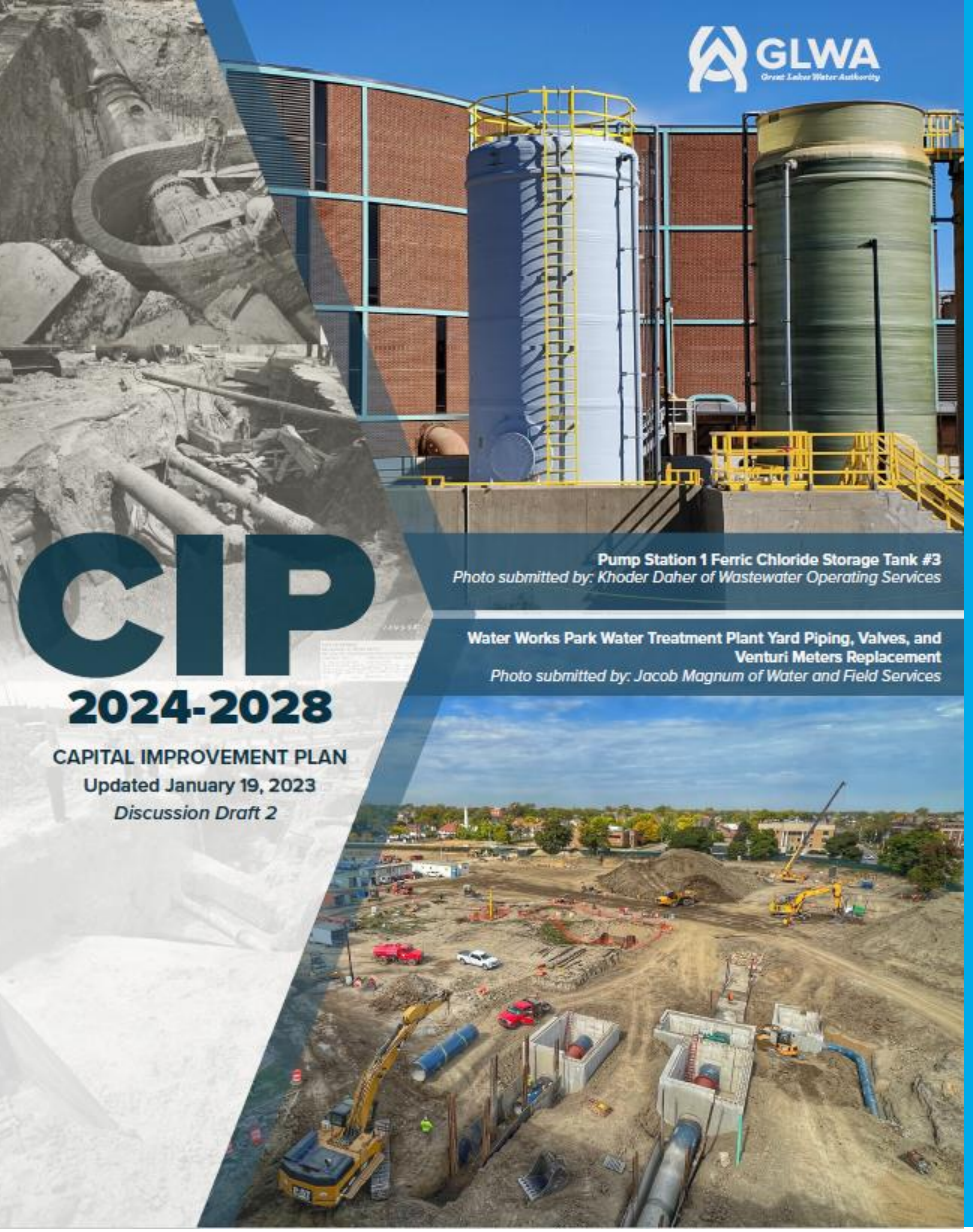

CIP Delivery Team

GLWA FY 2024–2028 Capital Improvement Plan

GLWA Board of Directors Meeting

January 25, 2023, 2:00 p.m.

