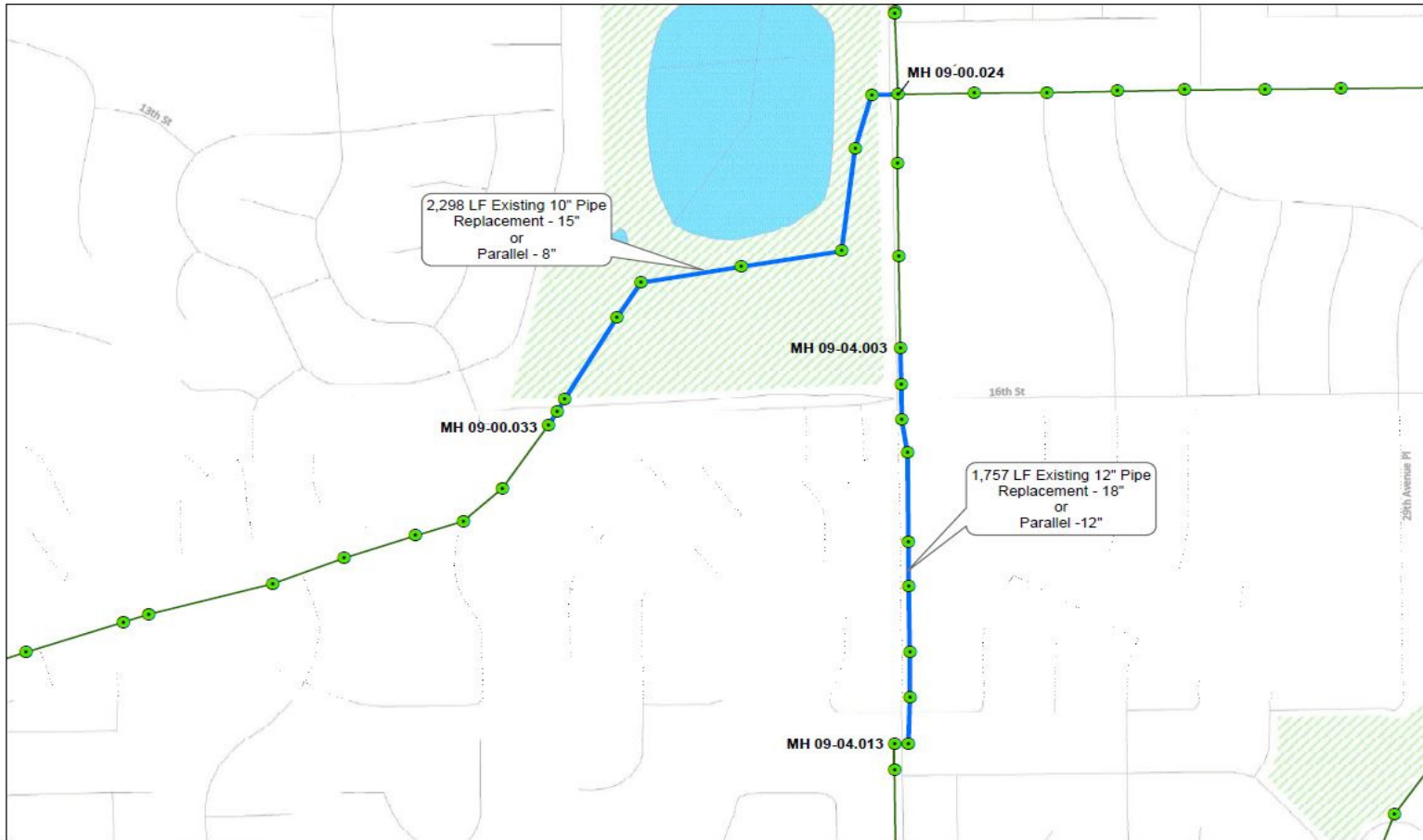
Legend

LREGA	Existing Lift Stations	5 Year Pipe Recommendations
Flood Zone	Existing Interceptors	20 Year Pipe Recommendations
Lake	Existing Force Mains	Buildout Pipe Recommendations
Park	5 Year LS Recommendations	5 Year Force Main Recommendations
Existing Manholes	Buildout LS Recommendations	Buildout Force Main Recommendations

