

# DRAFT CAPITAL IMPROVEMENT PLAN AND 2022 CAPITAL BUDGET

DRAFT
2022-2026 CIP 5-YEAR PLAN
Monica Daniels, Finance Asset Manager

April 7, 2021 CIPO Committee Meeting

# Summary of 5-Year CIP Draft Financial Plan and FY2021-2022 Capital Budget

The FY 2022 – FY 2026 capital improvement plan provides for \$216 million of water system improvements and \$210 million of sewer system improvements over the five year planning cycle. *Five Year Total \$426M* and FY22 Capital Budget of \$153,744,568

Category Summary	% of 5-Year Spend	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total 5-Year 2022-2026
Water Main	33%	42,985	50,680	40,000	21,750	15,750	10,750	138,930
Sewer Line Replacement	30%	28,367	46,918	32,525	21,025	14,000	14,000	128,468
CIPMO	1%	8,280	5,590	-	-	-	-	5,590
Green Infrastructure	12%	12,470	14,773	11,723	8,843	9,995	6,995	52,329
Central Services	10%	23,912	13,970	8,235	6,500	6,500	6,500	41,705
Meters/ Fire Hydrants	3%	8,767	8,701	1,000	1,000	1,000	1,000	12,701
Repair/Restoration	11%	20,973	13,113	11,000	12,800	8,720	1,000	46,633
	100%	145,754	153,745	104,483	71,918	55,965	40,245	426,356
Water	59.1%	86,080	80,661	54,918	37,800	27,720	15,000	216,099
Sewer	40.9%	59,674	73,083	49,566	34,118	28,245	25,245	210,257
	100.0%	145,754	153,745	104,483	71,918	55,965	40,245	426,356

# **Water Project List**

Total estimated cost (1000's)

Water Project List 2022-2026 CIP

216,099	15,000	27,720	37,800	54,918	80,661	TOTALS		
7,761	1,000	1,000	1,000	1,000	3,761	I&E	⊳	Facility Improvement Allowance
5,757	750	750	750	1,618	1,890	I&E	Þ	Information Technology
7,335	1,500	1,500	1,500	1,500	1,335	I&E	Þ	Vehicle, Heavy Equipment, and Equipment Purchases
2,069	1	,			2,069	I&E	Þ	CS-1926 Itron Migration Project Management
5,931	'				5,931	I&E	Þ	CS-1925 Itron Migration -MIU Replacement
1,250	250	250	250	250	250	I&E	Þ	Fire Hydrant Replacement Program
3,451	750	750	750	750	451	I&E	▶	Water Meter Replacement Program
		,	1	,		I&E	Þ	PC-803B Meter Installation
28,000	10,000	10,000	8,000		,	I&E	z	Watermain Program Allowances
2,500	750	750	1,000			I&E	z	Construction Program Management Allowances
2,795					2,795	I&E/Bond	⊳	<b>CS-1812</b> Professional Engineering and Construction Services for CIPMO