Jody Caldwell, PE
Chief Planning Officer

Dima El-Gamal, PHD, PE, LEED@AP
Capital Improvement Planning Director

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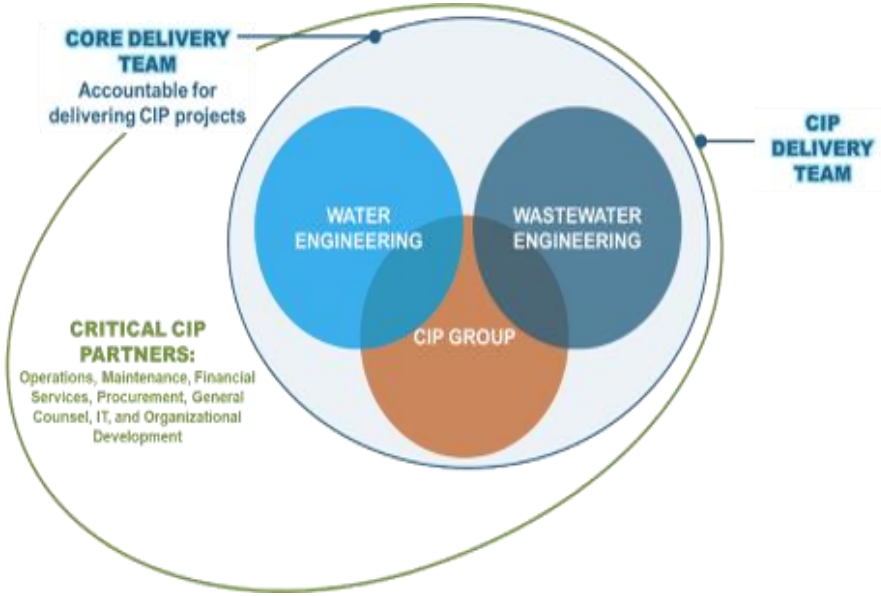
OVERVIEW

- Five-year looking forward document with a 10-year outlook
- CIP alignment with GLWA's overall Financial Plan
- Stakeholder Input – Opportunities for Board, Member Partners & vendor community to provide input during development
- Compilation of projects from all areas of the organization
- Address projects that promote improved redundancy, system resiliency, and health & safety
- Conformance with recommendations of long-term master plans
- Meet regulatory and operational needs



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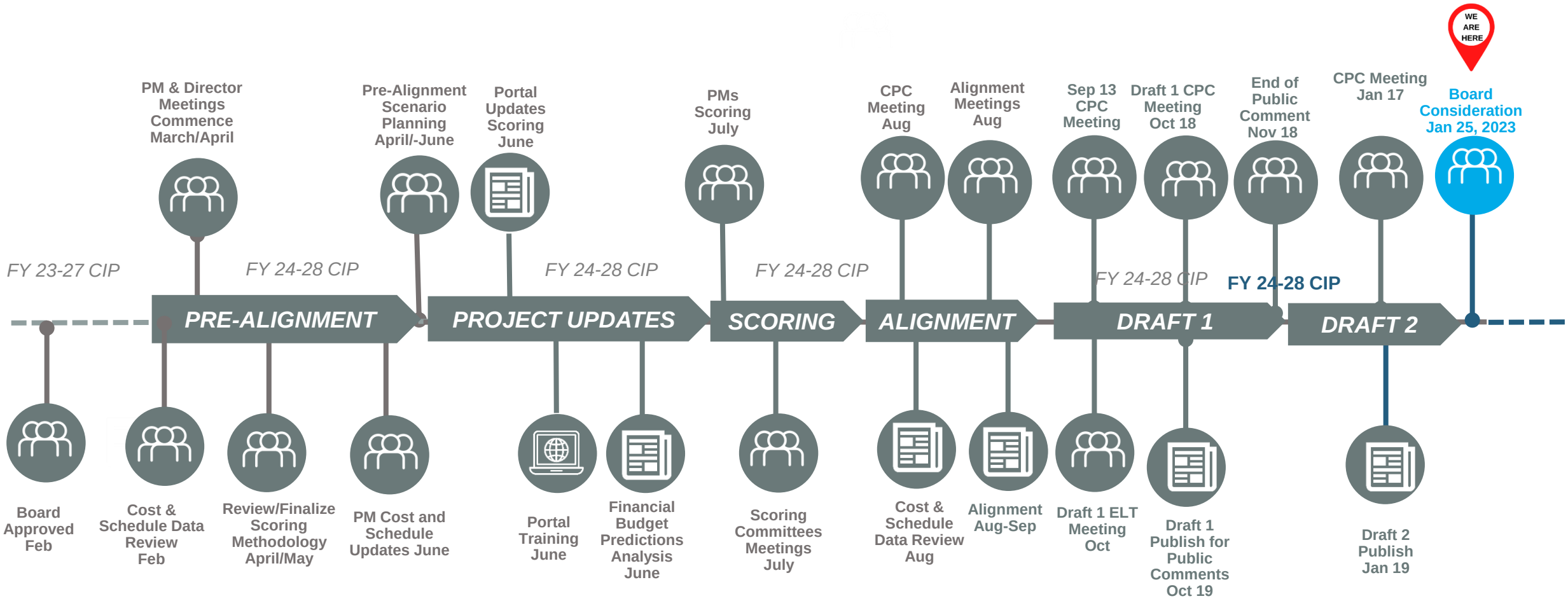
WE ARE HERE TODAY