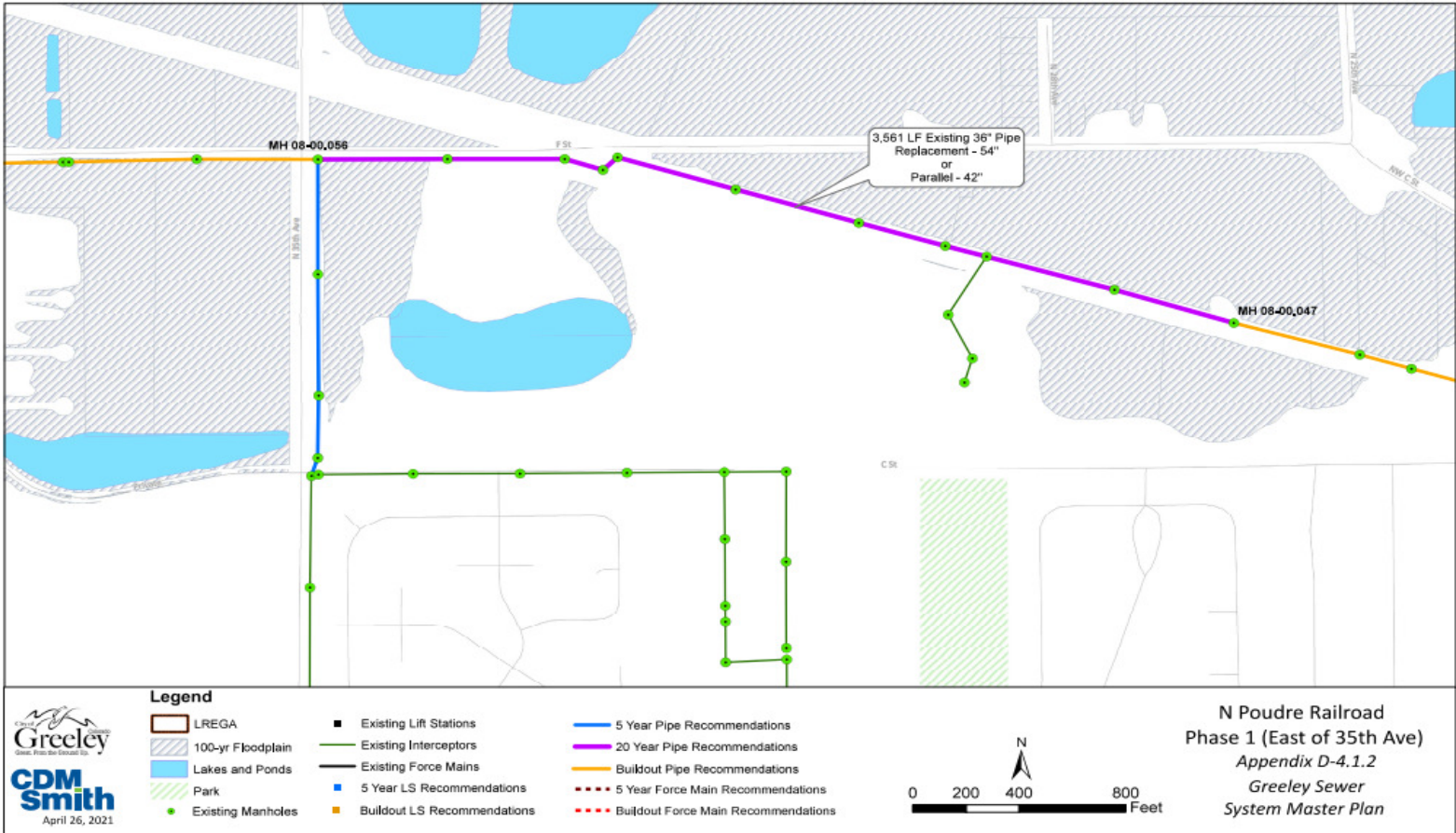
Central 16th Ave (North
Colorado Medical Center)
Appendix D-5
Greeley Sewer
System Master Plan



Legend



Legend



Sewer Collection System Rehabilitation

Project Number:	12631	Budget Year:	2024
Division:	Sewer Capital Projects	Council Priority:	Sustainable Infrastructure & Mobility
Project Type:	Sewer Replacement Collection	Regions:	0 - All Wards
Fund:	Sewer Capital Replacement	Location:	Citywide
Project Manager:	John Goin	Budget Unit #:	4134402830010000000000
Project Status:	Funded		

