

# **Capital Improvements Program Budgeting (CSO/Storm Drainage/WWTP)**

## **Virtual Commission Presentation**

**May 5, 2020**

# Study Area

8<sup>th</sup> Avenue Basin

3<sup>rd</sup> Avenue Basin

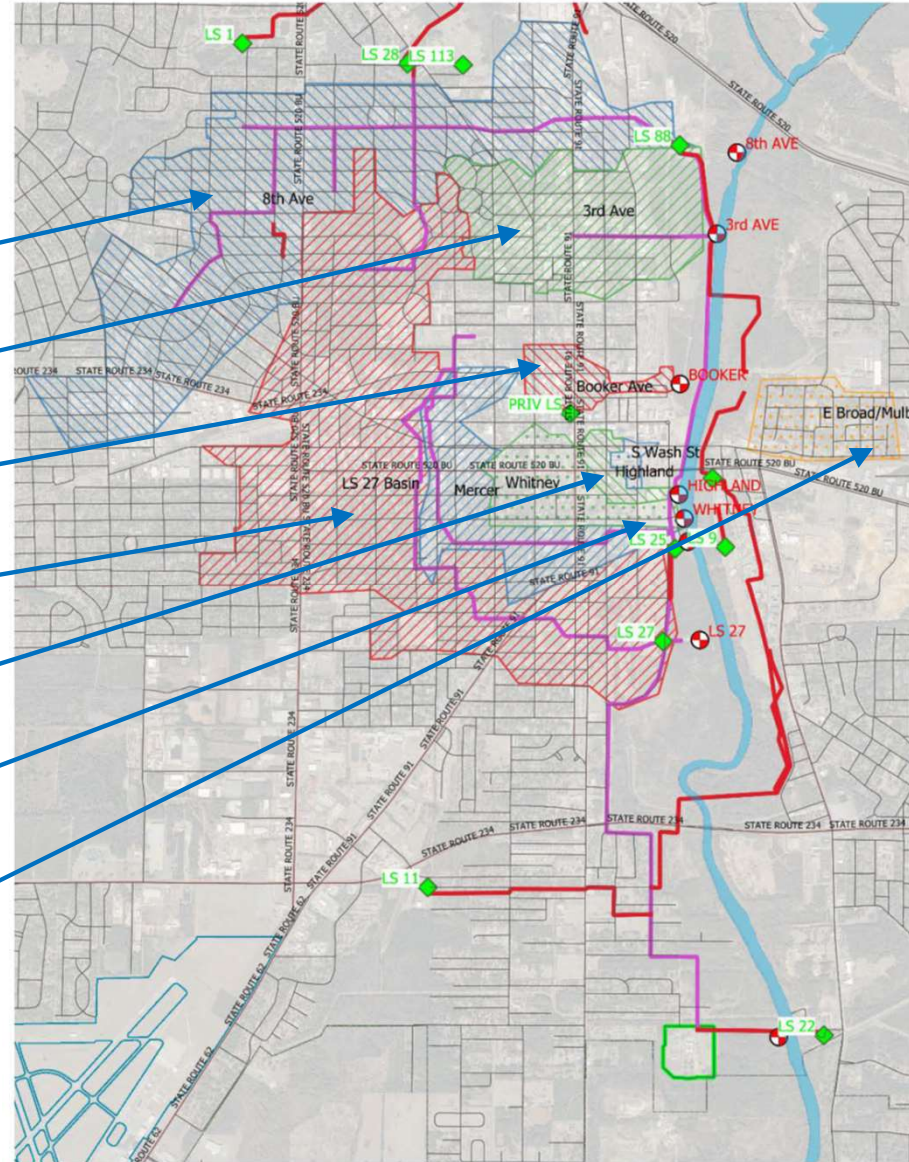
Booker Avenue Basin

LS27 Basin

Highland & Whitney

LS25/Mercer Basin

East Broad Avenue Basin

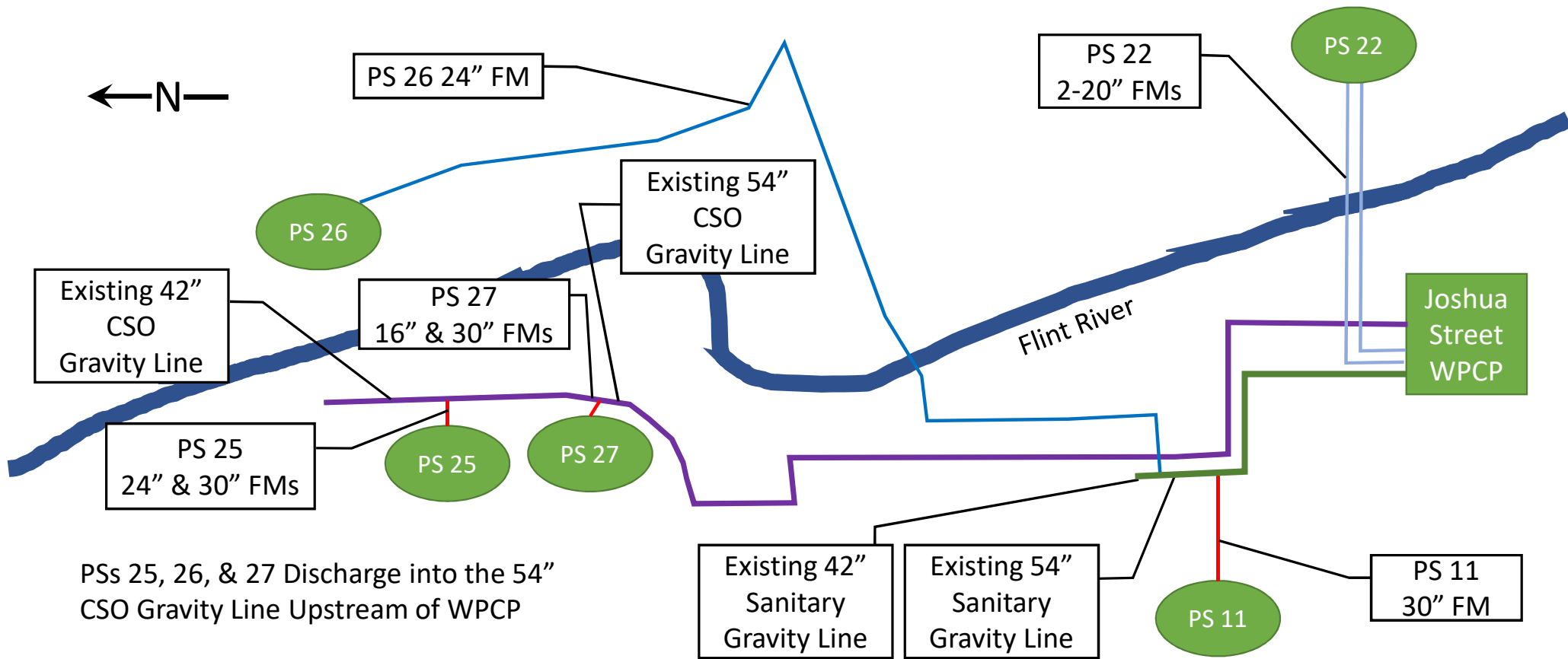


# Capital Improvements Program Preliminary Components (Staged Upgrade Approach)

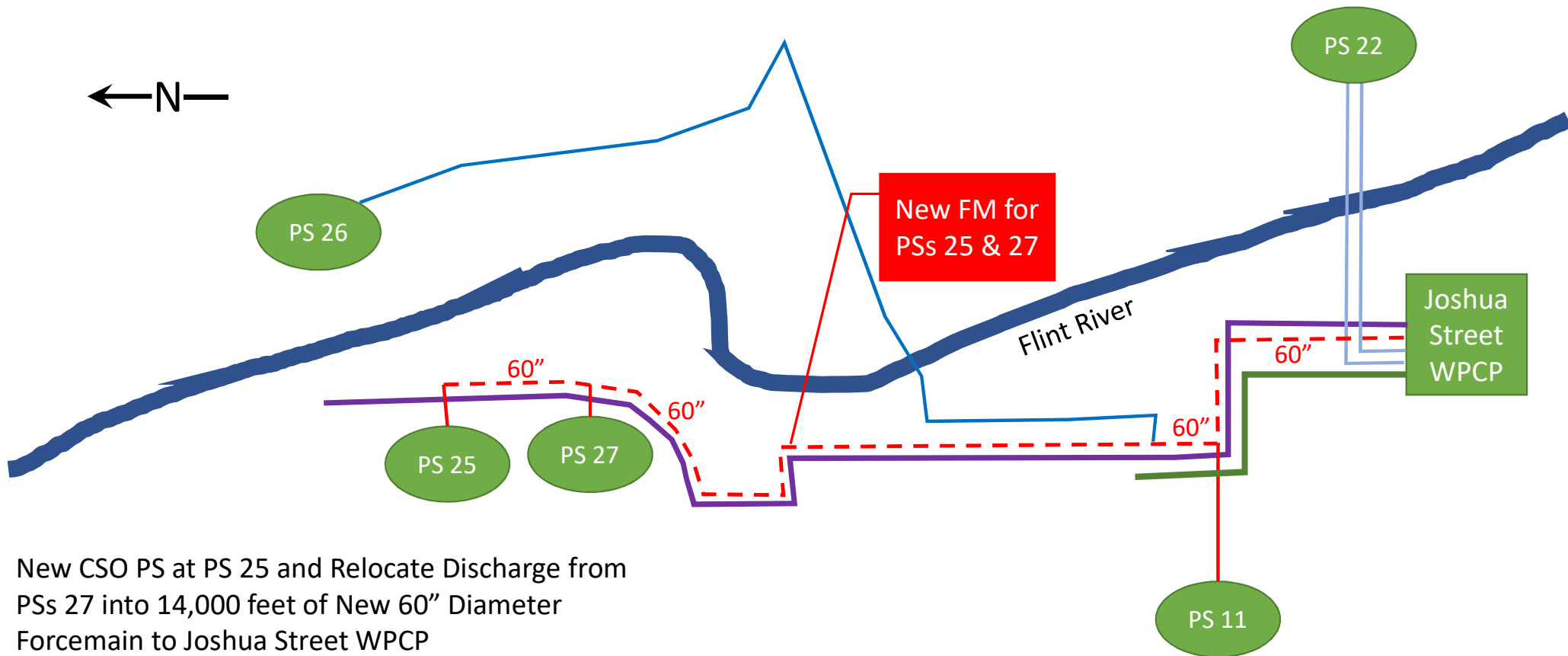
## Preliminary Components

1. New CSO Separation Project - Wastewater Forcemain/Major Pump Station
2. New CSO Treatment Facility at JSWPCP & 8th Ave
3. JSWPCP Improvements Project
4. JSWPCP Future Improvements Project
5. Improvements/Upgrade to the Existing Wastewater Pump Stations Program
6. Separation of Existing CSO/Wastewater Collection System Program
7. Inflow/Infiltration Reduction Program