CIP Delivery Team



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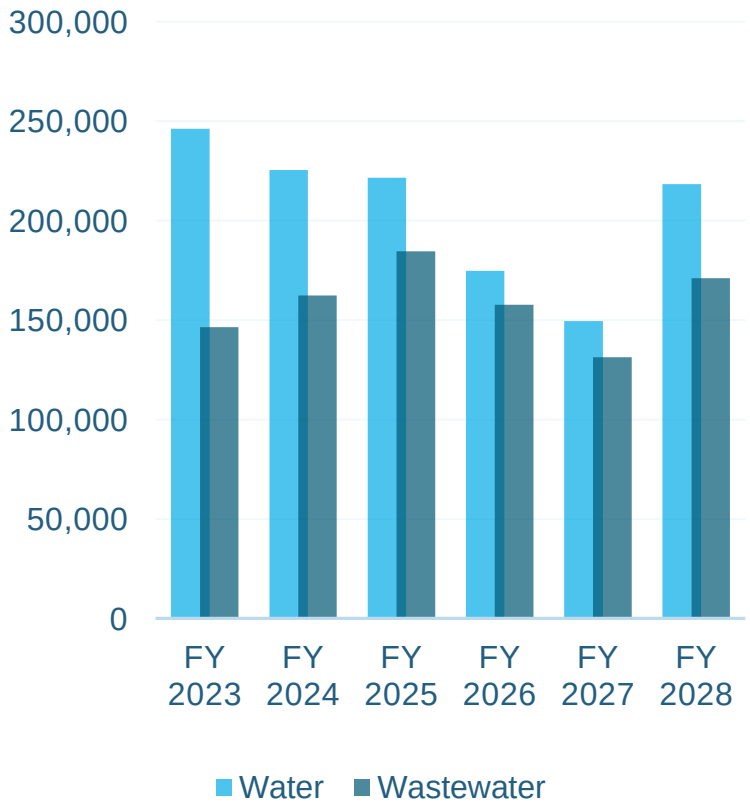
CIP AT A GLANCE

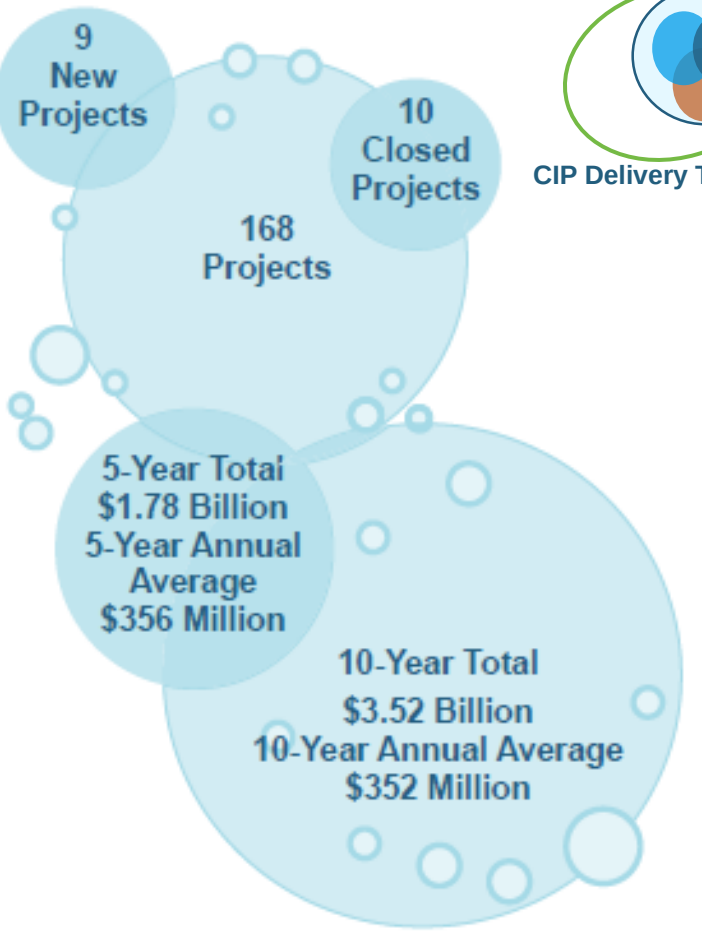
WATER	
5-Year Total	**$986,616**
5-Year Average	$197,323
10-Year Total	**$1,957,610**
10-Year Average	$195,761

