

COMMISSION FILE NO: 20-139-9 **DATE INTRODUCED:** September 14, 2020

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 J01019P01, Jones Island Force Main Assessment, and Restore the Executive Director's Original Delegated Authority

SUMMARY:

The Commission is requested to authorize the Executive Director to execute a change order to Contract J01019P01, Jones Island Force Main Assessment, with Brown and Caldwell in an amount not to exceed \$91,000 and to restore the Executive Director's original delegated authority.

In April 2018, the Commission approved the award of Contract J01019P01, Jones Island Force Main Assessment, to Brown and Caldwell to provide engineering services for the force main assessment. The contract expires in May 2021.

The general scope of work for this contract includes identifying condition assessment technologies appropriate for the force main pipe, developing plans and specifications for bid, assisting the condition assessment firm in the completion of the investigation, reviewing the assessment results to determine existing condition and rates of degradation, and making recommendations for pipe rehabilitation or replacement.

Additional scope items have been identified by District staff to develop an approach to perform corrosion investigation and assessment for the condition of three 42-inch pump discharge lines that feed into the head tanks at Jones Island Water Reclamation Facility (JIWRF). Effort for the additional scope items is included in this change order.

Total change orders, including previous change orders to this contract, represent a 65% increase over the original contract amount of \$148,611, resulting in a total contract amount of \$245,059. The overall Small, Women, and Minority Business Enterprise (SWMBE) participation is nearly 21%.

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 J01019P01, Jones Island Force Main Assessment, and Restore the Executive Director's Original Delegated Authority

Change Order One was a no cost change order to modify the scope of the project to remove the geotechnical investigation and instead perform nondestructive testing of a portion of the Jones Island Force Main that became exposed as a result of an emergency project. Change Order Two included additional effort as the result of an extended schedule caused by an emergency project at JIWRP.

CONTRACT COST CHANGES

CONTRACT	AMOUNT	PERCENT INCREASE OVER ORIGINAL CONTRACT	AUTHORIZED BY	SWMBE
Original	\$148,611		Commission	24%
Change Order One	\$0			24%
Change Order Two	\$5,448	4%	Executive Director	23.2%
Change Order Three	\$91,000	61%	Request of Commission	0%
Total Change Orders	\$96,448	65%		16.5%
TOTAL	\$245,059			20.7%

BACKGROUND

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Three 42-inch pump discharge lines (riser pipes) made of carbon steel and stainless steel convey wastewater from the Inline Storage System to the head tanks at JIWRP. The head tanks are connected to the Jones Island Force Main and the South Shore Force Main. The riser pipes are approximately 1,000 feet in total vertical length (~333 feet each).

The riser pipes were installed in the late 1980's and are 30 years old. The condition of the riser pipes is unknown. Additionally, the methodology for conducting a condition assessment of the riser pipes must be determined. The outcome from this change order will be a recommendation that includes condition assessment technologies and procedures for both types of pipe.

The additional scope with this change order will include:

- Identifying the condition assessment technologies appropriate for the riser pipes and confirming the pipe material, pipe size, access points, and the operation constraints.
- Summarizing the advantages and disadvantages of condition assessment technologies and performing a general cost comparison.
- Identifying limitations of use for each technology, including pipe sizes and access requirements.
- Recommending condition assessment technologies and procedures for both types of pipe material.
- Determining a methodology to access the riser pipes, investigate conditions, and to assess any other forms of degradation of the riser pipes.
- Developing a strategy to drain and isolate the riser pipes.
- Developing a comprehensive list of vendors that can perform the assessment, including local and approved SWMBE vendors.
- Developing an engineer's estimate of the cost to perform the condition assessment.
- Preparing a report for the District.

RESOLUTION

Change Order Request, Contract J01019P01, Jones Island Force Main Assessment,
and Restore the Executive Director's Original Delegated Authority

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized and directed to execute a change order to Contract J01019P01, Jones Island Force Main Assessment, with Brown and Caldwell, in an amount not to exceed \$91,000, and that the Executive Director's original delegated authority is restored.