# Albany's Existing Major Pump Stations and Conveyance to Joshua Street WPCP

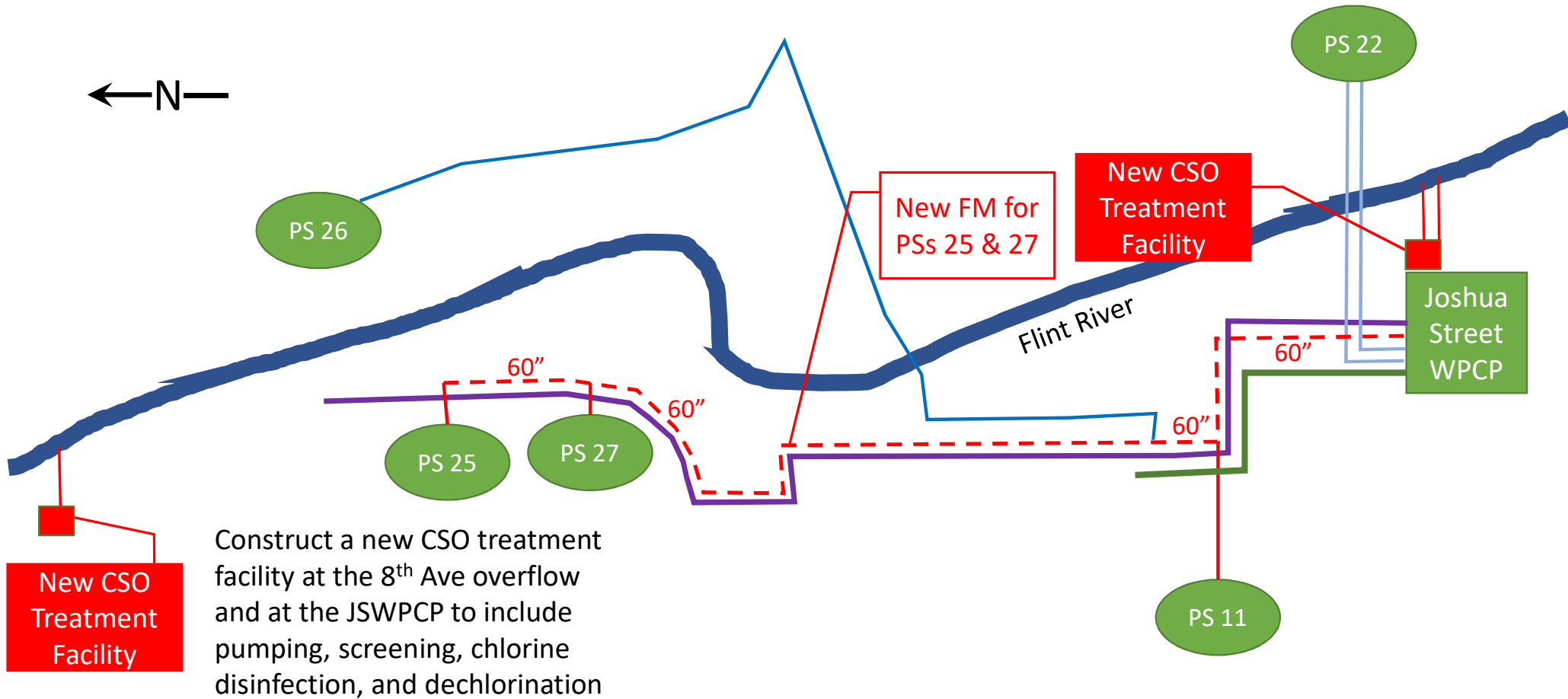


# Component 1 – New CSO Separation Project - Wastewater Forcemain/Major Pump Stations

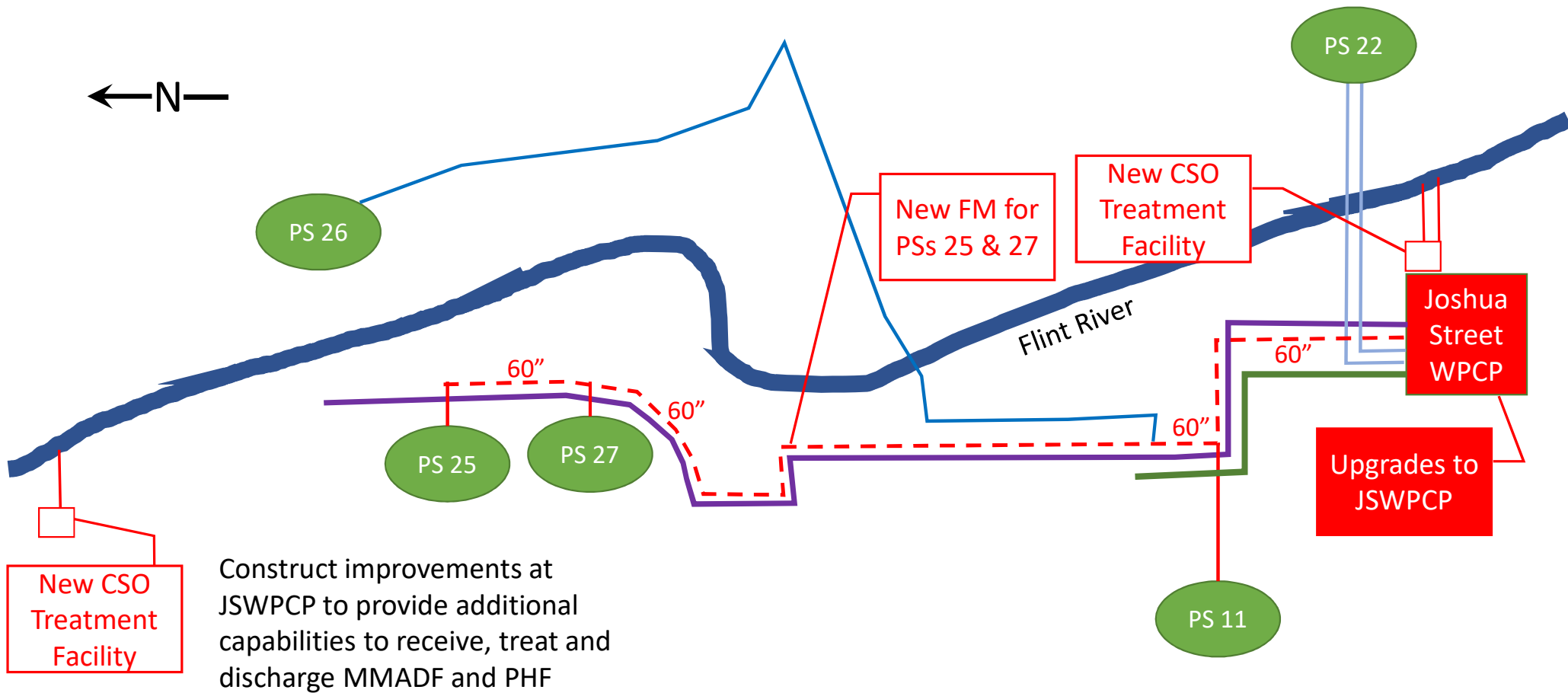


New CSO PS at PS 25 and Relocate Discharge from PSs 27 into 14,000 feet of New 60" Diameter Forcemain to Joshua Street WPCP

