

**COMMISSION FILE NO:** 25-044-4 **DATE INTRODUCED:** April 14, 2025

**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 C04005D01, Engineering Services – Martha Washington/Highlands Area Metropolitan Interceptor Sewer 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 C04005D01, Engineering Services – Martha Washington/Highlands Area Metropolitan Interceptor Sewer (MIS) Improvements, with Arcadis U.S., Inc., (Arcadis) in an amount not to exceed \$11,176 and to restore the Executive Director's original delegated authority.

The Martha Washington/Highlands Area MIS Improvements project area is bounded by West Center Street on the north, West Martin Avenue on the south, North 76th Street on the west, and North 60th Street on the east. This sewer system serves both the Cities of Milwaukee and Wauwatosa. It is comprised of approximately 25,000 linear feet of District-owned MIS, ranging in size from 15 inches to 48 inches in diameter. These sewers were constructed between 1927 and 1991. Sewers installed prior to the 1980's are vitrified clay. Sewers constructed more recently are reinforced concrete.

Closed circuit televising inspection has identified significant deterioration of the sewers, including separated pipe joints and significant root intrusion. These defects allow infiltration into the MIS, which can lead to increased risks of basement backups and sanitary sewer overflows. In addition, the condition of the pipes will only continue to deteriorate, leading to increased risk of structural failure and resultant safety risks.

The MIS system in this area has been modified over time, including pipeline additions that have been constructed to resolve specific issues. This has resulted, in some locations, multiple pipelines serving the same areas.

**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 C04005D01, Engineering Services – Martha Washington/Highlands Area Metropolitan Interceptor Sewer Improvements, and Restore Executive Director's Original Delegated Authority

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The District conducted a preliminary engineering study to evaluate the condition of the sewers and provide recommendations to restore service life of the sewers in the project area. The final recommendations included a combination of herbicidal root treatment, cured-in-place pipe lining, chemical grouting, and various manhole and sewer repairs.

The purpose of this project is to extend the service life of the Martha Washington/Highlands MIS system, reduce operation and maintenance costs, reduce excessive inflow and infiltration into the MIS system, minimize redundant pipes, and reduce direct connections within the MIS system.

In January 2023, the Commission authorized the Executive Director to enter into Contract C04005D01 with Arcadis to perform the following services:

- Project management.
- Review of existing reference information.
- Condition assessment of the project area MIS system.
- Hydraulic analysis and modeling.
- Alternatives and engineering analysis.
- Development of a system improvement program.
- Design of MIS system improvements.
- Preparation of final plans and specifications.
- Bid and award services.
- Engineering services during construction.

Properties and streets in the Martha Washington/Highlands area have experienced local stormwater (non-Menomonee River) flooding. For several years, the City of Wauwatosa has been developing alternatives to mitigate this flooding and is now conducting preliminary engineering on its preferred alternative. This alternative involves constructing large storm sewers near existing parallel District MIS's. Due to this, it is most likely that the District will need to relocate these District's MIS's.

To accommodate these storm sewers, the existing District MIS's must be properly sized, designed, and relocated. The construction of these relocations will need to be carefully sequenced with the installation of the new storm sewers.

The scope of this proposed change order includes:

- Modeling any relocated MIS's to ensure that they have adequate capacity and do not negatively affect downstream systems.
- In coordination with Wauwatosa's planned storm sewer improvements, developing a construction phasing plan.

### SUMMARY (Cont'd)

Change Order Request, Contract C04005D01, Engineering Services – Martha Washington/Highlands Area Metropolitan Interceptor Sewer Improvements, and Restore Executive Director's Original Delegated Authority

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District staff have already authorized \$62,865 for these services under the Executive Director's change order authority. The requested change order provides the remaining funding needed to complete these services.

In addition to this previously authorized change order, staff also executed another change order under the Executive Director's delegated authority to refine the District's hydraulic model and incorporate City of Wauwatosa sewers. This was done to ensure the model accurately predicts actual flows.

	AMOUNT	PERCENTAGE INCREASE OVER ORIGINAL CONTRACT	AUTHORIZED BY	SWMBE
Original Contract	\$749,602	-	Commission	45.2%
Previous Change Orders	\$74,705	10.0%	Executive Director	0%
Requested Change Order	\$11,176	1.5%	Request of Commission	0%
Total Change Orders	\$85,881	11.5%		0%
<b>TOTAL</b>	<b>\$835,483</b>			<b>40.6%</b>

For engineering service contracts greater than or equal to \$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 \$74,960 prevails. To date, the Executive Director has utilized \$74,705 of this authority, leaving a balance of \$255. The request to restore the Executive Director's authority is in case any other additional engineering services are needed during design.

## RESOLUTION

Change Order Request, Contract C04005D01, Engineering Services – Martha Washington/Highlands Area Metropolitan Interceptor Sewer Improvements, and Restore Executive Director's Original Delegated Authority

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**RESOLVED**, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to execute a change order to Contract C04005D01, Engineering Services – Martha Washington/Highlands Area Metropolitan Interceptor Sewer Improvements, with Arcadis U.S., Inc., in an amount not to exceed \$11,176, and that the Executive Director's original delegated authority is restored.