500				250	250	I&E	z	CS-1947 Condition Assessment Sherwood Forest,
2,250	-		750	750	750	I&E	z	CS-1923 Third Party Inspection (Water & Sewer)
3,000	1		1,000	1,000	1,000	I&E	z	CS-1921 Watermain/Sewer Design
250		,	1	,	250	I&E	z	CS-1909A-Condition Assessments-High Priority Neighborhoods
7,700	1	,	1	3,700	4,000	I&E	٦	PC-808 West Warren (Constance at Rouge Park/Tireman Sawyer PH III)
20,400		2,720	6,800	6,800	4,080	I&E	z	<b>DWS-919</b> (replace DWS-902)
1,500	1		-		1,500	I&E	⊳	DWS-904 Repair of Lawns (break repair)
1,920	,				1,920	I&E	⊳	DWS-902 Repair of Pavement (break repair)
4,000	,	2,000	2,000			I&E	z	WS-719 Repair of Water Mains (WS-708/WS-702A)
13,000		3,000	3,000	3,000	4,000	I&E	z	WS-717 Repair & Replacement of Water Mains (WS-7028)
	,					I&E	⊳	WS-708 Repair of Water Mains
	'	,	,	,	,	I&E	Þ	WS-702 Repair & Replacement of Water Mains
14,000		5,000	5,000	4,000		DWRF/Bond	z	WS-725 Watermain Replacement-Medical Ctr, Cultural Ctr & Midtown 30,000LF
1,000				200	800	Grant/Legal Settlements	z	WS-723 Lead Service Line Replacement for Settlements
11,000	,			5,000	6,000	I&E/Bond	z	WS-721 Lead Service Line Replacement
12,100	,		3,000	6,000	3,100	I&E/Bond	z	WS-720 Watermain Replacement-Various Streets
5,000	-				5,000	I&E/Bond	Þ	DWS-907 Watermain & Sewer Rehab-North Rosedale Park
2,300	,				2,300	DWRF/I&E	z	WS-718 WM New Center Commons & Virginia Park
16,900			3,000	7,000	6,900	DWRF/I&E	z	WS-715 Pilot Areas-Riverdale, Minock, Miller & Rosedale
				'		DWRF	0	WS-714 Water Main Replacement-MDOT Streetscape
15,000	'			7,500	7,500	DWRF	z	WS-713 Water Main Replacement-Jefferson/Chalmers
11,130				3,500	7,630	I&E/Bond	D	WS-712 Water Main Replacement-Cornerstone Village
5,200			-	1,000	4,200	Loan (DWRF)	⊳	WS-711 Water Main Replacement-Incl Jefferson Streetscape
1,100				100	1,000	Loan (DWRF)	Þ	WS-710 Water Main Replacement-Incl Wayne Co Roads
-						Loan (DWRF)	C	WS-707 Water Main Replacement- (20,000LF)
•					,	Bond	C	WS-706 Water Main Replacement Wayne Co. Roads
-	-	-	-	-		Bond	С	WS-705 Water Main Replacement-2-sections
		,	,	,		Bond	0	WS-704 Water Main Replacement -along Outerdrive
-	-			-	,	I&E	n	WS-703 Water Main Replacement (33,820 LF)
2022-2026 CIP Total	2025-26	2024-25	2023-24	2022-23	2021-22	Source of Funds	Status	Description
							,	