Description:

This is an ongoing program to physically replace undersized lines in the sewer collection system, rehabilitate corroded manholes and eliminate cross connections with the stormwater system. The City will disconnect area and roof drains from the sewer system on an annual basis, prioritizing the largest contributing cross connections. This budget has been consolidated with WWC Sewer Rehab and Manhole Rehabilitation which includes rehabilitation of various manholes with severe corrosion issues using cementitious materials (2024). Also, a new 4" main was identified in 18th Street west of 13th Avenue. There are 3 properties that appear to have compound sewer services that will be addressed with sewer stubs for future connection. The work is planned for 2027 because overlay was done on this block in 2021.

Discussion of Progress:

This is an annual program.

Justification:

This program was identified as a high priority in the 2008 Sanitary Sewer Master Plan (SSMP). The master plan identified lines six inches or smaller that could not be properly maintained and identified compound taps for elimination. Smoke testing in the early 2000's identified cross connections with the stormwater system, so disconnecting will decrease I/I into sanitary system. Completion of these projects will improve services to underserved customers and clarify ownership and maintenance responsibilities of customer service lines. Not addressing maintenance needs increases the likelihood of failures of mains, manholes or lift stations, which could lead to costly cleanup or legal action by affected parties.

GL Account	Description	Previous 3 Years	2022 Actual	2023 Revised Budget	2024	2025	2026	2027	2028	Future	Grand Total
Revenue											
	Fund Balance	191,447	-	184,576	660,000	475,000	495,000	555,000	325,000	1,625,000	4,511,023
	Total Revenue	\$191,447	-	\$184,576	\$660,000	\$475,000	\$495,000	\$555,000	\$325,000	\$1,625,000	\$4,511,023
Expense											
8202	Construction	150,823	-	149,576	430,000	270,000	285,000	245,000	145,000	725,000	2,400,399
8204	Contingency	-	-	-	-	-	-	25,000	-	-	25,000
8224	Operating Supplies	12,605	-	15,000	110,000	110,000	110,000	190,000	110,000	550,000	1,207,605
8226	Permits, Fees, Etc	162	-	-	5,000	5,000	-	-	-	-	10,162
8229	Professional Services	18,956	-	10,000	35,000	15,000	30,000	30,000	10,000	50,000	198,956
8232	Project Management	8,482	-	-	-	-	-	-	-	-	8,482
8242	Utility Services	-	-	-	10,000	10,000	-	-	-	-	20,000
8244	Capital Equipment >\$5,000	-	-	-	50,000	50,000	50,000	50,000	50,000	250,000	500,000
	Total Expense	\$191,447	-	\$184,576	\$660,000	\$475,000	\$495,000	\$555,000	\$325,000	\$1,625,000	\$4,511,023
	Net Total	-	-	-	-	-	-	-	-	-	-





*TIENet® 360 LaserFlow Ex® Velocity Sensor
Section 2 Preparation and Installation*

