



Item 2
REVISED

COMMISSION FILE NO: 16-102-9 **DATE INTRODUCED:** September 12, 2016

INTRODUCED BY: Executive Director (Signature on File in the Office of the Commission)

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Amendment Number Three, Contract C03009D01, 107th Street Metropolitan Interceptor Sewer Improvement Project, and Restore the Executive Director's Original Delegated Authority

SUMMARY:

The Commission is requested to authorize the Executive Director to execute Amendment Number Three to Contract C03009D01, 107th Street Metropolitan Interceptor Sewer Improvement (MIS) Project, with Brown and Caldwell (B&C) in an amount not to exceed \$71,972 and to restore the Executive Director's original delegated authority.

The 107th Street MIS conveys wastewater from Milwaukee, Menomonee Falls, Germantown, and Mequon. The project area consists of approximately 7,300 lineal feet of 72-inch Special Section MIS and 14 manholes. Generally, the project begins at West Appleton Avenue, south of the Little Menomonee River Parkway, and heads south along North 107th Street, northwest of West Fairmount Avenue and West Harvest Lane extended, all located within the City of Milwaukee.

This branch of the MIS is nearly 60 years old. Televised inspections have revealed evidence of internal corrosion to the existing MIS segment walls. These defects include visible pipe aggregate and protruding reinforcement with significant infiltration at some joints.

The overall purpose of this project is to rehabilitate pipe segments and manholes that are corroding and pose a threat of failure and to provide at least an additional 50 years of continued reliable service.

In June 2015, the District awarded an engineering services contract (Contract C03009D01, 107th Street Metropolitan Interceptor Sewer Improvement Project) to B&C in an amount not to exceed \$510,030.

ATTACHMENTS: **BACKGROUND** ☐ **KEY ISSUES** ☐ **RESOLUTION** ☒
FISCAL NOTE ☒ **S/W/MBE** ☐ **OTHER** ☐ _____

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COMMITTEE ACTION: _____ **DATE:** _____

COMMISSION ACTION: _____ **DATE:** _____

SUMMARY (Cont'd)

Amendment Number Three, Contract C03009D01, 107th Street Metropolitan Interceptor Sewer Improvement Project, and Restore the Executive Director's Original Delegated Authority

The scope of B&C's contract consists of:

1. Reviewing existing reference information, including previous reports and videotapes.
2. Updating past inspections using closed circuit television equipment.
3. Inspecting the 14 manholes (confined space entry manhole inspections).
4. Providing engineering services to evaluate and recommend pipeline and manhole rehabilitation systems.
5. Developing bid and construction documents for the selected rehabilitation methods.
6. Providing bid and award services.
7. Providing necessary engineering services during construction.

B&C completed the first three tasks above and developed initial recommendations based on information gathered to date. Based on this information, it is not possible to determine how much pipe loss has actually occurred and how much strength the pipe material currently has. While B&C could make recommendations without further analysis, they would, out of necessity, be conservative, possibly resulting in the District rehabilitating sewer segments where rehabilitation may be unnecessary. Based on information gathered to date, B&C would recommend performing a full structural rehabilitation on the entire 7,300 feet of sewer. This would result in expenditures estimated at \$14 million. In consultation with B&C, District staff recommends further pipeline investigation and analysis for the purpose of refining and possibly reducing the scope of the rehabilitation.

Staff has worked with B&C to develop scope and costs to perform this additional data collection, analysis, and development of revised recommendations. Under Contract Amendment Number 2, approved by the Executive Director, B&C began this additional work. Amendment Number 3 will allow B&C to complete the additional work and develop final recommendations.

Amendment Number Three requires Commission approval since the project's Executive Director Authority for contract amendments is nearly exhausted. The scope of Amendment Three consists of:

- Performing and reviewing chemical and compressive strength laboratory tests on the concrete core samples.
- Undertaking detailed engineering analysis (using finite element analysis) to estimate the strength of the MIS segments under existing conditions.
- Developing final rehabilitation recommendations included in the final technical memorandum based on the additional investigations and analysis.

SUMMARY (Cont'd)

Amendment Number Three, Contract C03009D01, 107th Street Metropolitan Interceptor Sewer Improvement Project, and Restore the Executive Director's Original Delegated Authority

The Commission has delegated to the Executive Director the authority to make changes to engineering service contracts up to \$200,000 or 10 percent of the original contract price, whichever is less. For this contract, a limit of \$51,003 prevails. To date, the Executive Director has utilized \$50,892 of this authority, leaving a balance of \$111. The request to restore the Executive Director's authority is in case any other additional services of a minor nature are needed.

CONTRACT COST AND SCHEDULE CHANGES

CONTRACT	AMOUNT	PERCENTAGE INCREASE OVER ORIGINAL CONTRACT	AUTHORIZED BY
Original	\$510,030	-	Commission
Amendment No. 1	\$ 16,572	3%	Executive Director
Amendment No. 2	\$ 34,320	7%	Executive Director
Amendment No. 3	\$ 71,972	14%	Request of Commission
Total Amendments	\$122,864	24%	
TOTAL	\$632,894		

RESOLUTION

Amendment Number Three, Contract C03009D01, 107th Street Metropolitan Interceptor Sewer Improvement Project, and Restore the Executive Director's Original Delegated Authority

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to execute Amendment Number Three to Contract C03009D01, 107th Street Metropolitan Interceptor Sewer Improvement Project, with Brown and Caldwell in an amount not to exceed \$71,972, and that the Executive Director's original delegated authority is restored.