

2027-2031

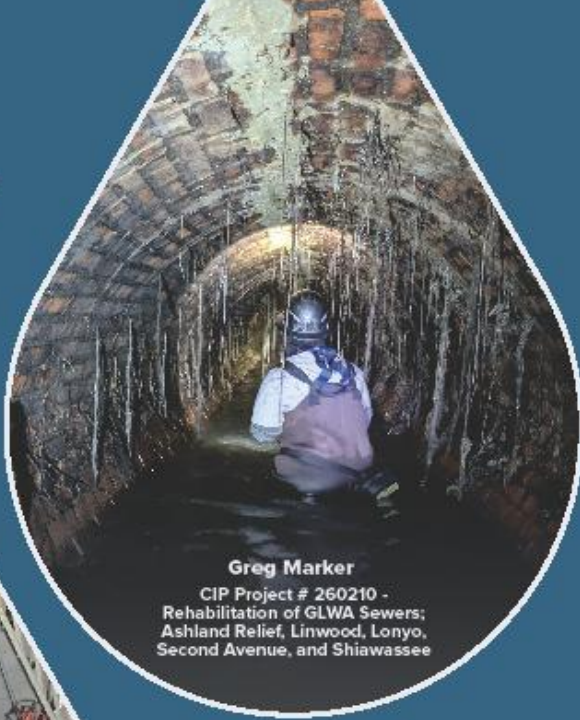
# CAPITAL IMPROVEMENT PLAN



CIP Delivery Team

## CAPITAL IMPROVEMENT PLAN FY 2027 - 2031 DISCUSSION DRAFT 2

Capital Planning Committee Meeting  
December 09, 2025



**Greg Marker**

CIP Project # 260210 -  
Rehabilitation of GLWA Sewers;  
Ashland Relief, Linwood, Lonyo,  
Second Avenue, and Shiawassee



**Mark Blossfeld**

CIP Project # 170802 - Reservoir  
Inspection, Design, and Construction  
Management Services Phase II



**Dima El-Gamal**, PhD, PE, LEED @ AP.  
*Capital Improvement Planning Director*

**Jody Caldwell**, PE  
*Chief Planning Officer*



# AGENDA

- 💧 CIP DISCUSSION DRAFT 1 FEEDBACK
- 💧 MAJOR CIP CHANGES SINCE DISCUSSION DRAFT 1
- 💧 CIP PUBLIC DASHBOARD
- 💧 RECAP AND NEXT STEPS



# KEY TAKEAWAYS

## 💧 Discussion Draft # 1

- 💧 Presented to Capital Planning Committee (CPC) on October 21, 2025
- 💧 Public comment period on Draft 1 from Oct 22 - Nov 7, 2025 – 2 comments received

## 💧 Discussion Draft #2

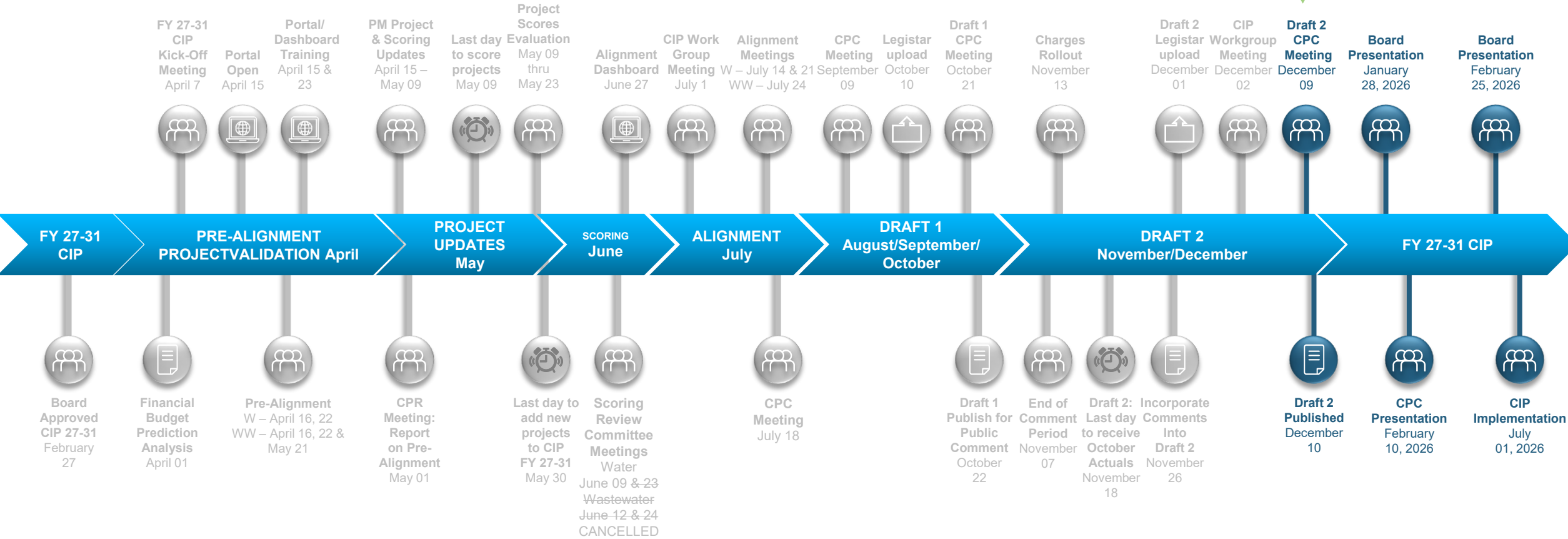
- 💧 Published December 10, 2025
- 💧 Reflects
  - 💧 FY 2025 actuals as of September 30, 2025
  - 💧 Project Managers updates as of October 24, 2025
  - 💧 Miscellaneous quality review updates
- 💧 Wastewater and Water Systems
  - 💧 Reflects forecast of the System's overall needs (in consideration with GLWA's 10-year financial plan)
  - 💧 A Capital Spend Ratio (CSR) is proposed to mitigate the impacts of potential project complexities and resource limitations (Vendors and GLWA)

## 💧 Ready to move to the next approval stage

# FY 2027-2031 ROAD MAP- HOW WE GOT HERE



We Are Here



CPC – Capital Planning Committee | CIP – Capital Improvement Plan | CPR – Capital Program Review  
PM – Project Manager | ELT – Executive Leadership Team | FY – Fiscal Year



# DISCUSSION DRAFT #1 FEEDBACK



CIP Delivery Team

# FEEDBACK SUMMARY ON DISCUSSION DRAFT #1

- 💧 **Document: FY 2027-2031 CIP Discussion Draft #1**
- 💧 **FY 2027-2031 CIP Discussion Draft #1 Released October 21, 2025**
- 💧 **Public Comments Due November 7, 2025**
- 💧 **Meetings with Directors on November 10 and 17, 2025**
- 💧 **Overall positive feedback FY 2027-2031 CIP Discussion Draft 1**
- 💧 **2 comments received during the comment period**

# PUBLIC COMMENT – 1

From : **Sally Petrella** from [therouge.org](https://therouge.org)

## Comment Summary:

*How are the 56 untreated CSO outfalls being addressed? You are only allocating \$8171 to the Long Term CSO Control Plan and only through 2026 so how will any progress be made in reducing the amount of sewage being regularly discharged into our waterways?"*

## GLWA Response Summary:

GLWA is currently working with the Army Corps of Engineers on the Southeast Michigan Flooding Resilience Study and Michigan Department of Environment, Great Lakes, and Energy (EGLE) on our next National Pollution Discharge Elimination System (NPDES) Discharge Permit. This may include specific identification of long term combined sewer overflow (CSO) mitigation as informed by the flooding resiliency study. Once this final path is understood, GLWA will update the CIP plan as appropriate to reflect these permit requirements and/or the projects as identified in the flooding resiliency study.