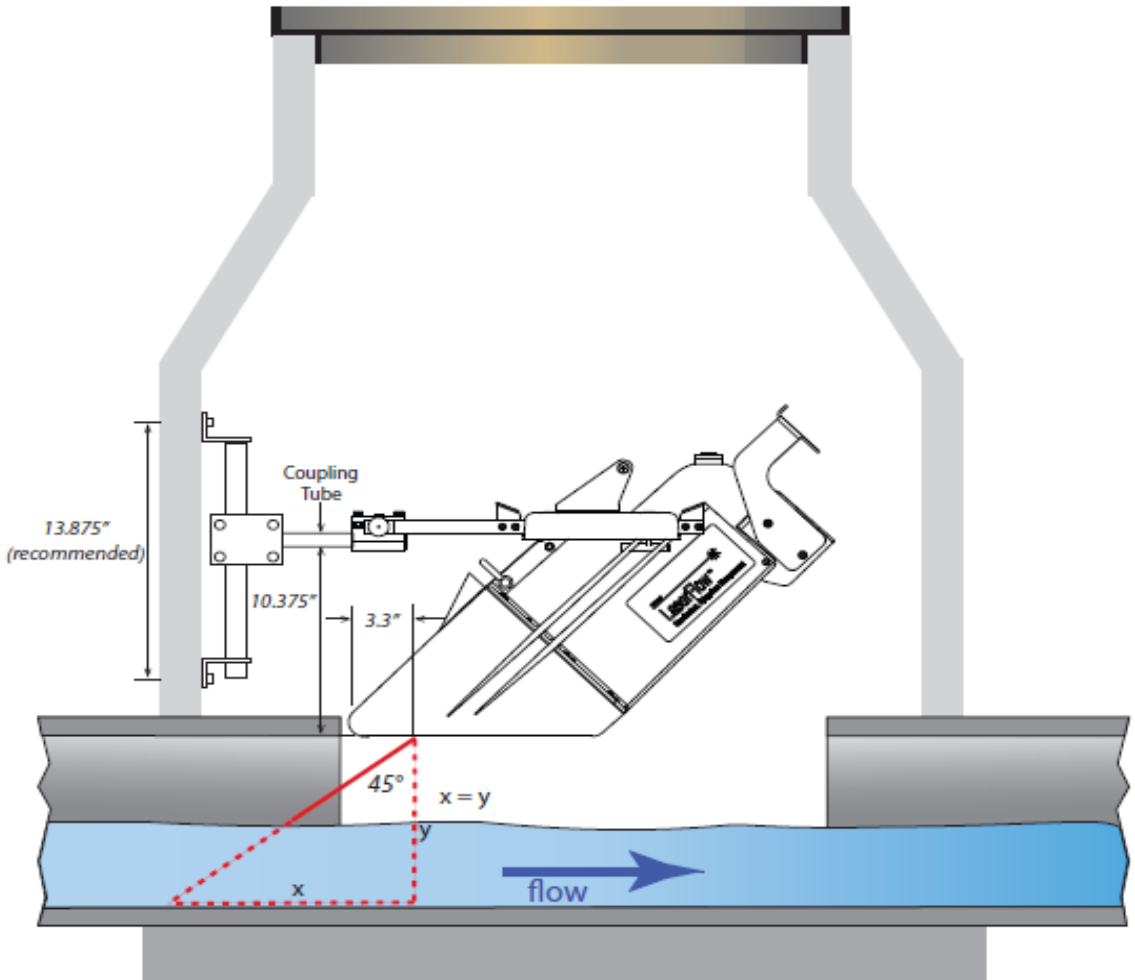


Figure 2-16 Typical manhole installation

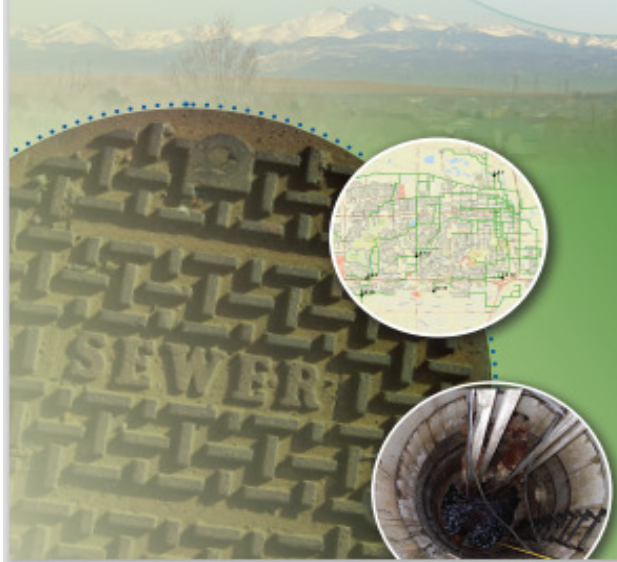


WATER POLLUTION CONTROL FACILITY TREATMENT AND NUTRIENT MASTER PLAN

FINAL | November 2018



FINAL
Greeley Sanitary Sewer
Master Plan
June 2021



CDM
Smith



City of Greeley
 Director of Finance
 P. O. Box 1928
 Greeley, CO 80632-1928

Statement of Account for Utility Service(s)

THIS BILL SHOWS A PREVIOUS AMOUNT DUE.
 PLEASE REMIT AT EARLIEST CONVENIENCE.
 IF PYMT HAS BEEN MADE, THANK YOU.