# **Sewer Project List**

Total estimated cost (1000's)

Sewer Project List 2022-2026 CIP

100.000	-	-0,0	-0,0	0.7==0		10/000	. 0		
100.0%	_	25.245	28.245	34 118	49.566	73.083	TOTALS		
3.7%	7,761	1,000	1,000	1,000	1,000	3,761	I&E	z	Facility Improvement Allowance
2.7%	5,757	750	750	750	1,618	1,890	I&E	z	Information Technology
3.5%	7,335	1,500	1,500	1,500	1,500	1,335	I&E	z	Vehicle, Heavy Equipment, and Equipment Purchases
4.5%	9,500	1,000	1,000	2,500	2,500	2,500	I&E	P	CS-1884 Green Infrastructure Program Management
4.8%	10,000	5,000	5,000	,		,	I&E	z	Green Stormwater Infrastructure Construction Allowance
0.0%	15	,	,	5	5	5	I&E	z	Chandler Park Drive (CIPMP)
0.0%	5		'	,	,	5	I&E	Р	Capital Partnership Program
0.0%	6				ω	ω	I&E	z	North Rosedale (Edinborough)
0.4%	770			38	45	687	I&E	z	PC-806 Charles H. Wright Academy
0.0%	10		-			10	I&E	C	PC-800 O'Shea Park
0.0%	60	,	,	20	20	20	I&E/ Bond	Þ	PC-801A Oakman Blvd
1.4%	3,000				1,500	1,500	I&E	z	PC-808 Sewer Rehabilitation (Non GSI)
13.8%	28,960	995	3,995	6,280	7,650	10,040	I&E	z	PC-808 West Warren (Constance at Rouge Park/Tireman Sawyer PH III)
0.0%	ω		,		-	ω	I&E	C	PC-799 Crowell Rec Center and EcoSite Modifications
0.0%			,			,	I&E	C	CS-1522 Green Infrastructure Program Management
1.1%	2,250		-	750	750	750	I&E	z	CS-1923 Third Party Inspection (Water & Sewer)
1.4%	3,000			1,000	1,000	1,000	I&E	z	CS-1921 Watermain/Sewer Design
1.4%	3,000	1,000	1,000	1,000		,	I&E	z	Repair and Maintenance Allowance
1.1%	2,400				1,200	1,200	I&E	z	DWS-919 (replace DWS-902)
0.2%	338		,		,	338	I&E	Þ	DWS-904 Repair of Lawns (break repair)
0.0%	75				,	75	I&E	Þ	DWS-902 Repair of Pavement (break repair)
1.3%	2,795	,	,	,	,	2,795	I&E/ Bond	Þ	CS-1812 Professional Engineering and Construction Services for Capital Improvement Program Management Organization
20.0%	42,000	14,000	14,000	12,000	2,000		I&E	z	
2.1%	4,500				2,250	2,250	DWRF/I&E	z	<b>DWS-939</b> Sewer Condition Assessments High Priority
2.1%	4,500				2,250	2,250	DWRF/I&E	z	<b>DWS-938</b> Sewer Condition assessments throughout City (DWS-909)
7.4%	15,600	,		,	7,600	8,000	DWRF/I&E	z	DWS-937 Sewer Replacement
0.0%			-	-			I&E	С	DWS-933 Corktown Sewer
2.3%	4,800				400	4,400	I&E/Bond	۳	DWS-932 Large Sewer Improvements: Riverdale & Rosedale
0.4%	925	-	-	275	325	325	I&E	Ъ	DWS-931 Roofing Upgrades at Sewage PumpStations
2.4%	5,000			2,500	2,500		I&E	P	<b>DWS-926</b> Sewer Condition Assessments - West Village, Southwest Detroit, Michigan-Martin
0.3%	600			200	200	200	I&E	ס	<b>DWS-921</b> Electrical Monitoring Upgrades at Belle Isle, Woodmere, Fischer Sewage Pump Stations
7.1%	15,000			4,000	8,000	3,000	I&E	z	<b>DWS-920</b> Inspection and Rehabilitation of Sewers City Wide (Replace DWS-903)
2.3%	4,900	-			450	4,450	SRF/Bond	z	<b>DWS-918</b> Sewer Improvements in Rosedale
4.8%	10,100			300	4,800	5,000	SRF/Bond	z	DWS-917 Sewer Improvement in Riverdale
1.2%	2,600		-	-	-	2,600	SRF/Bond	Þ	<b>DWS-916</b> Sewer Improvements in High Priority Neighborhoods
0.0%	-	-	-	-	-	-	1&E	С	DWS-910- Sewer Condition Assessments High Priority
0.0%			,		-	,	1&E	С	DWS-909 Sewer Condition assessments throughout City
1.3%	2,693	-	-	-	-	2,693	I&E/ Bond	Þ	<b>DWS-908</b> Cornerstone Village Sewer Rehab
1.4%	3,000	-				3,000	I&E/ Bond	А	DWS-907 North Rosedale Park
3.3%	7,000	-	-	-	-	7,000	I&E/ Bond	Þ	<b>DWS-903</b> Inspection and Rehabilitation of Sewers City Wide
Percent of CIP	2022-2026 CIP Total	2025-26	2024-25	2023-24	2022-23	2021-22	Source of Funds	Status	Description
									11