# PUBLIC COMMENT – 2A



From : **Timothy Hawkins**, Director of Public Works and Facilities from Dearborn Department Of Public Works

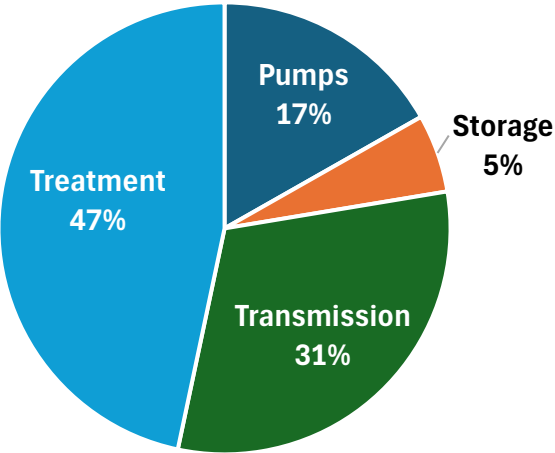
### Comment Summary:

Concerns about number of proposed projects for the treatment plants vs transmission system. Funds for the transmission system seemed to be directed to counties other than Wayne County.

### GLWA Response Summary

- Linear System Integrity Program (LSIP) is a relatively new program (4 yrs). Prior to that time, a proactive condition assessment was not implemented.
- Currently, the LSIP focus is performing condition assessments of approximately 20 miles of Prestressed Concrete Cylinder Pipe (PCCP) transmission main per year because PCCP failed more catastrophically than other types of mains, these areas were prioritized higher.
- On October 8, 2025, a presentation was made to the GLWA Board of Directors discussing options for a more comprehensive transmission main renewal strategy with the intent of explaining the need for additional funding to expand the program. The expansion of this program is currently being considered and is not included in the CIP at this time.

FY2027-2031 Water System CIP By Type



FY2027-2031 Water System Transmission CIP By Location

Location	FY 2027-2031	Percent
Wayne County - Outside Detroit	66,173,521	19.10%
Wayne County-City of Detroit	39,415,677	11.38%
Macomb County	2,609,889	0.75%
Multiple Counties	223,295,174	64.46%
Oakland County	14,929,080	4.31%
Grand Total	346,423,341	100.00%





# PUBLIC COMMENT – 2B

*From : **Timothy Hawkins**, Director of Public Works and Facilities from Dearborn Department Of Public Works*

## **Comment Summary:**

*Over the past year there have been breaks on the transmission system (Southwest Detroit and Novi). We do not hear GLWA proposing any type of inspection of the existing transmission system especially those mains located in the neighborhoods and based on the age.*

## **GLWA Response Summary:**

*Because of the recently experienced new failure mode on PCCP and the significant human suffering that occurred, GLWA has reacted in three primary ways:*

- 💧 *Updated GLWA's Risk Methodology*
- 💧 *Identified Similar Transmission Mains*
- 💧 *Developed a More Robust Renewal Strategy*

*GLWA shares your thoughts that the aging transmission mains need a robust and programmatic renewal program, and we are seeking additional funding from a variety of sources for that purpose.*



# FY 2027-2031 DISCUSSION DRAFT #2

## CHANGES SINCE DISCUSSION DRAFT #1



# FY 2027-2031 CIP DISCUSSION DRAFT 2 MODIFICATIONS

## 💧 New in DRAFT #2

### 💧 Realtime updates:

- 💧 Incorporated actuals as of September 30, 2025
- 💧 Project cost and schedule updates as of October 24, 2025

### 💧 New document cover

- 💧 **Mark Blossfeld** - CIP Project # 170802 - Reservoir Inspection, Design, and Construction Management Services Phase II
- 💧 **Greg Marker** - CIP Project # 260210 - Rehabilitation of GLWA Sewers; Ashland Relief, Linwood, Lonyo, Second Avenue, and Shiawassee

### 💧 Acknowledgment pages

### 💧 Miscellaneous quality review updates



# FY 2027-2031 CIP DISCUSSION DRAFT 2 MODIFICATIONS



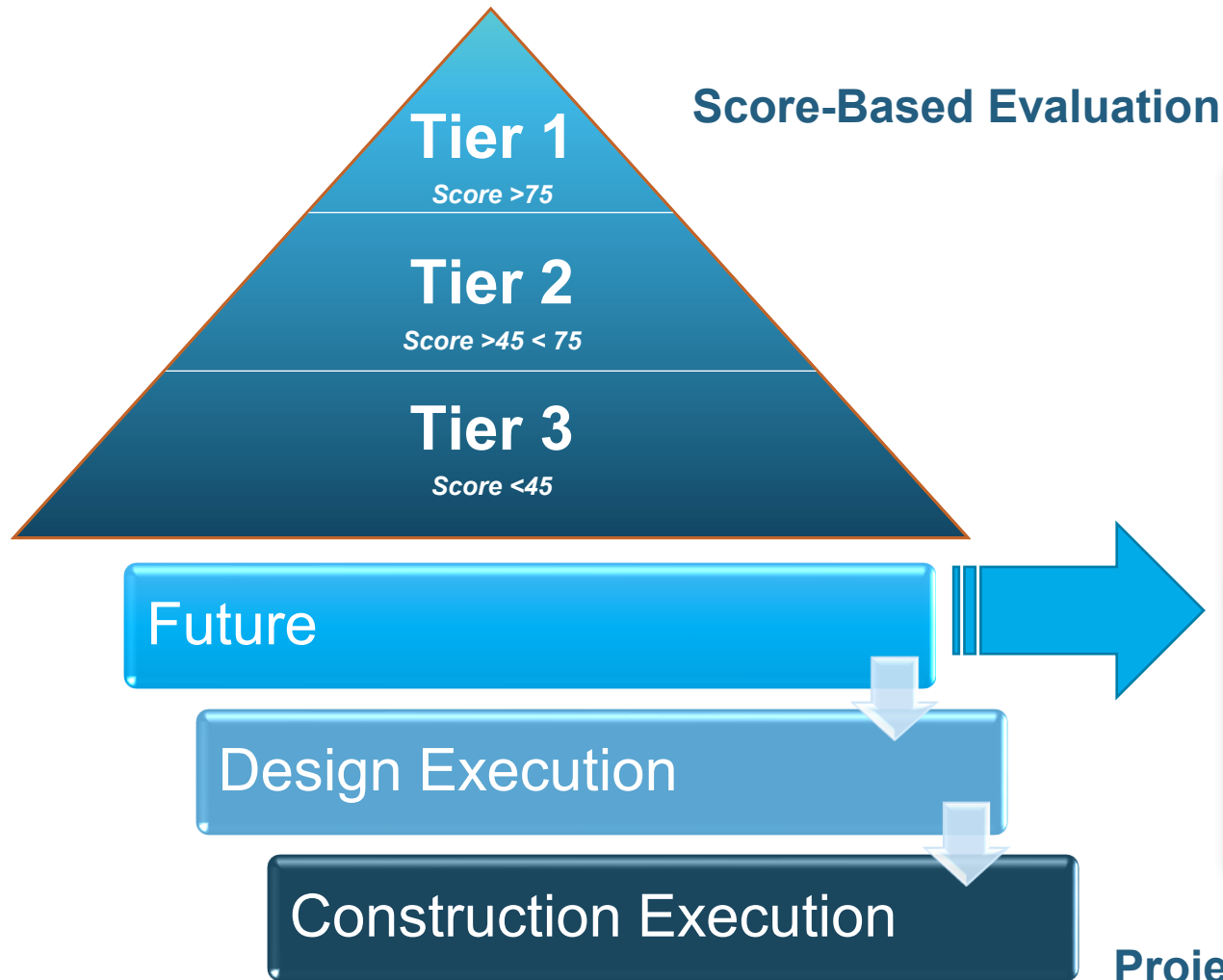
## NEW IN DRAFT #2

New emergency projects: *(to be scored by the scoring Committee next year if warranted )*