# Component 2 – New CSO Treatment Facility at JSWPCP & 8th Ave

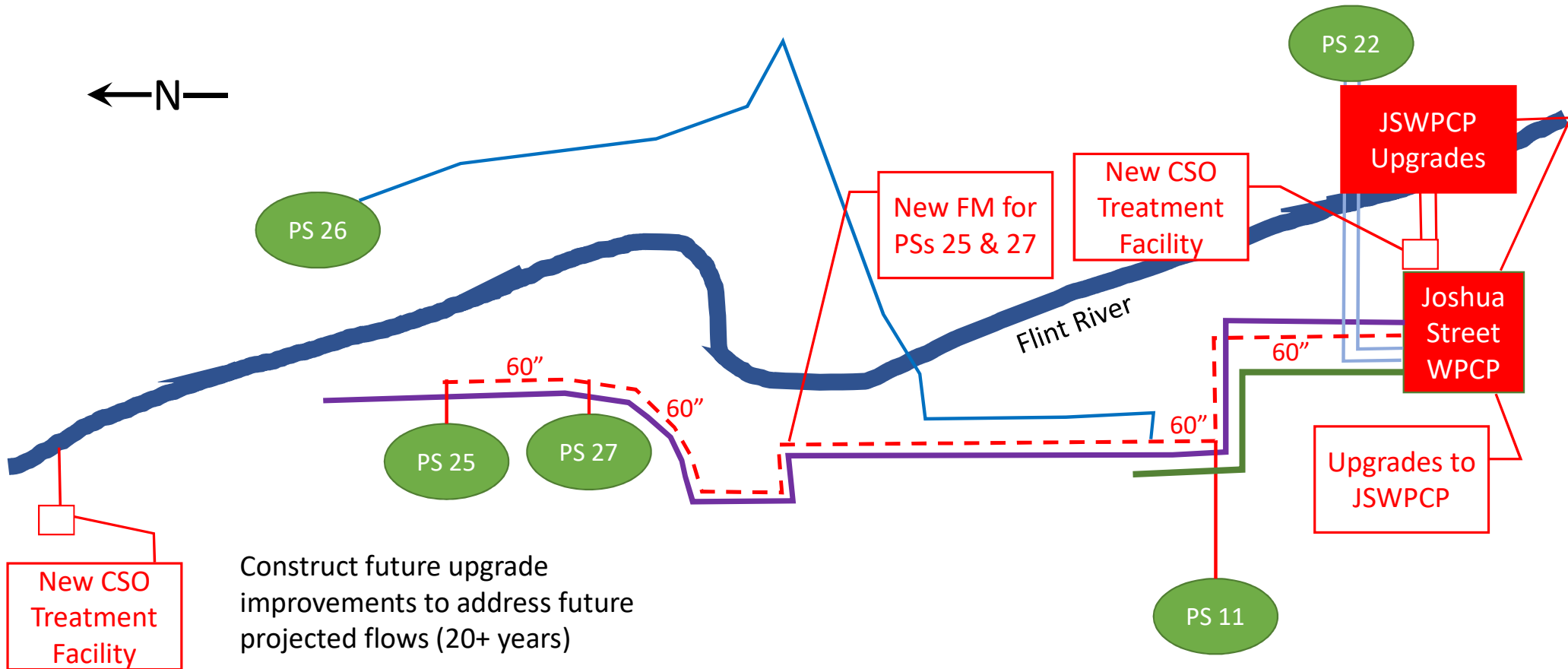


# Component 3 – JSWPCP Improvements Project

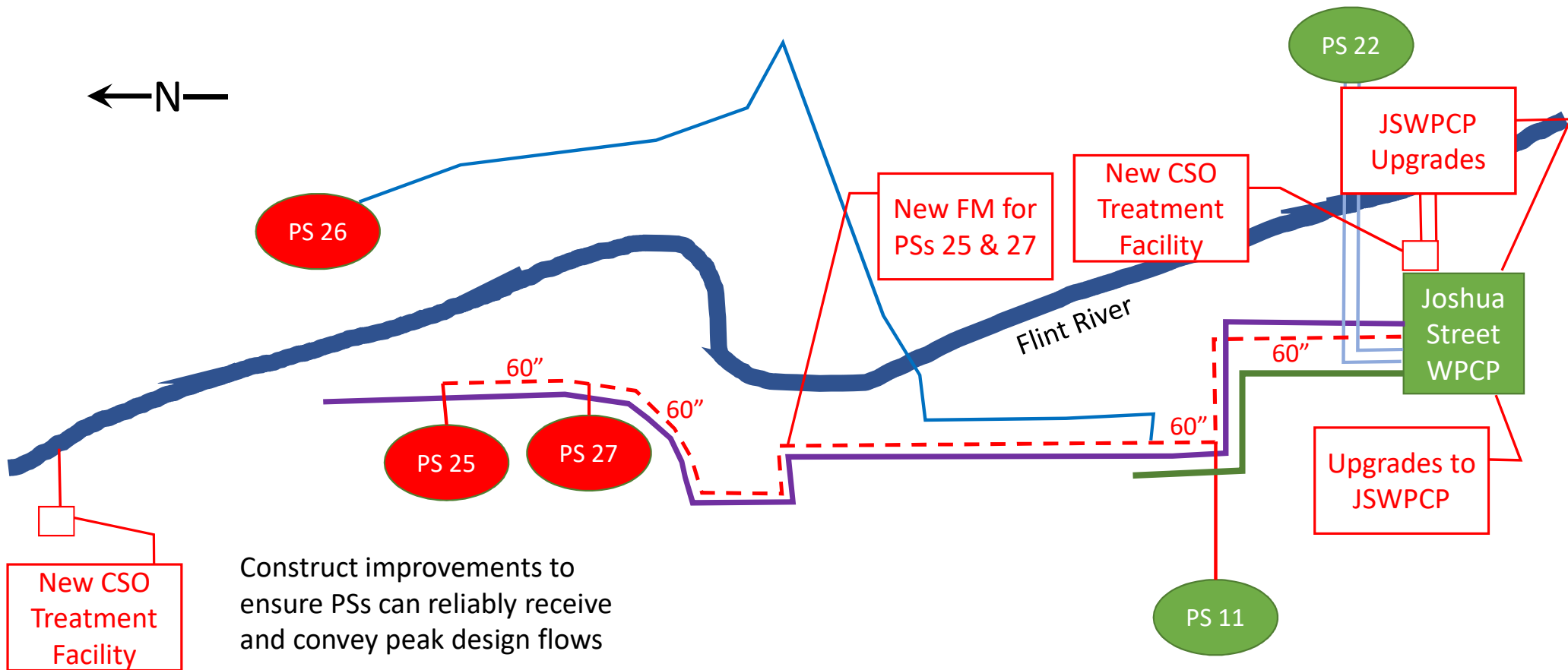




# Component 4 – JSWPCP Future Improvements Project

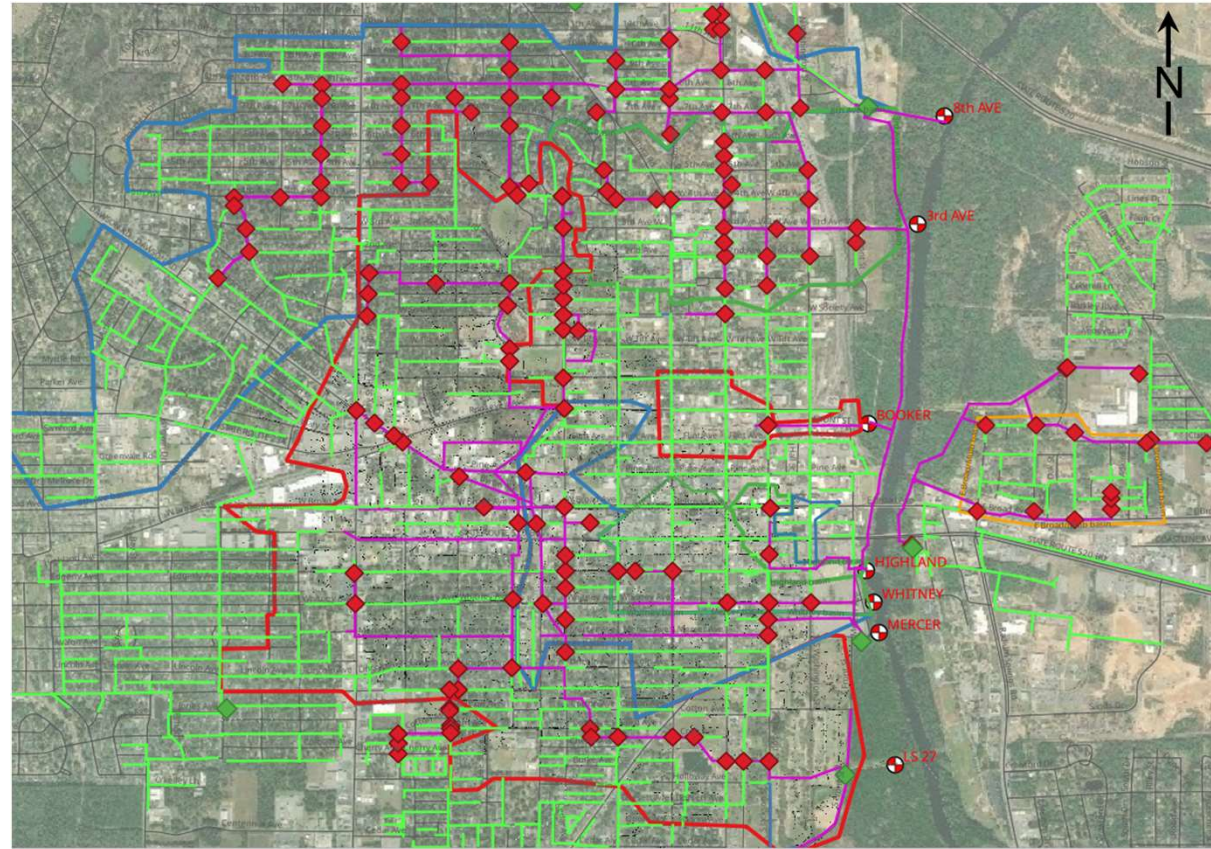


# Component 5 – Improvements/Upgrade to the Existing Wastewater Pump Stations Program



## Component 6 - Separation of Existing CSO/Wastewater Collection System Program

Perform improvements and modifications within the collection system to further separate wastewater and stormwater flows and reduce the amount of flooding, wastewater overflows and surcharges, and untreated CSO discharges to the river.

