

COMMISSION FILE NO: 24-098-7 **DATE INTRODUCED:** July 8, 2024

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

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Change Order Request, Contract C03013D01, Engineering Services – Oklahoma Avenue Metropolitan Interceptor Sewer Capacity Improvements, and Restore Executive Director’s Original Delegated Authority

SUMMARY:

The Commission is requested to authorize the Executive Director to execute a change order to Contract C03013D01, Engineering Services – Oklahoma Avenue Metropolitan Interceptor Sewer (MIS) Capacity Improvements, with Jacobs Associates, Inc., (Jacobs) in an amount not to exceed \$94,411, and to restore the Executive Director’s original delegated authority.

The District’s 2035 Vision includes zero sewer overflows (both combined and sanitary) and no basement backups. Sanitary sewer overflows (SSO’s) are not permitted under the District’s Wisconsin Pollutant Discharge Elimination System permit. To achieve this goal and ensure ongoing permit compliance, staff have reviewed the 18 existing District-owned overflow locations to identify possible system improvements that could reduce the risk that an overflow will occur and reduce basement backup risks. One such overflow location is on the Oklahoma Avenue MIS.

This Oklahoma Avenue MIS is located within the Cities of Milwaukee and West Allis and consists of the following pipe segments. This MIS begins at the intersection of South 72nd Street and West Honey Creek Drive, travels northwest along Honey Creek Drive, then runs west along West Oklahoma Avenue to South 77th Street. At 77th Street, the MIS runs north parallel to Honey Creek to Beloit Road. The total area served by this MIS is 660 acres.

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

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COMMITTEE ACTION: _____ **DATE:** _____

COMMISSION ACTION: _____ **DATE:** _____

SUMMARY (Cont'd)

Change Order Request, Contract C03013D01, Engineering Services – Oklahoma Avenue Metropolitan Interceptor Sewer Capacity Improvements, and Restore Executive Director's Original Delegated Authority

Below is a summary of the size and age of the various MIS segments.

MIS Diameter (inches)	Length (feet)	Year Constructed
21	2,050	1953
39 special sections	500	1940
48	830	1988

An SSO pump station, identified as BS0303, is connected to the Oklahoma Avenue MIS at the intersection of Honey Creek and Oklahoma Avenue. During wet weather, when wastewater in this MIS reaches higher levels, BS0303 pumps wastewater from the MIS directly to Honey Creek, resulting in an SSO. An SSO occurs at this location on average every three to four years. Although it results in an SSO, the intent of using BS0303 is to reduce the risk of upstream basement backups by hydraulically relieving the Oklahoma Avenue MIS.

In September 2022, the Commission authorized the Executive Director to enter Contract C03013D01 with Jacobs in the amount of \$646,980 for the design of MIS Improvements to address the SSO and reduce the risk of basement backups.

Preliminary design for this project identified that the best alternative that would eliminate the BS0303 SSO pump station and reduce the risk of basement backups would be to replace the existing 21-inch diameter MIS by constructing 3,290 feet of 48-inch diameter MIS. This new MIS would begin at the intersection of West Honey Creek Drive and South 72nd Street, run north along South 72nd Street to the intersection of West Oklahoma Avenue and South 72nd Street, and then run west along West Oklahoma Avenue to tie into an existing 48-inch diameter MIS at the intersection of West Oklahoma Avenue and South 77th Street.

As Jacobs's work under this contract has progressed, District staff and Jacobs have identified the need for additional funding for the following:

- Increased costs to perform design of municipal sewer relocations.
- Adding asbestos and lead based paint testing on the SSO pump station.

SUMMARY (Cont'd)

Change Order Request, Contract C03013D01, Engineering Services – Oklahoma Avenue Metropolitan Interceptor Sewer Capacity Improvements, and Restore Executive Director's Original Delegated Authority

To abandon the existing 21-inch diameter MIS, sewers owned by the Cities of Milwaukee and West Allis need to be relocated and connected to the new 48-inch diameter MIS. When staff developed the original scope of services, it was unknown what utilities would need to be relocated and what the design of their relocation would entail. To address this uncertainty, staff provided a \$20,000 allowance in the contract to design local utility relocation. This allowance amount was based on staff experience for the originally identified alignment. The final alignment has since changed from the original alignment, resulting in a more complex set of municipally owned sewer relocations that need to be designed. Now that the actual municipal sewer relocations are known, staff has negotiated an associated final design fee. This results in additional costs above the original \$20,000 allowance.

The SSO pump station was constructed at a time when both asbestos and lead-based paints were commonly used. Now that the District has determined that the SSO pump station can be abandoned and demolished, it is necessary to determine if and where asbestos and lead-based paint is present. Once this is understood, the construction contract will require their proper remediation. Asbestos and lead-based paint testing was not included in the original scope of services.

As the contract progressed, several change orders were executed under the Executive Director's change order authority. The change orders addressed scope revisions and additional scope items necessary to complete the project. The following is a summary of the work performed under the change orders:

- Calibration of the sewer system hydraulic model used to predict future flows within the proposed 48-inch sewer to ensure the model is providing accurate information.
- Additional investigation of existing soil conditions along the selected route to identify potential impacted soil conditions.
- Additional vacuum excavation to gather information on the location of existing utilities along the selected route.

SUMMARY (Cont'd)

Change Order Request, Contract C03013D01, Engineering Services – Oklahoma Avenue Metropolitan Interceptor Sewer Capacity Improvements, and Restore Executive Director's Original Delegated Authority

	AMOUNT	PERCENTAGE INCREASE OVER ORIGINAL CONTRACT	AUTHORIZED BY	SWMBE
Original Contract	\$646,980	-	Commission	55.7%
Previous Change Orders	\$64,548	10.0%	Executive Director	64.4%
Requested Change Order	\$94,411	14.6%	Request of Commission	71.4%
Total Change Orders	\$158,959	24.6%		68.5%
TOTAL	\$805,939			58.2%

For engineering service contracts greater than \$500,000, the Commission has delegated to the Executive Director the authority to make changes up to \$200,000 or 10% of the original contract price, whichever is less. For this contract a limit of \$64,698 prevails. To date, the Executive Director has utilized \$64,548 of this authority, leaving a balance of \$150. The request to restore the Executive Director's authority is in case any additional changes beyond the remaining Executive Director's authority are necessary. Without this restored authority, work may need to stop while staff obtains necessary change order authority from the Commission.

RESOLUTION

Change Order Request, Contract C03013D01, Engineering Services – Oklahoma Avenue Metropolitan Interceptor Sewer Capacity Improvements, and Restore Executive Director's Original Delegated Authority

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to execute a change order to Contract C03013D01, Engineering Services – Oklahoma Avenue Metropolitan Interceptor Sewer Capacity Improvements, with Jacobs Associates, Inc., in an amount not to exceed \$94,411, and that the Executive Director's original delegated authority is restored.