WASTEWATER	
5-Year Total	**$798,176**
5-Year Average	$159,635
10-Year Total	**$1,560,661**
10-Year Average	$156,066

Note : Figures are shown in $1,000's.

5-Year Outlook





CIP Delivery Team

*5 NEW PROJECTS FROM PROGRAMS

**IN ADDITION TO THE 168 PROJECTS, THERE ARE:
+2 RECLASSIFIED PROJECTS
+1 CANCELLED PROJECT

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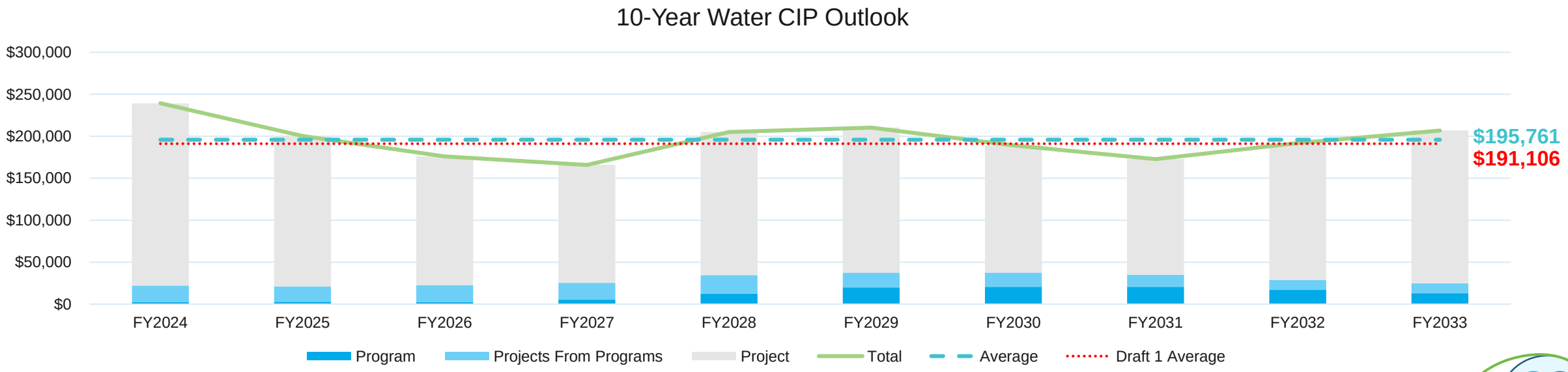
Financial figures in $1,000s and rounded

FY2024-2033 10-YEAR WATER CIP OUTLOOK UPDATES

	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
Programs	$169	$2,327	$2,665	$2,410	$5,319	$12,393	$19,861	$20,567	$20,541	$16,958	$13,011
Projects From Programs	$20,412	$19,775	$18,434	$20,210	$20,040	$22,148	$17,666	$16,988	$14,430	$11,940	$11,907
Projects	$220,876	$233,304	$199,117	$153,490	$155,766	$133,277	$133,939	$122,543	$156,709	$181,359	$171,762
Total	**$225,789**	**$239,260**	**$200,422**	**$176,034**	**$165,813**	**$205,087**	**$210,312**	**$189,062**	**$172,765**	**$191,957**	**$206,898**