ACCOUNT INFORMATION		WATER CHARGES					
Account Number	222-222222-22	BUDGET: Indoor	7	Outdoor	21	Total	28
Service Location	2000 GREELEY AVENUE CT	RESIDENTIAL WATER					
Persons in Household:	4	Irrigable Area:	7799	Used	Rate	Amount	

METER INFORMATION					
Meter ID	Date	Curr Read	Date	Prev Read	Usage
97403425U	09/28	750	08/28	700	50

CONSUMPTION HISTORY		BILLING SUMMARY	
(Usage in thousand gallons)		Payments	\$165.74
		Bal Fwd	\$10.74
		RESIDENTIAL WATER	\$262.29
		RESIDENTIAL SEWER	\$15.72
		STORMWATER	\$11.09

CURRENT CHARGES	\$289.10
TOTAL DUE ON 10/18/17	\$299.84

WATER CONSERVATION MESSAGES

HOW DO YOU MEASURE UP? CHECK OUT YOUR WATER BUDGET AT WWW.EFFICIENCYREWARDED.COM WHAT IS IT? UPDATE YOUR PROFILE, FAQs, CHECK OUT THE WATER BUDGET WEBMAP, SIGNUP FOR WATERSMART AND MORE...

THE WATER CONSERVATION PROGRAM OFFERS FREE AUDITS. WINTER IS THE TIME TO GET AN INDOOR AUDIT OR SIGN UP FOR A SPRINKLER SYSTEM AUDIT NEXT SUMMER. SIGN UP AT GREELEYGOV.COM/AUDITS OR CALL 970-336-4229

****LEAK ALERT** POTENTIAL LEAK HAS BEEN DETECTED PLEASE MAKE ANY NECESSARY REPAIRS**

BILLING MESSAGES

QUESTIONS? CALL 970-350-9260

TO PAY YOUR BILL USING YOUR DEBIT OR CREDIT CARD WITH NO ADDITIONAL FEES, GO TO WWW.GREELEYGOV.COM/UTILITYBILL

PARA PAGAR SU FACTURA CON TARJETA DE DEBITO O CREDITO SIN CARGOS ADICIONALES, VAYA A: WWW.GREELEYGOV.COM/UTILITYBILL

YOUR STORMWATER FEE IS CALCULATED USING THE SQFT SHOWN BELOW. QUESTIONS? CALL 970-336-4074
 Stormwater SQFT: 12201

DETACH AT PERFORATION AND RETURN WITH YOUR REMITTANCE				
Account Number	Service Location	Due Date	Amount Due	Amount Enclosed
222-222222-22	2000 GREELEY AVENUE CT	10/18/17	\$289.10	