CIP #	Title	Project Manager	Start Date	End Date	Budget FY 26	Budget FY 27-31	PM Score
216013	WRRF Utility Power Replacement	Chris Nastally	01/01/2026	12/29/2028	\$1,243,893	\$9,487,357	98.6
170608	14 Mile Road Emergency Response & Condition Assessment	Olivia Olsztyn-Budry	08/26/2025	04/30/2026	\$17,200,000	\$0	98.1
170609	Pipe Group 394, 42-inch, Marquette, Garden City Condition Assessment	Olivia Olsztyn-Budry	01/01/2026	04/30/2028	\$337,244	\$2,389,756	31.9



# FY 2027-2031 CIP PRIORITIZATION



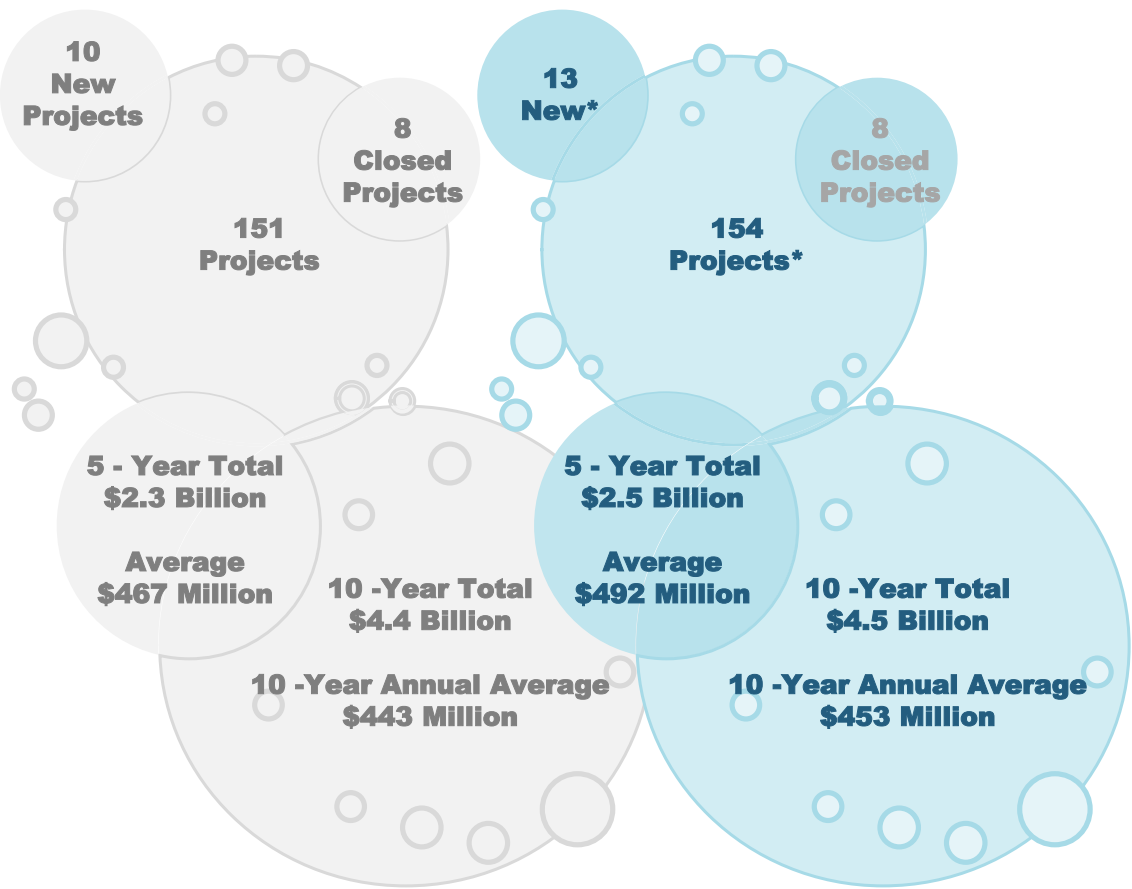
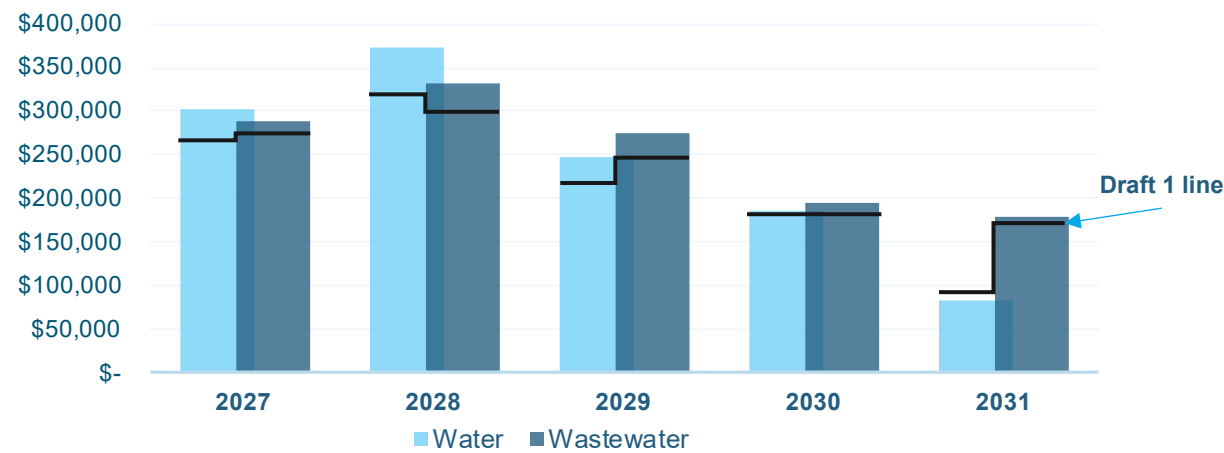
- Holistic Decision Factors
  - Predecessor Projects
  - Delivery Flexibility
  - Funding Source
  - Financial Plan
  - Proactive Planning
  - Constructability
  - Operational Considerations
  - Efficient Resource Allocation
  - Integrated Asset Management



# FY 2027-2031 DISCUSSION DRAFT 2 - CIP AT A GLANCE



## 5-Year Outlook



	WATER		WASTEWATER	
	DRAFT 1	DRAFT 2	DRAFT 1	DRAFT 2
5-Year Total	\$1,119,593	\$1,191,063	\$1,216,736	\$1,268,361
5-Year Average	\$223,919	\$238,213	\$243,347	\$253,627
10-Year Total	\$2,267,212	\$2,315,662	\$2,158,831	\$2,211,008
10-Year Average	\$226,721	\$231,566	\$215,883	\$221,101

Financial figures in \$1,000s and rounded

\*Based on September 30, 2025, actuals and PM cost and schedule updates as of October 24, 2025  
\*\*3 New Emergency projects added



# WATER FY 2027 - 2031 CIP SUMMARY

CIP Document	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	5-Year Total
Draft 1 Water CIP FY 2027-2031	<b>\$183,743</b>	\$277,274	\$333,737	\$227,589	\$186,974	\$94,019	\$1,119,593
Draft 2 Water CIP FY 2027-2031		<b>\$302,768</b>	<b>\$372,646</b>	<b>\$246,750</b>	<b>\$186,818</b>	<b>\$82,080</b>	<b>\$1,191,063</b>
Difference \$		\$25,494	\$38,909	\$19,161	(\$156)	(\$11,938)	\$71,470
Difference %		9.19%	11.66%	8.42%	-0.08%	-12.70%	6.38%