Financial figures in $1,000s and rounded



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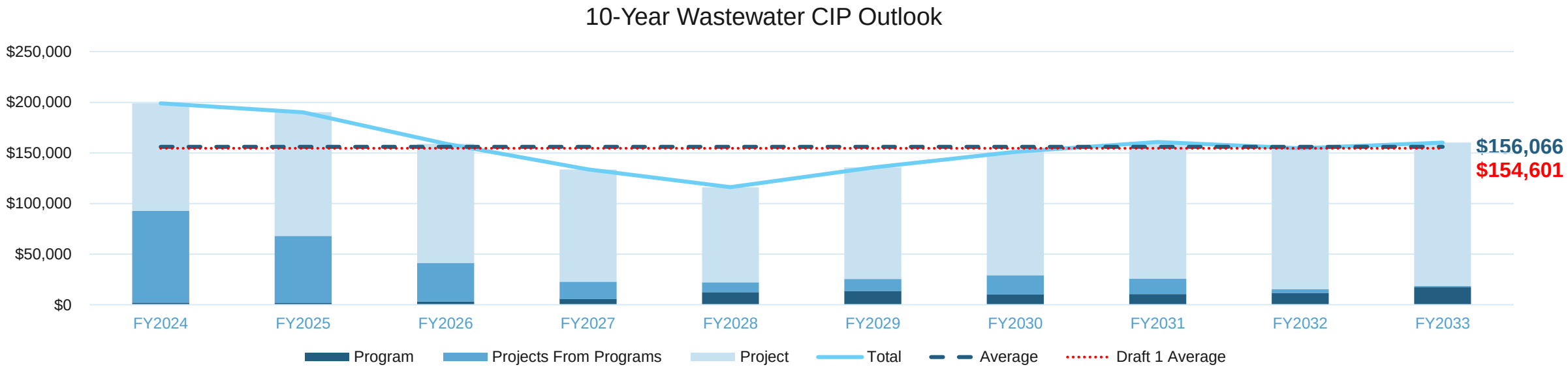
CIP Delivery Team

FY2024-2033 10-YEAR WASTEWATER CIP OUTLOOK UPDATES

	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
Programs	$802	$2,240	$1,730	$3,243	$5,716	$12,502	$13,623	$10,117	$10,637	$11,391	$17,150
Projects From Programs	$71,503	$90,527	$66,322	$38,202	$17,140	$9,625	$11,772	$19,005	$15,244	$3,956	$1,513
Projects	$67,108	$106,294	$122,107	$117,599	$110,875	$94,053	$110,268	$121,954	$134,987	$139,287	$141,581
Total	**$139,412**	**$199,061**	**$190,159**	**$159,044**	**$133,732**	**$116,180**	**$135,663**	**$151,075**	**$160,868**	**$154,635**	**$160,244**

Financial figures in $1,000s and rounded



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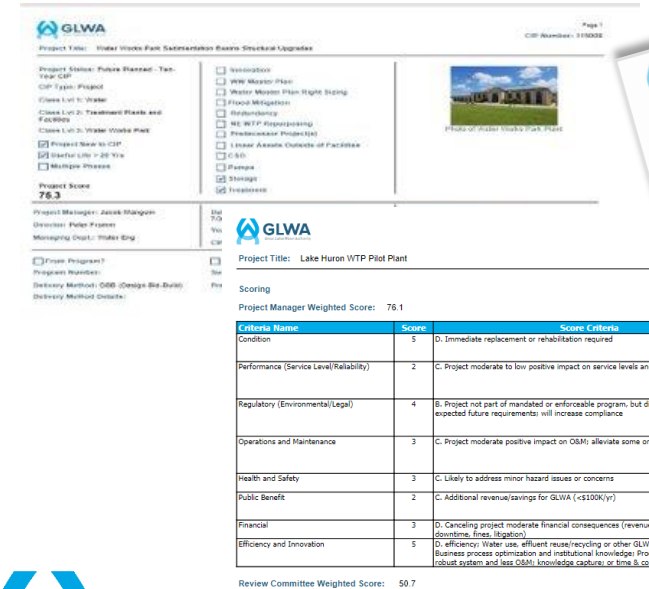
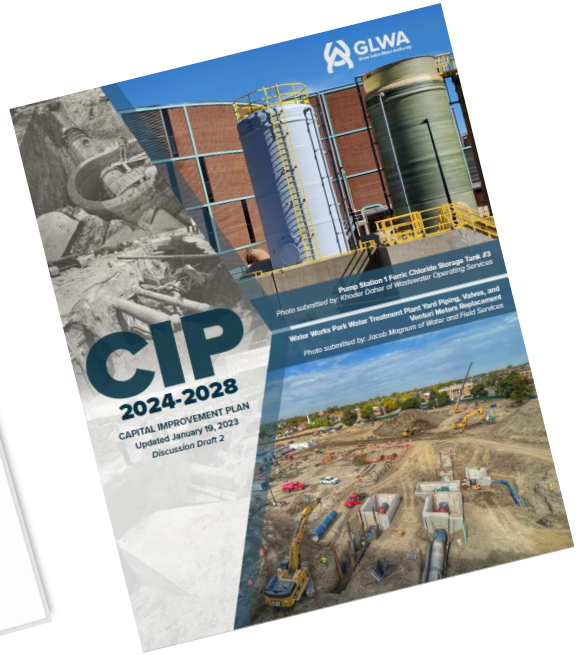
CIP Delivery Team