#### **Information Technology**

		<u> </u>	
Descriptions	Туре		2021-22
	Security		
<b>DWS-912</b> Video Security System Upgrades	Software	Addition	\$ 240,000
	Customer Service		
CS-1917 EnQuesta Upgrade	Software	Software Maintenance	\$ 200,000
	Operations		
Collaboration Software for Drainage &			
Records Management	Software	New Software Implementation	\$ 190,000
DWS-928 GPS for vehicles	Hardware/Equipment	New Hardware/Equipment Implementation	\$ 564,000
Misc. Equipment for AssetWorks	Hardware/Equipment	New Hardware/Equipment Implementation	\$ 50,000
Itron Replacement (staffing support)	Other IT Implementation	CIP IT STAFFING	\$ 600,000
CS-1952 Oracle Supply chain Management	Other IT Implementation	New Other IT Implementation Implementation	\$ 800,000
Info	rmation Technology		
Desktops	Hardware/Equipment	Hardware	\$ 50,000
Laptop Charging Stations	Hardware/Equipment	Hardware	\$ 5,000
Laptops	Hardware/Equipment	Hardware	\$ 10,000
Rugged Tablets/Laptops	Hardware/Equipment	Hardware	\$ 20,000
Tablets	Hardware/Equipment	Hardware	\$ 50,000
Low Voltage Wiring	Hardware/Equipment	New Hardware/Equipment Implementation	\$ 200,000
Phone System Migration to Avaya	Hardware/Equipment	New Hardware/Equipment Implementation	\$ 20,000
Printers	Hardware/Equipment	Hardware	\$ 30,000
Cityworks/AssetWorks/Records Implement	Other IT Implementation	New Other IT Implementation Implementation	\$ 400,000
GIS Update As-Built Drawing Upgrades	Other IT Implementation	New Other IT Implementation Implementation	\$ 350,000
Total			\$ 3,779,000

#### Vehicle, Heavy Equipment, and Equipment

Descriptions	Туре	QTY	Estimated Unit Cost	2021-22
Meter Operations			45,000	
F-350 Super Duty	Truck	1	45,000	45,000
Field Services Operations			1,935,000	
F150	Truck	6	45,000	270,000
F-450 Super Duty	<b>Utility Truck</b>	3	125,000	375,000
F-550 Super Duty	<b>Utility Truck</b>	5	130,000	650,000
5-Yard Dump-Salt Truck	Dump Truck	1	250,000	250,000
Mini-Excavator	Backhoe	2	150,000	300,000
Trailers for Mini Excavator	Trailer	2	30,000	60,000
Golf Cart	Vehicle	2	15,000	30,000
Fleet Operations			690,000	
SUV	Vehicle	5	32,000	160,000
Pool Vehicles	Vehicle	5	35,000	175,000
Golf Cart	Vehicle	2	15,000	30,000
F150	Truck	5	45,000	225,000
Passenger Vehicles	Vehicle	2	25,000	50,000
Confined Space Tripod	Equipment	2	12,500	25,000
Tampers/Compactors	Equipment	2	5,000	10,000
Underground Locators	Equipment	2	7,500	15,000
Total				2,670,000





#### **FY 2022 Facility Improvements**

	<u> </u>			
Descriptions	Туре	QTY	Unit Cost	2021-22
Roofing				
CSF/West/MOB	Roof replacement			3,000,000
Heating Units				
CSF	HVAC Units	10	150,000	500,000
West Payment	HVAC Rooftop Unit Replacement	2	15,000	30,000
MOB	Steam Improvements			15,000
MOB	Heat Improvement - Car Elevator area			36,000
Misc. HVAC Improvements	Auto Garage - Extra large Fans	6	20,000	120,000
Garage Door Replacement				
<b>DWS-926</b> Overhead Dooes CSF/ West Yard	Fabric Door Replacement	10	25,000	200,000
Interior Improvements				
Build Out	Interior Space Improvements			300,000
DWS-914 Flooring	Interior West Yard	10	100,000	250,000
Flooring	Exterior West Yard			150,000
2nd Floor Admin-Buildout	Design/Feasibility			50,000
<b>DWS-927</b> Bathroom Improvements (Covid)	Design/Feasibility			150,000
Parking Lot Improvements				
LED Lights	Yards/Garage			200,000
Gate Operator	CSF & West Yard			20,000
Detroit Building Authority (DBA)	Consolidation, Renovations & In	nprovem	nents	2,500,000
Total				\$ 7,521,000



#### **Next Steps**

- Complete internal reviews with projection through June 2021
- Finalize 2022-2026 Five-year CIP and submit to BOWC for final approval May 2021
- Finalize CIP Book by June 2021
- Submit final BOWC approved CIP to Detroit City Council, for review only

#### **Thank You**





facebook.com/DWSDDetroit



@DetroitWaterDep



@detroitwatersewerage



### District Maps

**Watermain Projects by District** 



## District Maps

**Sewer/Green Infrastructure Projects by District** 



### 2021 CIP Street Table

**Upcoming Capital Construction Projects by City of Detroit Streets**