	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	5-Year Avg
Proposed CSR % Draft 1	100%	95%	90%	100%	100%	100%	97%
Proposed CSR % Draft 2	<b>100%</b>	<b>87%</b>	<b>81%</b>	<b>93%</b>	<b>100%</b>	<b>100%</b>	<b>92%</b>

Financial Plan	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	5-Year Total
Draft 1 Water CIP FY 2027-2031 with CSR		\$263,410	\$300,363	\$227,589	\$186,974	\$94,019	\$1,072,355
Draft 2 Water CIP FY 2027-2031 with CSR		<b>\$263,409</b>	<b>\$301,843</b>	<b>\$229,477</b>	<b>\$186,818</b>	<b>\$82,080</b>	<b>\$1,063,628</b>
Difference with CSR \$		(\$1)	\$1,480	\$1,888	(\$156)	(\$11,939)	(\$8,727)

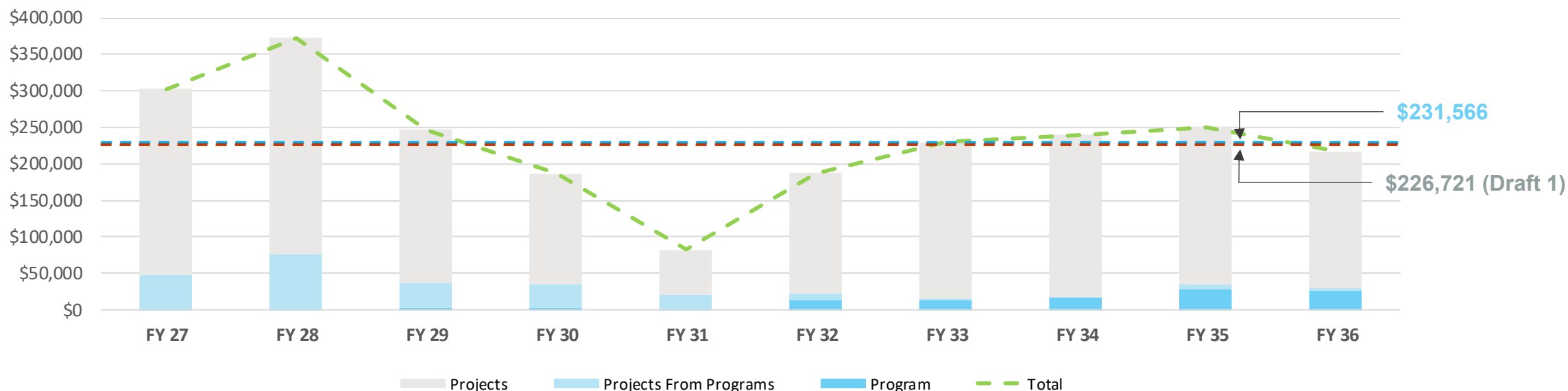
Financial figures in \$1,000s and rounded

# DRAFT 1 VS DRAFT 2 CHANGES - WATER

- 💧 **CIP 122021** : Grosse Pointe Woods - Harper Woods 24" Main. Budget increased By **\$11M** for construction phase (**90% OPCC**).
- 💧 **CIP 132015** : Newburgh Road Booster Pumping Station Improvements. Budget increased by **\$3M** for construction phase (**90% OPCC**).
- 💧 **CIP 170601** : Linear System Integrity Program - Contract 1. Budget increased by **\$1M (re-baseline)**.
- 💧 **CIP 170603** : 84"/72" Transmission Main Condition Assessment. **Delayed** by 1 Year. Increased FY26 by **\$6M**.
- 💧 **CIP 170802** : Reservoir Inspection, Design, and Construction Management Services Phase II. Budget increase by **\$25M (new scope)**.
- 💧 **CIP 170608** : 14 Mile Road Emergency Response & Condition Assessment. Added **\$17.2M** to FY 26 (**New Emergency CIP**).
- 💧 **CIP 170609** : Pipe Group 394, 42-inch, Marquette, Garden City Condition Assessment. Proposed **\$2.7M (Constructability opportunity)**.

# WATER FY 2027-2036 – 10-YEAR CIP OUTLOOK

Program Category	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36
Program	\$0	\$518	\$1,018	\$3,547	\$3,547	\$1,589	\$13,478	\$13,807	\$17,541	\$28,436	\$26,825
Projects	\$125,263	\$254,439	\$295,495	\$210,345	\$151,584	\$60,814	\$164,497	\$215,005	\$221,154	\$215,558	\$186,696
Projects From Programs	\$58,470	\$47,812	\$76,134	\$32,858	\$31,688	\$19,678	\$9,593	\$1,194	\$521	\$6,580	\$3,714
<b>Total</b>	<b>\$183,732</b>	<b>\$302,768</b>	<b>\$372,646</b>	<b>\$246,750</b>	<b>\$186,818</b>	<b>\$82,080</b>	<b>\$187,568</b>	<b>\$230,006</b>	<b>\$239,216</b>	<b>\$250,574</b>	<b>\$217,235</b>



~4.52% increase in 10-year average from FY 26-30 CIP (\$221,692)

Financial figures in \$1,000s and rounded

# WASTEWATER FY 2027 - 2031 CIP SUMMARY

CIP Document	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	5-Year Total
Draft 1 Water CIP FY 2027-2031		\$280,901	\$312,648	\$257,620	\$188,294	\$177,273	\$1,216,736
Draft 2 Water CIP FY 2027-2031	\$262,279	\$287,641	\$330,945	\$274,411	\$195,686	\$179,678	\$1,268,361
Difference \$		\$6,740	\$18,296	\$16,791	\$7,393	\$2,406	\$51,626
Difference %		2.40%	5.85%	6.52%	3.93%	1.36%	4.24%

	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	5-Year Avg
Proposed CSR % Draft 1	90%	90%	89%	91%	97%	100%	90%
Proposed CSR % Draft 2	90%	88%	84%	85%	94%	100%	90%

Financial Plan	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	5-Year Total
Draft 1 Water CIP FY 2027-2031 with CSR		\$252,811	\$278,257	\$234,434	\$182,645	\$177,273	\$1,125,419
Draft 2 Water CIP FY 2027-2031 with CSR		\$253,124	\$277,994	\$233,249	\$183,945	\$179,678	\$1,127,990
Difference with CSR \$		\$313	(\$263)	(\$1,185)	\$1,300	\$2405	\$2,571