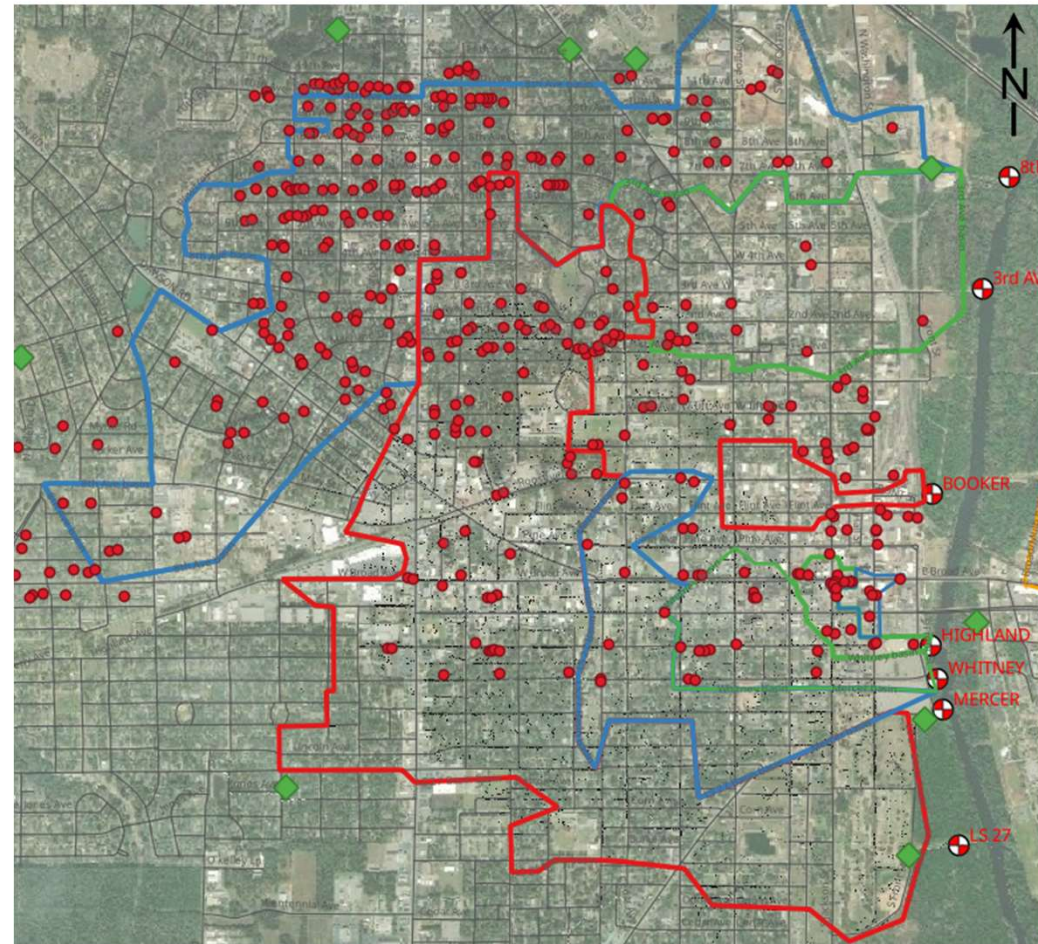


# Shovel Ready Stormwater Projects

Project	In Combined System Watershed	Status	Cost Estimate
Beattie Woods Pond (Bellingham)	No	Completed review Issued memo recommending project to be implemented No model developed	\$225,000
Shannon Holdings Pond	No	Developed model for review Need survey to complete model and review City collected survey; sent request for data	\$250,000
East Broad Separation	Yes	Created proposed model Presented findings in presentation on 3/26 Will draft memo recommending project to be implemented	\$970,000
Clarke Ave Outfall	Yes	Created proposed model Presented findings in presentation on 3/26 Will draft memo recommending project to be implemented	\$1,455,000
3 Oaks Pond Diversion	No	Have not started any review Have a copy of the study, but no plans. Located in NW part of town near Lake Loretta.	\$1,500,000
Camp Lane, Baldwin Drive and Greenvale Road	No	Have not started any review Have a copy of the study, but no plans. Located west of town just outside the combined system watershed	\$720,000
<b>TOTAL</b>			<b>\$5,120,000</b>