City of Greeley
 Director of Finance
 P. O. Box 1928
 Greeley, CO 80632-1928

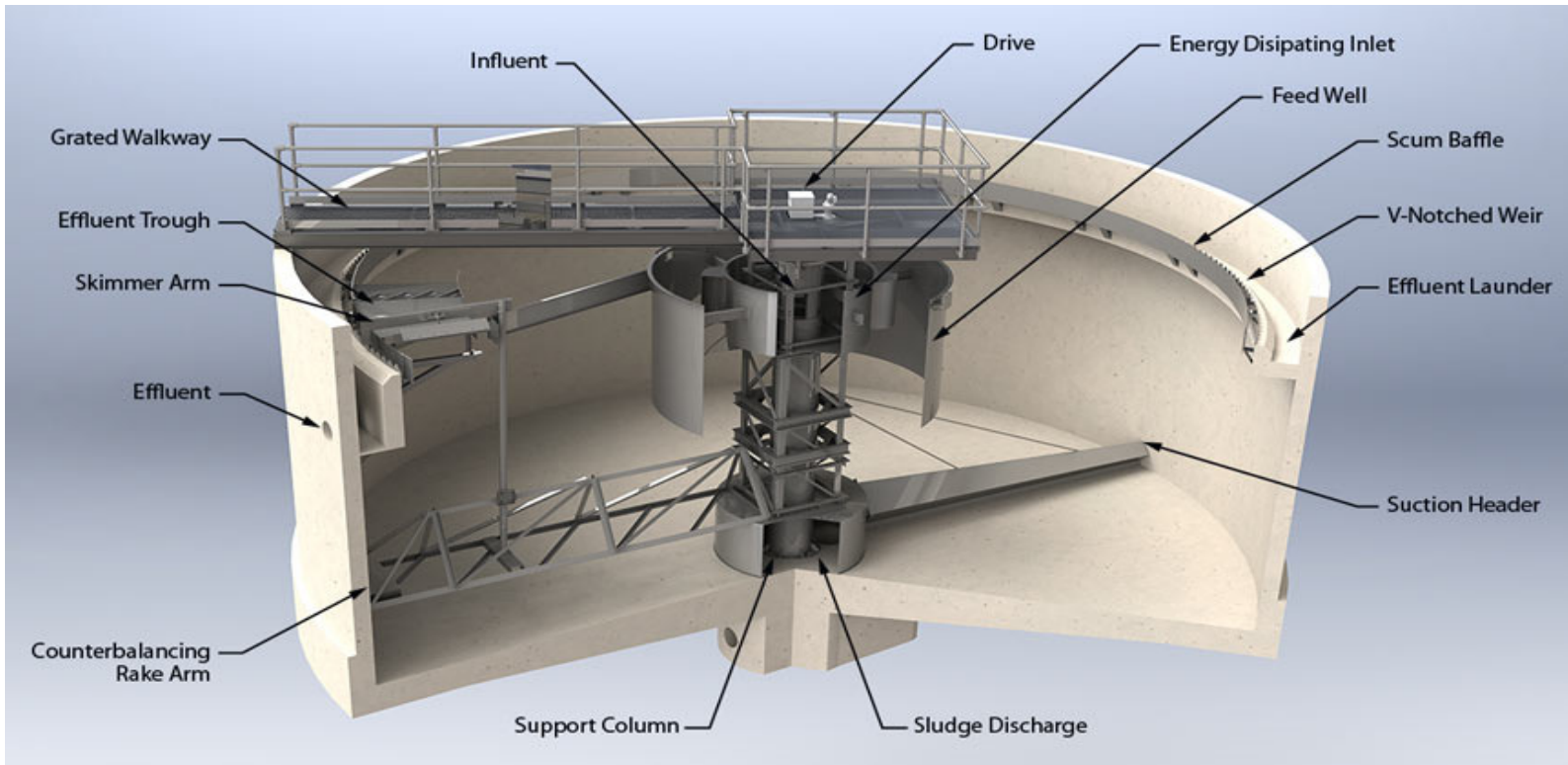
GREELEY CUSTOMER 2
 2000 GREELEY AVENUE CT
 GREELEY CO 80634

19069-814068010000539848









WTRF Regulation 31 Improvements

Project Number:	413New7	Budget Year:	2024
Division:	Sewer Capital Projects	Council Priority:	Sustainable Infrastructure & Mobility
Project Type:	Sewer Replacement Treatment	Regions:	
Fund:	Sewer Capital Replacement	Location:	WTRF 300 E 8TH STREET
Project Manager:	Unassigned	Budget Unit #:	Unassigned
Project Status:	Funded		

Description:

Future updates to Regulation 31 will become active in 2026 and will be substantially decreasing the allowed nutrient content of wastewater leaving the Wastewater Treatment and Reclamation Facility and will require significant upgrades and improvements to the existing plant. The department plans to be earning Voluntary Incentive Program (VIP) credits toward this regulation between 2022 and 2026. These credits are obtained by obtaining effluent nutrient levels lower than the current regulation in effect and they are worth time extensions to meeting the new regulations. We can potentially earn up to 10 years of credits, and we are conservatively planning on earning 8 years of credits (allowing for something to go wrong). This means we need the improvements to be active at the end of 2033. We will revisit this planning horizon as the VIP credits are amassed in the intervening years. Well before the project start date we will know how many credits have been earned.

In 2024 the planning is that these improvements will be needed 5 or more years before expansions that would add capacity are needed. At this time, the department is putting the planned expansion project N769 beyond the 10-Year Planning horizon and anticipates the need to do the improvements to meet regulation 31 by the end of the 10-Year Planning horizon. In the intervening years we will continue to monitor plant capacity and assess the need for capacity expansion versus regulatory improvements to time these two projects.