Financial figures in \$1,000s and rounded



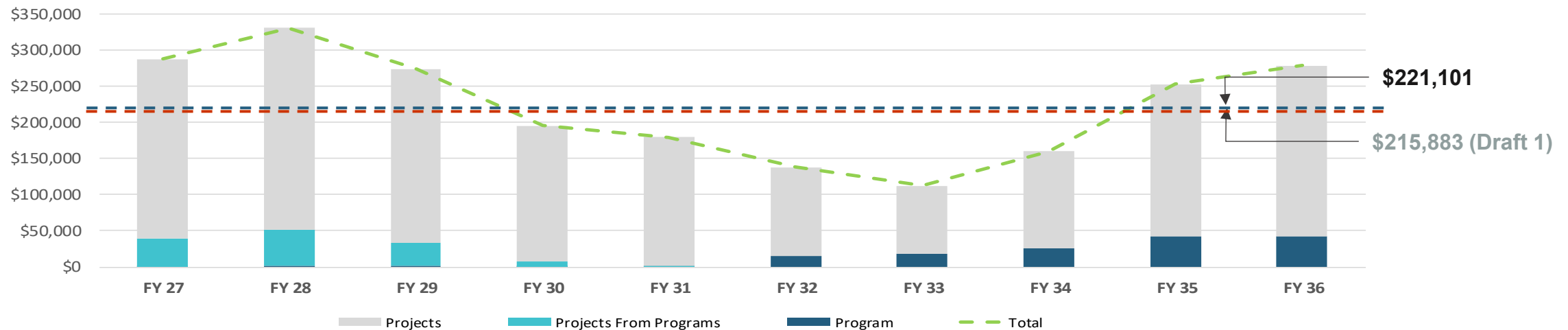
# Draft1 vs Draft2 Changes - WASTEWATER

- 💧 CIP **211006**: WRRF PS No. 1 Improvements : Delayed due to contractor challenges. Budget impact to **\$1.1M** for CIP FY27-31
- 💧 CIP **216008**: Rehabilitation of Screened Final Effluent (SFE) Pump Station : Delayed Construction phase due to inclusion of SRF requirements, Budget impact to **\$7.4M** for CIP FY27-31
- 💧 CIP **270004**: Oakwood and Leib CSO Facilities Improvement Project : Budget increased with Bid Award By **\$5.9 M**
- 💧 CIP **270006**: CSO Facilities Improvements II : Delayed Construction phase due to inclusion of SRF requirements, Budget impact to **\$3.2M** for CIP FY27-31
- 💧 CIP **261001**: WRRF Rehabilitation of the Secondary Clarifiers Phase 1: **\$28M** impact ( **Budget /PO Adjustment** )

# WASTEWATER FY 2027-2036 – 10-YEAR CIP OUTLOOK



Program Category	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35	FY 36
Program	\$0	\$115	\$2,168	\$2,162	\$15	\$515	\$14,589	\$18,214	\$25,990	\$42,753	\$42,172
Projects	\$202,031	\$248,513	\$279,593	\$240,582	\$188,796	\$177,478	\$123,369	\$94,155	\$133,905	\$210,481	\$237,019
Projects From Programs	\$60,166	\$39,014	\$49,184	\$31,668	\$6,876	\$1,686	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$262,197</b>	<b>\$287,641</b>	<b>\$330,945</b>	<b>\$274,411</b>	<b>\$195,686</b>	<b>\$179,678</b>	<b>\$137,958</b>	<b>\$112,368</b>	<b>\$159,895</b>	<b>\$253,234</b>	<b>\$279,192</b>



~4.7% increase in 10-year average from FY 26-30 CIP (\$211,283)

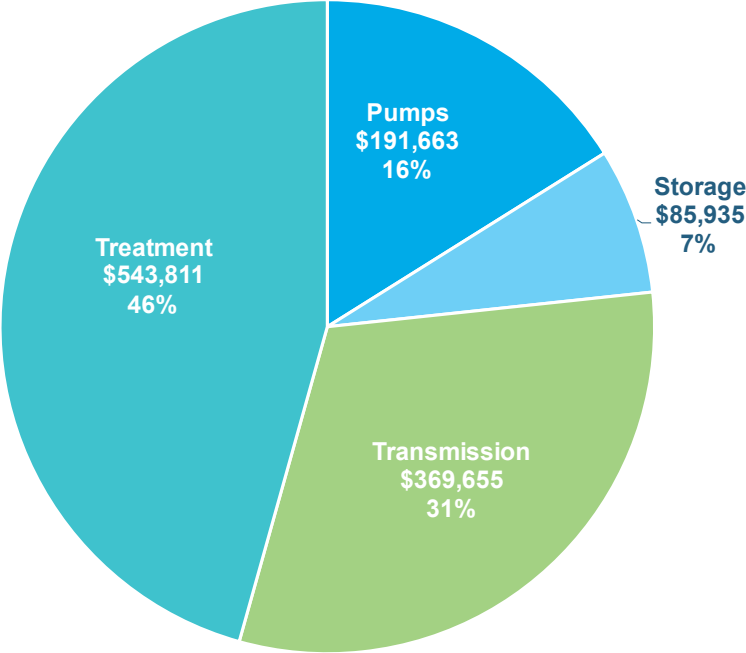
Financial figures in \$1,000s and rounded



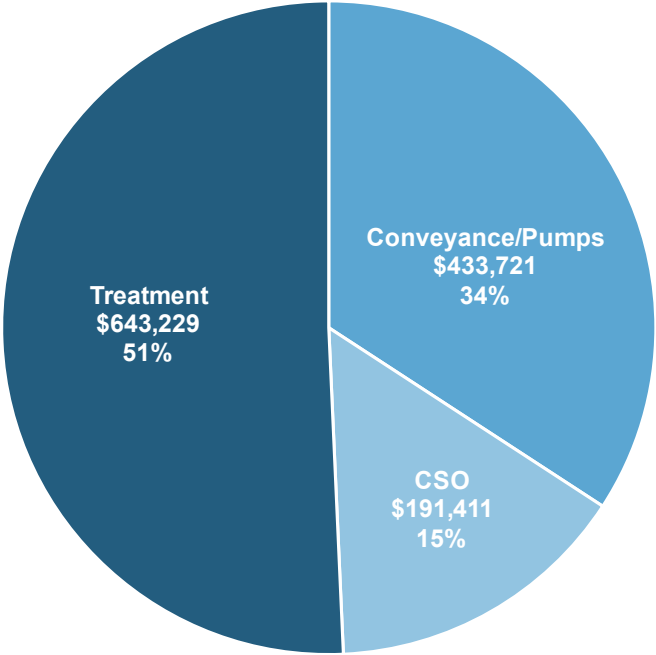
CIP – Capital Improvement Plan | FY – Fiscal Year