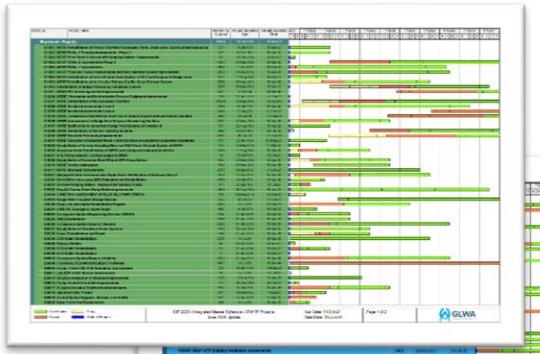
FY 2024-2028 CIP DOCUMENT

- 10-Year outlook table is now broken into three categories
- New project status: added future planned beyond 10 years
- Improved BCE reporting
- Actuals as of October 30, 2022

CIP Delivery Team







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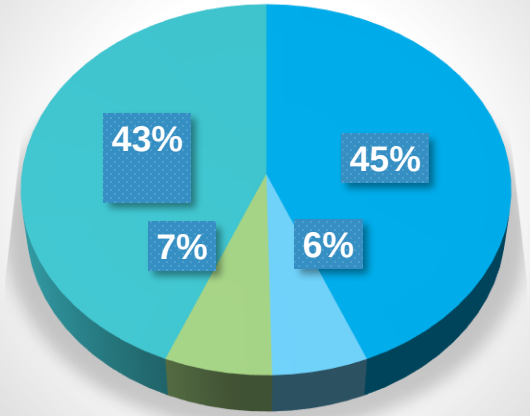
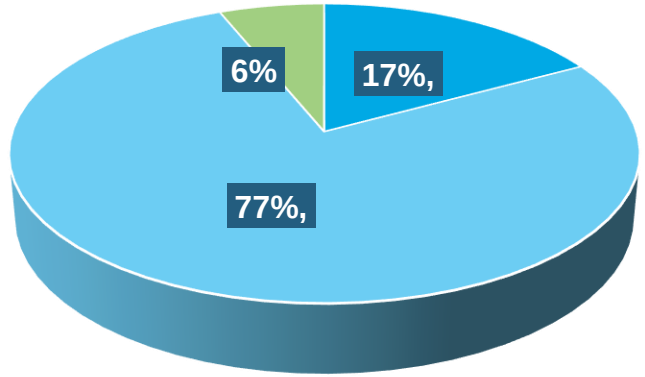
FY 24-28 STATISTICS and RECAP