Discussion of Progress:

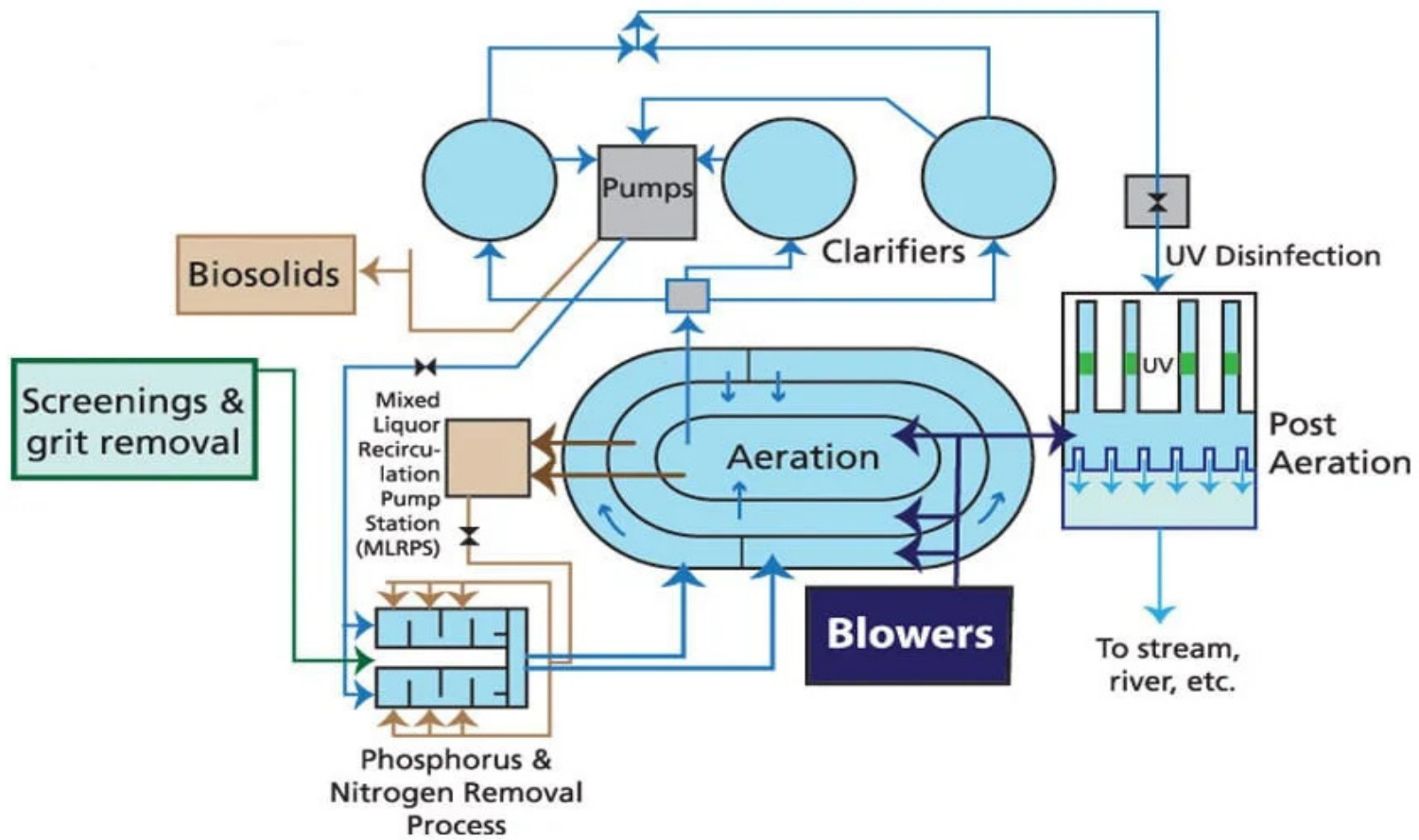
Project is in the planning stage. Questions of the appropriate timing still need to be answered by future developments, currently planning project design starting in 2032 with construction in 2033.

Justification:

Plant improvements needed to address upcoming changes to Regulation 31 which will be reducing allowed nutrient in point source discharges to public waterways.