# FY 2027-2031 CIP STATISTICS – BY FUNCTION

WATER 5-YEAR



WASTEWATER 5-YEAR

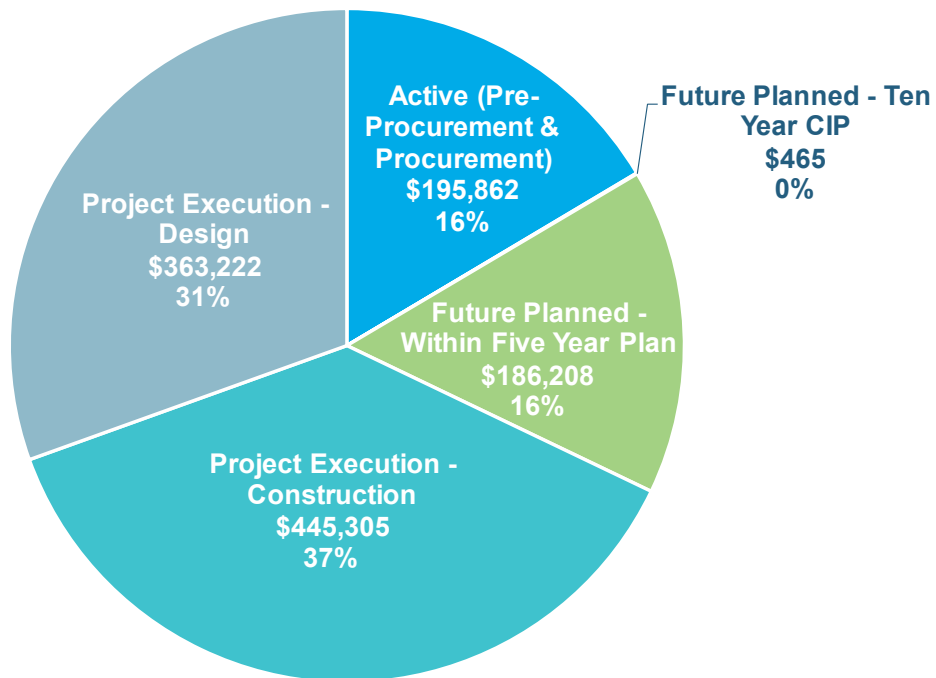


Financial figures in \$1,000s and rounded

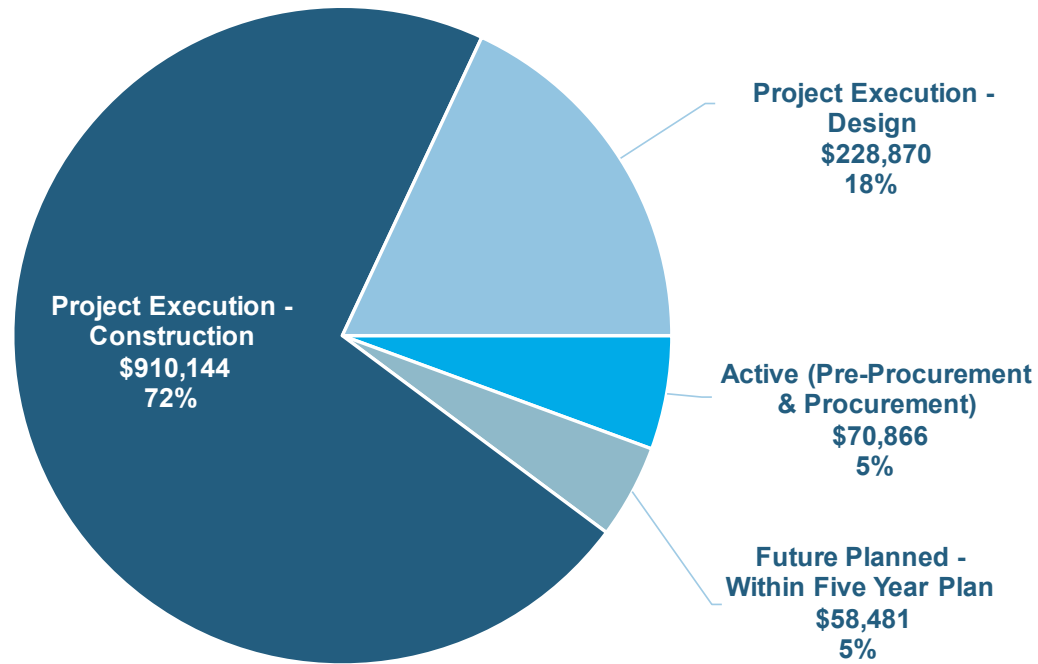
# FY 2027-2031 CIP STATISTICS – BY PROJECT STATUS



WATER 5-YEAR



WASTEWATER 5-YEAR



Financial figures in \$1,000s and rounded

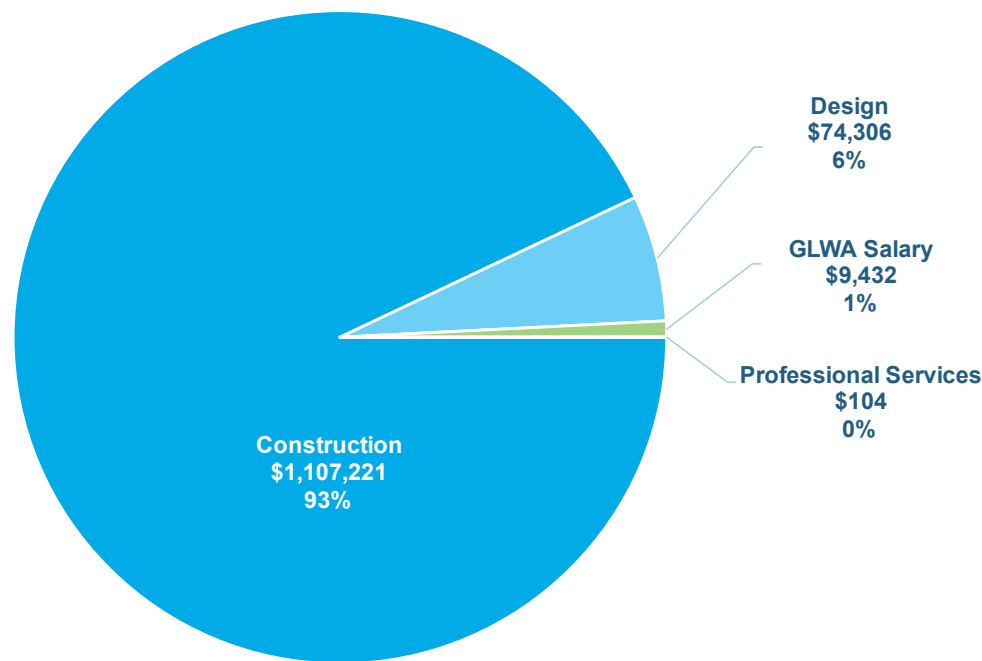


CIP – Capital Improvement Plan | FY – Fiscal Year

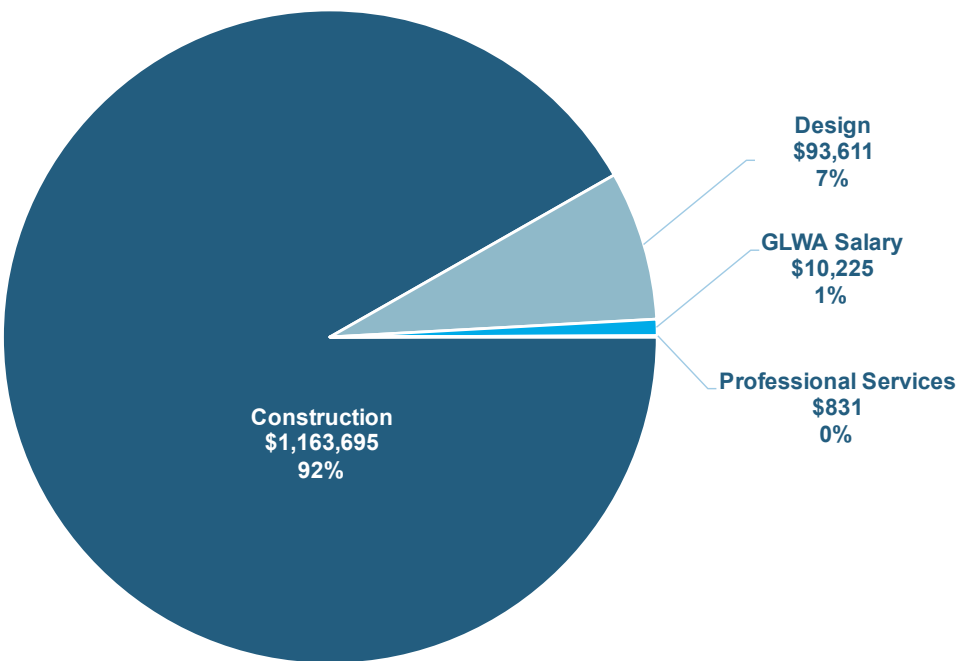
# FY 2027-2031 CIP STATISTICS – BY SPEND CATEGORY



WATER 5-YEAR



WASTEWATER 5-YEAR



Financial figures in \$1,000s and rounded



CIP – Capital Improvement Plan | FY – Fiscal Year



# CIP PUBLIC DASHBOARD



CIP Delivery Team

# CIP PUBLIC DASHBOARD

- 💧 CIP public facing dashboard
- 💧 Reflects current CIP document
- 💧 Applies filters to derive at data



