

**AGENDA ITEM SUMMARY FORM**

**PROPOSED MEETING DATE:** June 16, 2021  
**PREPARED BY:** Frank T. Phelan, P.E.  
**DEPARTMENT:** City Engineer

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**AGENDA ITEM DESCRIPTION:**

Consideration, discussion, and possible action on a Statement of Work for George Butler Associates, Inc. for the Manor I&I Program.

**BACKGROUND/SUMMARY:**

Presently the City of Manor is experiencing significant Inflow and Infiltration (I/I) into the City's wastewater collection system. This migration of surface stormwater and groundwater into the collection system reduces available system capacities for conveyance and treatment of municipal sewage. Additionally, peak wet weather flows that include large quantities of I/I water can lead to collection system bypasses (spills) and excursions (effluent violations) at the City's wastewater treatment works.

The attached proposal for a coordinated I/I program will enable the City to quantitatively analyze the entire wastewater collection system. Creation of a complete Geographical Information System (GIS) map of the collection network will establish unique identifiers for all system elements and basins, and establish desired locations for metering, rainfall and groundwater monitoring. Analysis of normalized collection system flow data against established benchmarks will quantitatively identify the areas with the system that exhibit normal, high and excessive I/I.

Once collection system basins have been ranked, a targeted sanitary sewer evaluation study (SSES) can be performed to identify specific I/I sources within the CITY's collection system. This program is developed as part of a multi-year approach to I/I mitigation that will maximize the available capacities of the City's collection and treatment works and reduce the likelihood of bypasses and excursions.

As a result of these findings, this will ultimately help to drive budgetary decisions for system rehabilitation in the future. Prioritized, recommended repairs will be made based on the resulting prioritization of I/I sources. The goal being to most effectively enhance longevity of the existing system and minimize the need for more costly repairs that otherwise would not have been identified.

**LEGAL REVIEW:** Not Applicable  
**FISCAL IMPACT:** Yes  
**PRESENTATION:** Yes  
**ATTACHMENTS:** Yes

- Statement of Work

**STAFF RECOMMENDATION:**

It is the City staff's recommendation that the City Council approve the proposed Statement of Work #4 to the existing Master Services Agreement with George Butler Associates, Inc. for the Manor I&I Program in the amount of \$143,324.00.

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<b>PLANNING &amp; ZONING COMMISSION:</b>	<b>Recommend Approval</b>	<b>Disapproval</b>	<b>None</b>
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