CIP Delivery Team

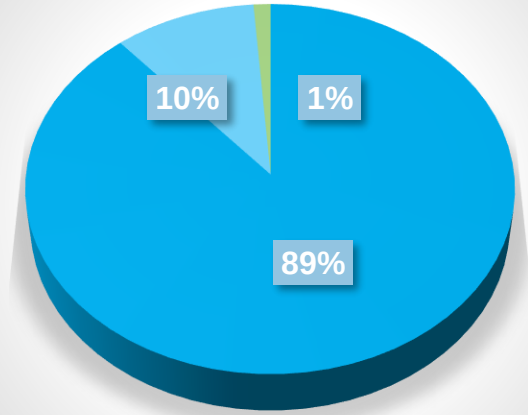
Water



Transmission Pumps Storage Treatment

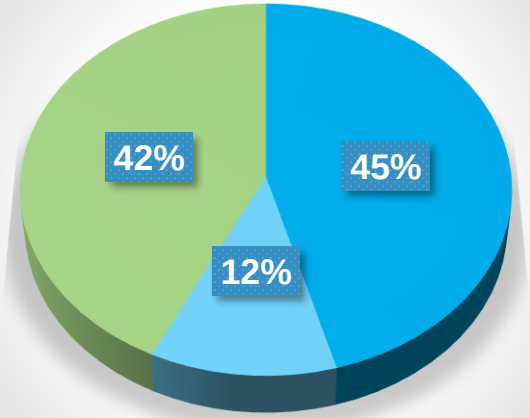


Active Project Execution Future Planned

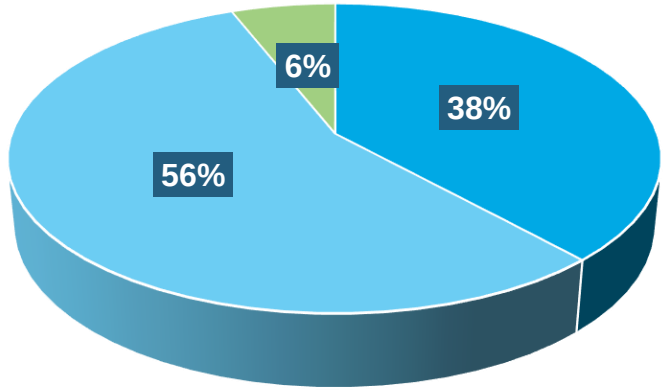


Construction Design Salary/Proffessional Services

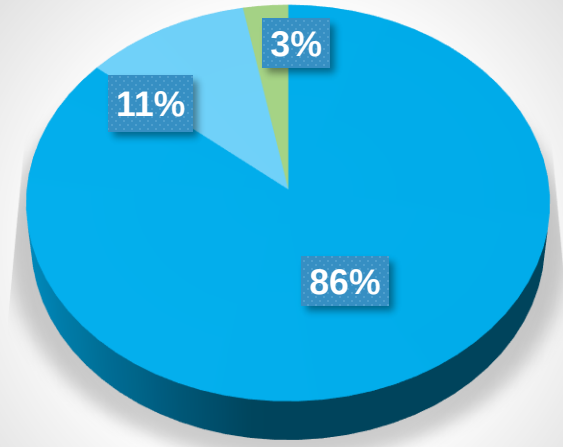
Wastewater



Conveyance/Pumps CSO Treatment



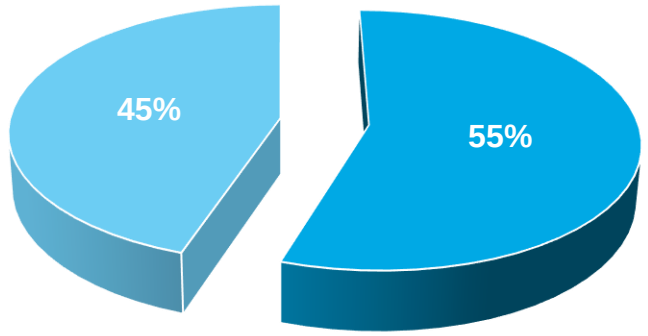
Active Project Execution Future Planned



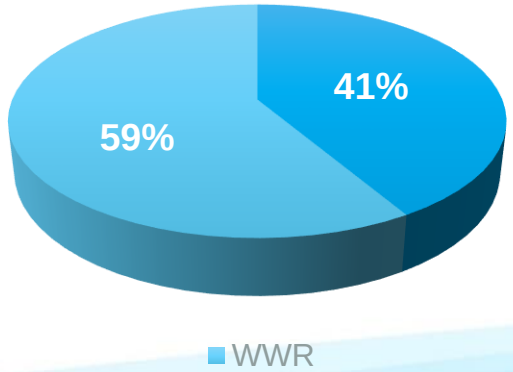
Construction Design Salary/Proffessional Services

FY 24-28 STATISTICS AND RECAP

CIP Delivery Team



WET WEATHER RESILIENCY



GLWA Great Lakes Water Authority

Financial figures in $1,000s

96-inch Water Transmission Main Relocation and Isolation Valve Installations

CIP Delivery Team

CIP Number: 122004
Project Status: Project Execution – Construction
Delivery Method: Construction Management At RISK (CMAR)
Score: 77.5

Design/Engineering: June 20 to Nov 28
Construction: Feb 22 to Aug 28
Total Project Budget: ~ $269 M
Funding: Drinking Water Revolving Fund (DWRF)

- Addition of isolation valves along the 96-inch water transmission main to provide isolation and redundancy to Lake Huron WTP supply.
- Relocation of 2.5 miles of 96-inch transmission main currently located in the former G&H Industrial Landfill
- Installation of a new parallel main along 96" main between North Service Center station and Almont's master meter