**GLWA**  
Great Lakes Water Authority

Careers Financials Assistance Contact Login

ABOUT OUR SYSTEM MEMBERS VENDORS INVESTOR RELATIONS

**CAPITAL IMPROVEMENT VIEWER**

**CAPITAL IMPROVEMENT VIEWER**

**CIP PUBLIC DASHBOARD**

**CLICK HERE**

**CAPITAL IMPROVEMENT PLAN - DISCUSSION DRAFT #1 2026-2030**

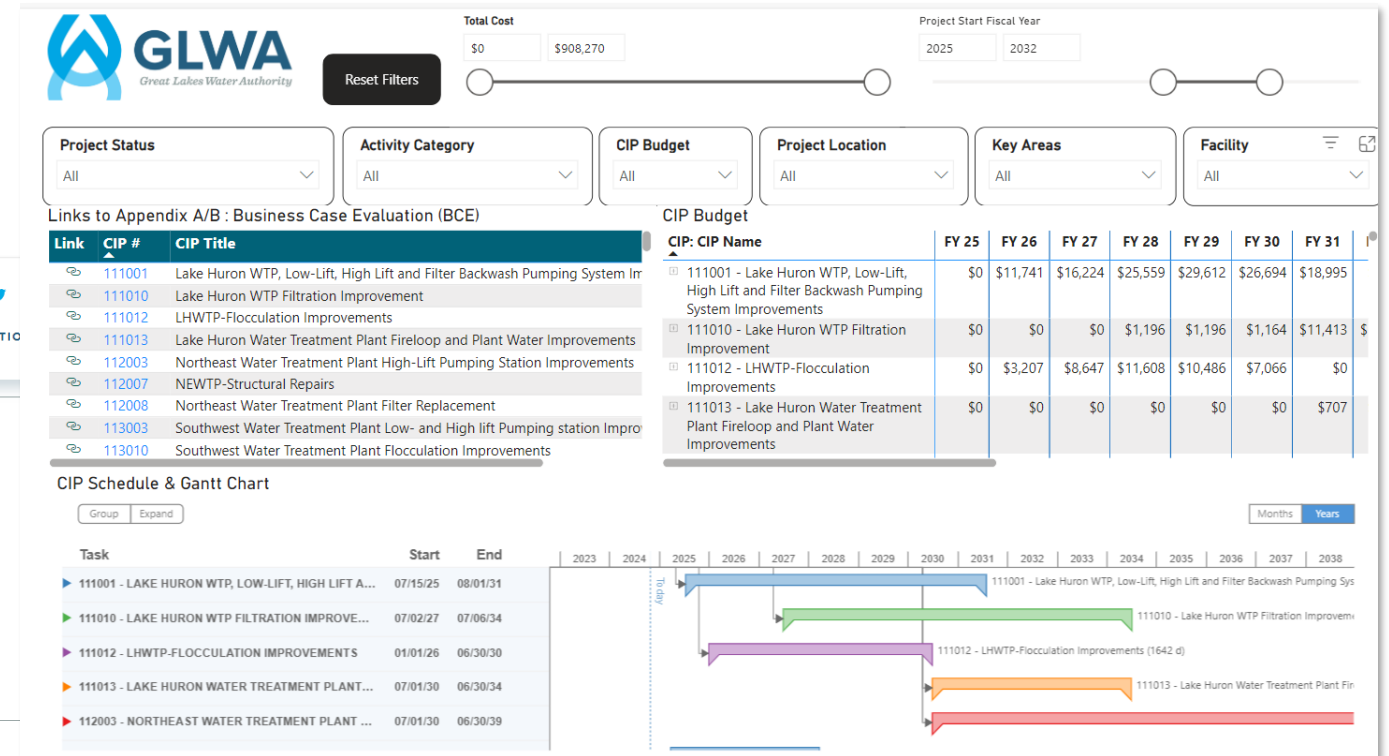
Download the Discussion Draft #1 Capital Improvement Plan (CIP) 2026 - 2030 for a look at GLWA's plans for maintaining and improving the regional system.

**CIP Report FY26-30 - Discussion Draft 1**

**CIP FY26-30 - Appendix A**

**CIP FY26-30 - Appendix B**

**CIP FY26-30 - Appendix C**



**GLWA**  
Great Lakes Water Authority

Total Cost: \$0 to \$908,270

Project Start Fiscal Year: 2025 to 2032

Reset Filters

Project Status: All

Activity Category: All

CIP Budget: All

Project Location: All

Key Areas: All

Facility: All

Links to Appendix A/B : Business Case Evaluation (BCE)

Link	CIP #	CIP Title
<a href="#">111001</a>	111001	Lake Huron WTP, Low-Lift, High Lift and Filter Backwash Pumping System Improvements
<a href="#">111010</a>	111010	Lake Huron WTP Filtration Improvement
<a href="#">111012</a>	111012	LHWTP-Flocculation Improvements
<a href="#">111013</a>	111013	Lake Huron Water Treatment Plant Fireloop and Plant Water Improvements
<a href="#">112003</a>	112003	Northeast Water Treatment Plant High-Lift Pumping Station Improvements
<a href="#">112007</a>	112007	NEWTP-Structural Repairs
<a href="#">112008</a>	112008	Northeast Water Treatment Plant Filter Replacement
<a href="#">113003</a>	113003	Southwest Water Treatment Plant Low- and High lift Pumping station Improvements
<a href="#">113010</a>	113010	Southwest Water Treatment Plant Flocculation Improvements

**CIP Budget**

CIP: CIP Name	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31
111001 - Lake Huron WTP, Low-Lift, High Lift and Filter Backwash Pumping System Improvements	\$0	\$11,741	\$16,224	\$25,559	\$29,612	\$26,694	\$18,995
111010 - Lake Huron WTP Filtration Improvement	\$0	\$0	\$0	\$1,196	\$1,196	\$1,164	\$11,413
111012 - LHWTP-Flocculation Improvements	\$0	\$3,207	\$8,647	\$11,608	\$10,486	\$7,066	\$0
111013 - Lake Huron Water Treatment Plant Fireloop and Plant Water Improvements	\$0	\$0	\$0	\$0	\$0	\$0	\$707

**CIP Schedule & Gantt Chart**

Group Expend

Months Years

Task	Start	End
111001 - LAKE HURON WTP, LOW-LIFT, HIGH LIFT A...	07/15/25	08/01/31
111010 - LAKE HURON WTP FILTRATION IMPROVE...	07/02/27	07/06/34
111012 - LHWTP-FLOCCULATION IMPROVEMENTS	01/01/26	06/30/30
111013 - LAKE HURON WATER TREATMENT PLANT...	07/01/30	06/30/34
112003 - NORTHEAST WATER TREATMENT PLANT ...	07/01/30	06/30/39

CIP - GLWA  
Microsoft Power BI (powerbigov.us)