GL Account	Description	Previous 3		2023 Revised Budget	2024	2025	2026	2027	2028	Future	Grand Total
		Years	2022 Actual								
Revenue											
	Fund Balance	-	-	-	-	-	-	-	-	65,754,000	65,754,000
Total Revenue		-	-	-	-	-	-	-	-	\$65,754,000	\$65,754,000
Expense											
8202	Construction	-	-	-	-	-	-	-	-	52,400,000	52,400,000
8226	Permits, Fees, Etc	-	-	-	-	-	-	-	-	150,000	150,000
8229	Professional Services	-	-	-	-	-	-	-	-	11,600,000	11,600,000
8232	Project Management -	-	-	-	-	-	-	-	-	1,080,000	1,080,000
9303	Public Art Fund	-	-	-	-	-	-	-	-	524,000	524,000
Total Expense		-	-	-	-	-	-	-	-	\$65,754,000	\$65,754,000
Net Total		-	-	-	-	-	-	-	-	-	-





General Rehabilitation Projects

Project Number:	12545	Budget Year:	2024
Division:	Sewer Capital Projects	Council Priority:	Sustainable Infrastructure & Mobility
Project Type:	Sewer Replacement Treatment	Regions:	1- 16 St North/35 Ave East
Fund:	Sewer Capital Replacement	Location:	WTRF 300 E 8TH STREET
Project Manager:	Cadee Oakleaf	Budget Unit #:	4134402830070000000000
Project Status:	Funded		

Description:

Includes a variety of projects that includes such work as the replacement, rehabilitation, or overhaul of large pumps, valves, actuators, motors, centrifuge units, gear boxes, air handling units, heat exchangers, bar screens, variable frequency drive units, turbo blowers, plant road repairs, landscaping rehab for storm water program, roll-up doors, uninterrupted power supply units (UPS), equipment sensors, UV disinfection lamps & ballasts, building roofs, chemical tanks, etc.

Discussion of Progress:

This comprises of general rehabilitations projects, including repair and replacement, required at the WTRF. Projects that have been completed this year include both planned projects and emergency rehabilitation projects. Projects that have been completed in 2021 include UV gate gear boxes and Rotork actuator replacement, influent pump re-build, and some routine on-going rehabilitation work. Projects in progress include LSG Vault rehab, various UV maintenance and upgrades, influent wet well cleanout, high-voltage breaker repair, WAS total solids analyzer installation, digester transfer macerator, centrifuge feed pumps, and routine on-going rehabilitation work.

Justification:

Manufacturer's recommendations, equipment performance, downtime, and repair history; equipment life expectancies; inability to find replacement parts, etc. all enter into the decision as to whether or not a particular item needs to be replaced, repaired, or refurbished. Rehab funds are budgeted annually so that the plant maintenance staff can stay abreast of the need to address aging equipment and infrastructure at the WTRF. Not replacing aging or energy-consuming equipment in a timely manner may result in higher O&M costs, excessive downtime for repairs, and treatment process disruptions. These could result in potential permit non-compliances.

GL Account	Description	Previous 3 Years	2022 Actual	2023 Revised Budget	2024	2025	2026	2027	2028	Future	Grand Total
Revenue											
	Fund Balance	2,024,269	191,451	1,282,020	506,000	621,000	618,000	766,000	436,000	1,790,000	8,234,740
51**	Sewer Rates	2,842	-	-	-	-	-	-	-	-	2,842
Total Revenue		\$2,027,111	\$191,451	\$1,282,020	\$506,000	\$621,000	\$618,000	\$766,000	\$436,000	\$1,790,000	\$8,237,581
Expense											
8202	Construction	661,436	104,412	371,300	10,000	60,000	145,000	270,000	20,000	100,000	1,742,148
8208	Furniture, Fixtures & Equipment	130,351	-	89,647	95,000	50,000	50,000	50,000	50,000	250,000	764,998
8216	Miscellaneous	40,167	-	-	-	-	-	-	-	-	40,167
8224	Operating Supplies	201,231	-	-	-	-	-	-	-	-	201,231
8229	Professional Services	223,377	72,880	271,147	301,000	151,000	342,000	316,000	291,000	960,000	2,928,403
8232	Project Management	184,749	-	-	-	-	-	-	-	-	184,749
8244	Capital Equipment >\$5,000	576,246	14,159	524,926	65,000	320,000	36,000	80,000	20,000	130,000	1,766,331
Total Expense		\$2,027,111	\$191,451	\$1,282,020	\$506,000	\$621,000	\$618,000	\$766,000	\$436,000	\$1,790,000	\$8,237,581
Net Total		-	-	-	-	-	-	-	-	-	-