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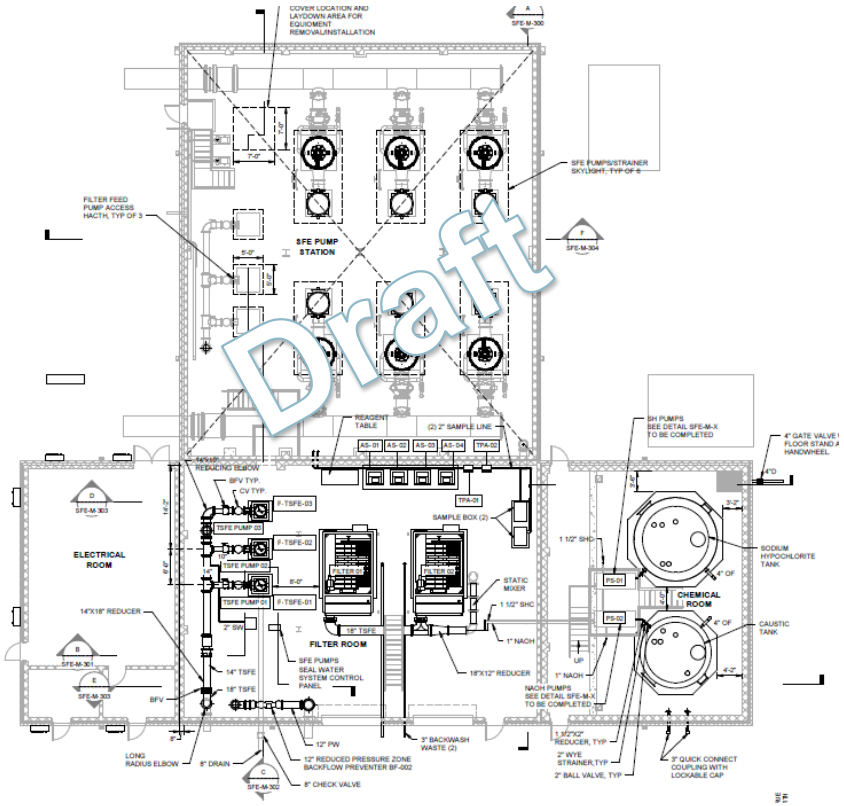
REHABILITATION OF SCREENED FINAL EFFLUENT (SFE) PUMP STATION

CIP Delivery Team

CIP Number: 216008
Project Status: Project Execution – Design
Delivery Method: Progressive Design Build (PDB)
Score: 63.2
Design/Engineering (30%) : April 21-May 27
Construction: May 2024 to May 27
Total Project Budget: ~ $63M
Funding: Bonds



- The SFE Pump Station provides SFE water to many of the GLWA WRRF treatment processes and needs to be completely rehabilitated to maintain uninterrupted supply of SFE water to these processes
- Project will provide service water for the plant
- Will be energy and resource efficient (Innovation). Provide a re-use of treated effluent.

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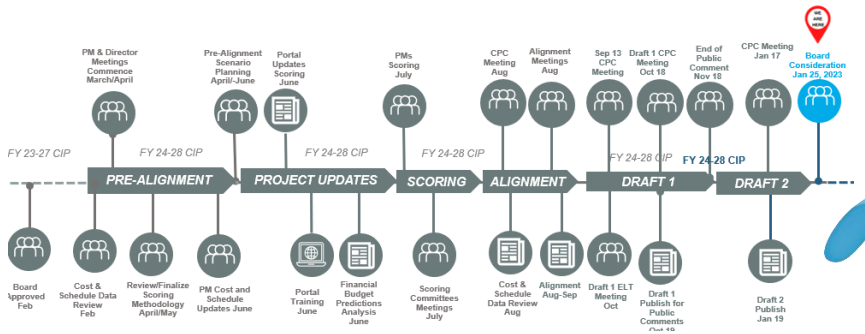
FY 24-28 CIP-WHAT'S NEXT ?

CIP Delivery Team



Board Consideration for Adoption Feb 2023

CIP In Effect July 1, 2023

FY 24-28 CIP

FY 24-28 CIP

FY 24-28 CIP

Board Consideration

Into Effect

Capital Planning Committee Meeting Feb 2023

GLWA Great Lakes Water Authority

QUESTIONS &THANK YOU

CIP Delivery Team

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