# RECAP & NEXT STEPS

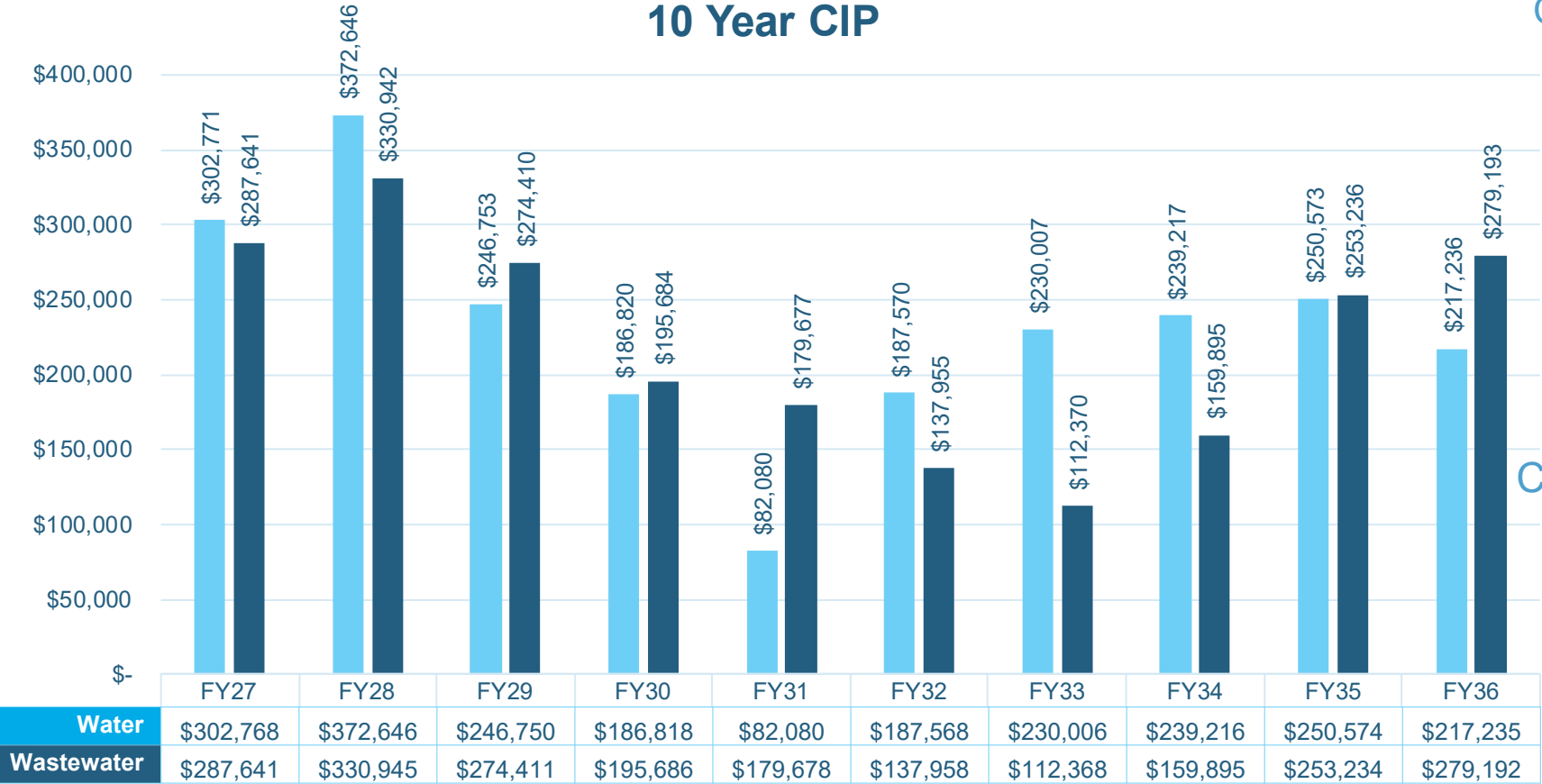


CIP Delivery Team

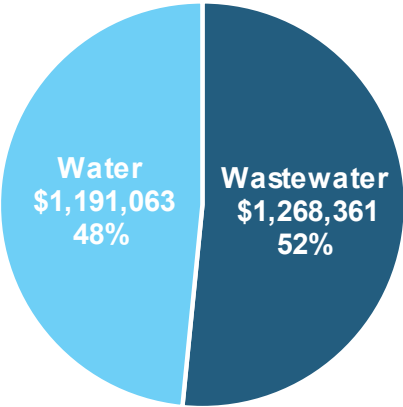
# WATER & WASTEWATER CIP FY 2027 - 2036

## (10 YEAR PROJECTIONS)

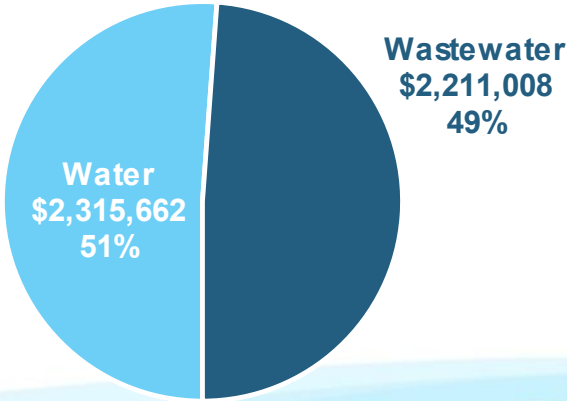
10 Year CIP



CIP FY 27-31 (5 Year) By System

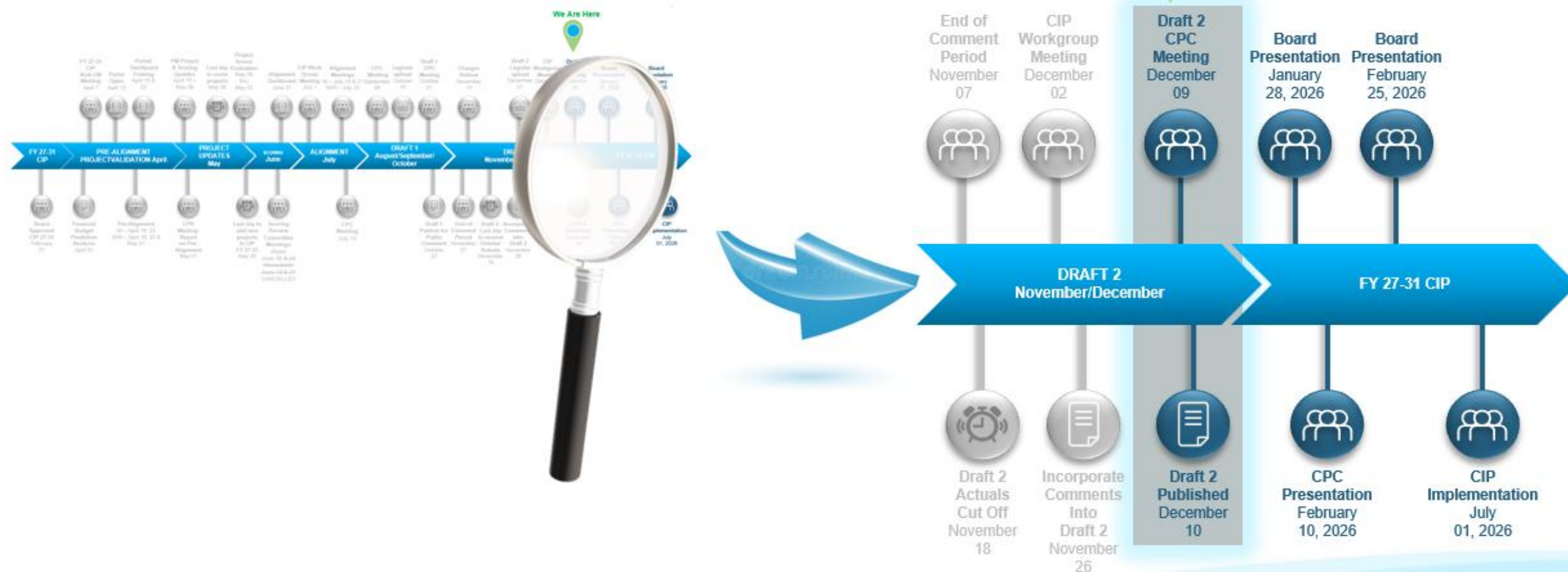


CIP FY 27-36 (10 Year) By System



Financial figures in \$1,000s and rounded

# FY 2027-2031 ROADMAP- WHAT'S NEXT





# KEY TAKEAWAYS

## 💧 Discussion Draft # 1

- 💧 Presented to Capital Planning Committee (CPC) on October 21, 2025
- 💧 Public comment period on Draft 1 from Oct 22 - Nov 7, 2025 – 2 comments received

## 💧 Discussion Draft #2

- 💧 Published December 10, 2025
- 💧 Reflects
  - 💧 FY 2025 actuals as of September 30, 2025
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  - 💧 Reflects forecast of the System's overall needs (in consideration with GLWA's 10-year financial plan)
  - 💧 A Capital Spend Ratio (CSR) is proposed to mitigate the impacts of potential project complexities and resource limitations (Vendors and GLWA)

## 💧 Ready to move to the next approval stage

# QUESTIONS & THANK YOU



CIP Delivery Team