# Component 7 - Inflow/Infiltration Reduction Program

Perform improvements and modifications to reduce the amount of infiltration and inflow (I/I) entering the wastewater collection system.



# Summary of Preliminary CIP and Implementation Schedule

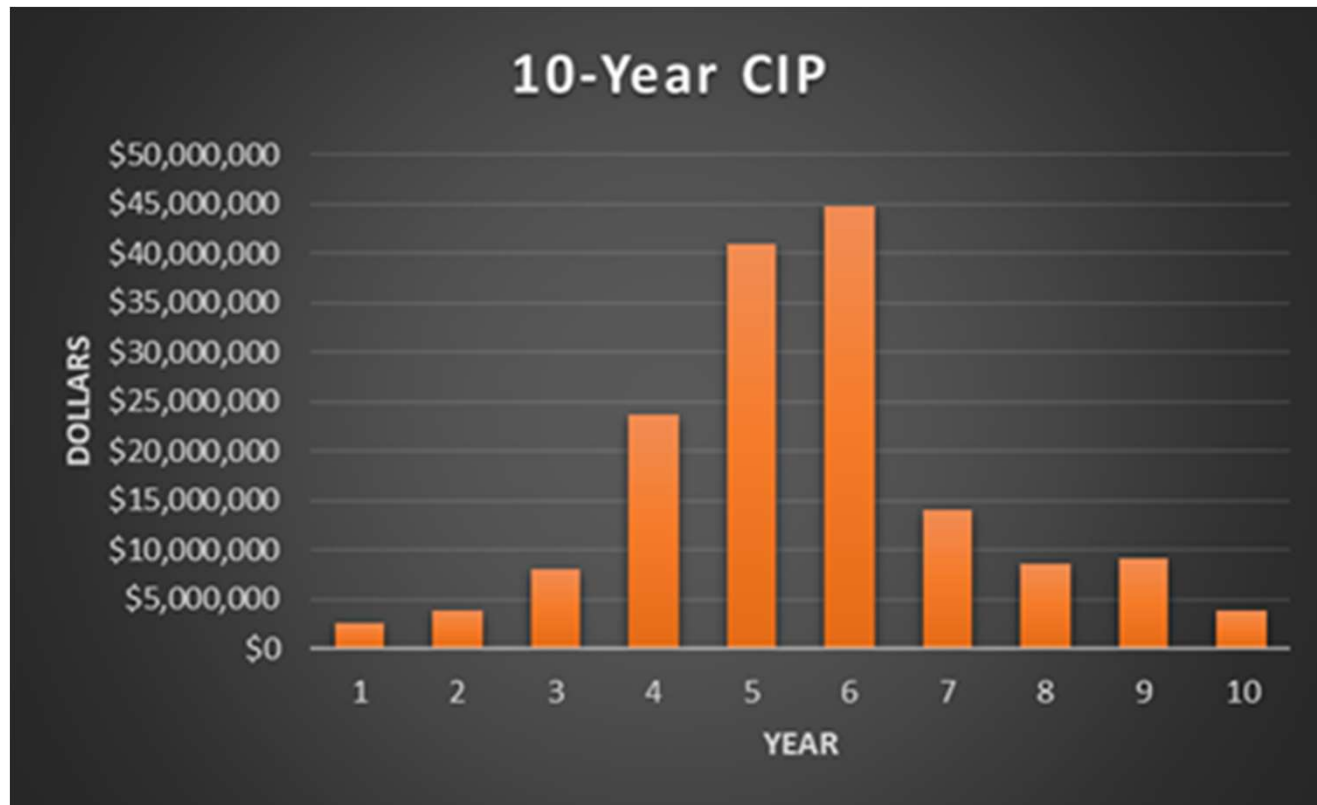
Component \ Year	Years 0-5	Years 6-10	Years 11-15	Years 16-20	Years 20+	Total
New Wastewater Forcemain/Major Pump Station CSO Separation Project	\$10,576,500	\$9,426,000				\$20,002,500
New JSWPCP CSO Treatment and Pumping Facility Project	\$15,138,000	\$13,255,000				\$28,393,000
JSWPCP Improvements Project	\$38,025,000	\$22,692,000				\$60,717,000
JSWPCP Future Improvements Project					\$20,000,000	\$20,000,000
Wastewater Pump Station Improvements/Upgrade Program		\$4,930,000				\$4,930,000
CSO/Wastewater Collection System Separation Program	\$15,120,000	\$20,000,000	\$20,000,000	\$15,000,000		\$70,120,000
Inflow/Infiltration Reduction Program		\$10,000,000	\$10,000,000	\$10,000,000		\$30,000,000
<b>SubTotal</b>	<b>\$78,859,500</b>	<b>\$80,303,000</b>	<b>\$30,000,000</b>	<b>\$25,000,000</b>	<b>\$20,000,000</b>	<b>\$234,162,500</b>

