



CAPITAL IMPROVEMENT

STATUS AND 2ND QUARTER RECAP

JULY 2017-DECEMBER 2017

March 7, 2018

CIP Budget to Actual last 2 years



Category	2016 CIP Budget	2016 Actual	Variance	2017 CIP Budget	2017 Actual	Variance
Water Main Replacements	\$ 25,055,000	\$ 18,486,160	\$ 6,568,840	\$ 23,821,000	\$15,730,162	\$ 8,090,838
Sewer Lining/ Rehabilitation	6,265,000	9,721,806	(3,456,806)	8,452,000	12,357,555	(3,905,555)
Green Infrastructure	-	-	-	8,000,000	8,361,505	(361,505)
Central Services (Fleet, Facilities & IT)	5,000	10,501	(5,501)	4,204,000	938,858	3,265,142
General - CIPMO	1,250	-	1,250	-	-	-
Meters/Fire Hydrants	-	758,076	(758,076)	6,000,000	2,444,316	3,555,684
Uncommitted (incl. allowances)	<u>18,200,000</u>	<u>-</u>	<u>18,200,000</u>	<u>28,146,000</u>	<u>-</u>	<u>28,146,000</u>
Total	\$ 49,526,250 W-39M/S-10.4M	\$ 28,976,543 W-19.2M/ S-9.7M	\$ 20,549,707	\$ 78,623,000 W-\$49M/S-\$26.9M	\$ 39,832,396 W-\$18.9M/S-\$20.8M	\$ 38,790,604

2016 Variance less allowance \$2,349,707

2017 Variance less allowance \$10,644,604

CIP Quarterly Report – 2nd Quarter FY18



Category	2017 CIP Budget	2017 Actual	CIP 2018 Budget	Spend 2 nd Qtr (July-Dec 2017)
Water Main Replacements	\$ 23,821,000	\$15,730,162	\$44,700,000	\$8,201,660
Sewer Lining/ Rehabilitation	\$ 8,452,000	\$12,357,555	\$20,000,000	\$2,991,256
Green Infrastructure	\$ 8,000,000	\$8,361,505	\$12,225,000	\$1,216,040
Central Services (Fleet, Facilities & IT)	\$ 4,204,000	\$938,858	\$10,750,000	\$5,687,571
CIPMO - AECOM	\$ -	-	\$15,696,000	\$1,045,914
Meters/Fire Hydrants	\$ 6,000,000	\$2,444,316	\$6,000,000	\$800,500
Uncommitted (incl. allowances)	<u>\$ 28,146,000</u>	=	<u>\$29,304,000</u>	=
Total	\$78,623,000 W-\$49M/S-\$26.9M	\$39,832,397 W-\$18.9M/S-\$20.8M	\$138,675,000 W-\$78M/S-\$60M	\$19,942,941 W-\$13.3M/S-\$6.6M

Top Active Projects



Water

Project Name	Budget Value	Status
WS-693A Joy Road Water Main Replacement Phase II (23,000 LF)	\$ 9,479,876	82%
WS-697 Water Main Replacement (19,000 LF)	\$ 4,584,241	90%
WS-698 Water Main Replacement Northwestern areas of Detroit (27,000LF)	\$ 7,752,019	16%
WS-703 Water Main Replacement Various Locations within Detroit (33,820LF)	\$ 13,041,429	5%

Water/Sewer & Central Services

CS-1812 CIPMO	\$ 57,406,355	2%
Vactor Trucks(8)	\$4,950,000	77%
HVAC Units at CSF	\$450,000	0% (Ordered)
Central Services Facility (CSF) Consolidation, Renovations & Improvements	\$5,000,000	0%

Sewer

Project Name	Budget Value	Status
DWS-900 Inspection & Rehab -West Side	\$8,225,950	68%
CS-1522 Green Infrastructure Program Management	\$16,000,000	81%
DWS-903 Inspection & In-Place Rehab of Existing Sewers in the City of Detroit	\$60,000,000	0% Awarded

Total Capital Projects 23 (CIPMO in both)	Water 14	Sewer 10
Active/Awarded	7	3
Under Procurement (out for bid)	3	3
Pending Closeout	4	5
Total projects in 2018 CIP	15	24
Watermain projects not out for bid DBA Contract GI planning not complete	N/A-2 Diff 2 DBA and WS-707/8	N/A-12 Diff 2

Project Descriptions



Water Project Descriptions

WS-693A Joy Road Water Main Replacement Phase II **Contractor:** Lakeshore Global **Completion date:** 9/5/2018

This water main replacement contract is one of a continuing series of contracts that replace the old water mains in the City

The objective is to replace existing 6-inch, 8-inch, 12-inch, 16-inch, and 24-inch water mains that have a history of leaks and breaks with approximately 15,850 linear feet of 8-inch, 1,781 linear feet of 12-inch, 128 linear feet of 16-inch Ductile Iron Water Main and 5,300 linear feet of 24-inch water main. All new water main will be ductile iron enveloped in 8-mil Polyethylene wrap and the installation work is inclusive of all fittings, water main appurtenances, hydrants, and all related structures. The work also includes a jack and bore placement of the 24-inch water main at a railroad crossing at Joy Road west of Schaefer.

This is a State of Michigan Drinking Water Revolving Fund (DWRf) project

WS-697 Water Main Replacement **Contractor:** Imperial Construction Company **Completion date:** 11/29/2018

The objective is to furnish and install approximately 18,991 linear feet of 8-inch and 146 linear feet of 12-inch Ductile Iron Pipe and fittings. The Contractor will also furnish and install 8-inch and 12-inch, Gate Valves, place 8-mil Polyethylene wrap around the new water main, and furnish/construct/install all water main appurtenances, connections and related structures covering the Southeast part of the city.

This is a State of Michigan Drinking Water Revolving Fund (DWRf) project

WS-698 Water Main Replacement Northwestern areas of Detroit **Contractor:** Major Cement **Completion date:** 12/18/2018

The objective is to furnish and install approximately 21,743 linear feet of 8-inch and 5,009 linear feet of 16-inch Ductile Iron Pipe and fittings. The Contractor will also furnish and install 8-inch and 12-inch, Gate Valves, place 8-mil Polyethylene wrap around the new water main, and furnish/construct/install all water main appurtenances, connections and related structures.

This is a State of Michigan Drinking Water Revolving Fund (DWRf) project

WS-703 Water Main Replacement Various Locations within Detroit **Contractor:** Major Cement **Completion date:** 09/30/2019

The objective is to furnish and install approximately 37,615 linear feet of 8-inch, 1,760 linear feet of 12-inch and 5,200 linear feet of 16-inch Ductile Iron Pipe and fittings. The Contractor will also furnish and install Gate valves, place 8-mil Polyethylene wrap around the new water main and furnish/construct/install all water main appurtenances, connections and related structures.

Project Descriptions



SEWER PROJECT DESCRIPTIONS

DWS-900 Inspection & Rehab -West Side

Contractor: Inland Waters Pollution Control **Completion date:** 5/10/2018

The purpose of this contract is to provide the means of as-needed inspection and open cut repair of failed sewers and in-place rehabilitation of selected sewers using the procedures, methods and equipment of the cured-in-place pipe lining process.

The cured-in-place pipe lining process has been utilized by DWSD on previous contracts, at an average cost savings of approximately 34% to the Department and the City of Detroit as compared to the other, more expensive rehabilitation methods. Additionally, this process minimizes traffic disruptions that often antagonize residents.

To achieve this goal, four contracts were developed, to service the four DWSD Maintenance Yards, East Yard, Central Yard, North Yard and West Yard in the City of Detroit. This contract is for work at the North Yard. The rehabilitation/lining process will extend the life of a sewer by at least 50 years.

CS-1522 Green Infrastructure Program Management **Contractor:** Tetra Tech of Michigan **Completion date:** 12/13/2021

The purpose of this contract is to implement projects and activities that will reduce CSO discharge from 17 outfalls in Upper Rouge Tributary areas. Also provided assistance for preparation of drainage charges and credits (this portion is complete and not considered capital).

DWS-903 Inspection & In-Place Rehab of Existing Sewers in the City of Detroit **Contractor:** TBD **Completion:** 1095 calendar days

Inspection and in-place rehabilitation of existing sewers in the City of Detroit using the construction process, procedures, methods and equipment of the trenchless pipeline rehabilitation techniques. Work to be performed on an as-needed basis.

Project Descriptions



Central Services Project Descriptions

CS-1812 Capital Improvement Program Management Organization (CIPMO) **Contractor:** AECOM Great Lakes, Inc. **Completion date:** 7/10/2022

The purpose of this contract is to provide CIPMO coordination and execute the capital project planning and implementation across DWSD areas responsible for infrastructure and community development. Scope and services include Pilot program, asset management, advanced metering infrastructure analysis, update water and sewer standards, design an inclusion program for Detroiters, and establish a sustainable program for DWSD staff.

Purchase: (8) Leak Trucks **Vendor:** Tri-/County International Trucks

These units are custom built with underbody compressors and hydraulic tools, utilized to support mechanical repairs, maintenance operations, to transport personnel and equipment to water transmission repair sites throughout the City of Detroit. *Arrival is expected in April 2018.*

Purchase: (8) Security Vehicles: Specifications currently under review by the *City's Fleet Steering Committee*. City approval needed to complete order.

DBA-MOU Central Services Facility (CSF) Consolidation, Renovations & Improvements **Contractor:** Detroit Building Authority

The purpose of this contract is to complete an assessment of CSF and space programming after which the determination of space available for lease to the City's General Service Dept. This MOU will also be used to facilitate capital improvement activities for all the DWSD owned facilities.