**Total CIP Budget Projection = \$234M**

Component	Year	1	2	3	4	5	6	7	8	9	10	Total
<b>1 - New Wastewater Forcemain/Major Pump Station CSO Separation Project</b>												
Design				\$ 250,000	\$ 750,000							\$ 1,000,000
Easements/Permitting				\$ 75,000	\$ 75,000							\$ 150,000
SDC						\$ 370,000	\$ 370,000					\$ 740,000
Construction						\$ 9,056,500	\$ 9,056,000					\$ 18,112,500
<b>2 - New JSWPCP &amp; 8th Ave CSO Treatment and Pumping Facility Projects</b>												
Design				\$ 866,500		\$ 866,500						\$ 1,733,000
Easements/Permitting		\$ 75,000	\$ 50,000			\$ 25,000						\$ 150,000
SDC					\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000				\$ 800,000
Construction					\$ 6,427,500	\$ 6,427,500	\$ 6,427,500	\$ 6,427,500				\$ 25,710,000
<b>3 - JSWPCP Improvements Project</b>												
Design		\$ 1,000,000	\$ 2,487,000									\$ 3,487,000
Easements/Permitting		\$ 75,000	\$ 75,000									\$ 150,000
SDC					\$ 700,000	\$ 700,000	\$ 700,000					\$ 2,100,000
Construction					\$10,996,000	\$ 21,992,000	\$ 21,992,000					\$ 54,980,000
<b>4 - JSWPCP Future Improvements Project</b>												
Design												
Easements/Permitting												
SDC												
Construction												
<b>5 - Wastewater Pump Station Improvements/Upgrade Program</b>												
Design							\$ 200,000	\$ 250,000				\$ 450,000
Easements/Permitting								\$ 20,000				\$ 20,000
SDC							\$ 30,000	\$ 60,000				\$ 90,000
Construction							\$ 1,875,000	\$ 2,495,000				\$ 4,370,000
<b>6 - CSO/Wastewater Collection System Separation Program</b>												
Design	\$ 300,000	\$ 210,000	\$ 290,000	\$ 70,000	\$ -	\$ 800,000	\$ 700,000	\$ 400,000	\$ 100,000	\$ -	\$ -	\$ 2,870,000
Easements/Permitting	\$ 100,000	\$ 100,000	\$ 70,000	\$ 20,000	\$ -	\$ 200,000	\$ 175,000	\$ 100,000	\$ 25,000	\$ -	\$ -	\$ 790,000
SDC	\$ 125,000	\$ 133,000	\$ 400,000	\$ 400,000	\$ 120,000	\$ 80,000	\$ 160,000	\$ 560,000	\$ 640,000	\$ 160,000	\$ -	\$ 2,778,000
Construction	\$ 2,000,000	\$ 2,152,000	\$ 3,500,000	\$ 4,000,000	\$ 1,130,000	\$ 795,000	\$ 1,590,000	\$ 5,565,000	\$ 6,360,000	\$ 1,590,000	\$ -	\$ 28,682,000
<b>7 - Inflow/Infiltration Reduction Program</b>												
Design							\$ 70,000	\$ 70,000	\$ 70,000	\$ 70,000	\$ 70,000	\$ 350,000
Easements/Permitting							\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 50,000
SDC							\$ 170,000	\$ 170,000	\$ 170,000	\$ 170,000	\$ 170,000	\$ 850,000
Construction							\$ 1,750,000	\$ 1,750,000	\$ 1,750,000	\$ 1,750,000	\$ 1,750,000	\$ 8,750,000
<b>SubTotal</b>	<b>\$ 2,525,000</b>	<b>\$ 3,745,000</b>	<b>\$ 8,063,500</b>	<b>\$23,638,500</b>	<b>\$ 40,887,500</b>	<b>\$ 44,725,500</b>	<b>\$ 14,077,500</b>	<b>\$ 8,625,000</b>	<b>\$ 9,125,000</b>	<b>\$ 3,750,000</b>		<b>\$159,162,500</b>



# Preliminary CIP Cash Flow Projection





# Questions?