

**COMMISSION FILE NO:** 17-082-9 **DATE INTRODUCED:** September 11, 2017

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

**REFERRED BY COMMISSION CHAIRPERSON TO:** Operations Committee

**RELATING TO:** Approval of Funding Agreement FR07 Under Project M03044, 2017 City of Franklin Private Property Inflow and Infiltration Reduction Project

**SUMMARY:**

The Commission is requested to authorize and to direct the Executive Director to execute on behalf of the District Funding Agreement FR07 in the amount of \$465,830 for work outlined in Work Plan FR07 as submitted by the City of Franklin under project M03044, Private Property Inflow and Infiltration (PPI/I) Program. Including this Work Plan FR07, the City of Franklin has obligated 77% of the funding available to the City through 2017 in the PPI/I Program.

The City of Franklin has completed six PPI/I projects to date including lateral lining and foundation drain disconnection on S. 37<sup>th</sup> Place and S. 36<sup>th</sup> Street within the proposed project area. Persistent drainage issues in the project area present an opportunity for the City to combine the PPI/I work with green infrastructure to achieve a sustainable solution to manage stormwater for the residential parcels within the project area.

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

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08-23-17

**COMMITTEE ACTION:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**COMMISSION ACTION:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

## **SUMMARY (Cont'd)**

### **Approval of Funding Agreement FR07 Under Project M03044, 2017 City of Franklin Private Property Inflow and Infiltration Reduction Project**

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From 2011 through 2014, the City of Franklin completed six PPI/I projects through the District program to investigate and remediate excessive sanitary flows in an area of the City with the oldest infrastructure. Within the proposed project area, 64 sanitary laterals were rehabilitated and 12 foundation drains were disconnected representing 100% resident participation on S. 37<sup>th</sup> Place and S. 36<sup>th</sup> Street between Madison Boulevard and Missouri Avenue. The project area has a history of high groundwater and surface water drainage issues. The residential parcels within the project area have minimal topographic relief, and stormwater is managed by small grass ditches. With PPI/I reduction estimated to be 80% to 90% and foundation drain water directed to surface, drainage issues persist in the project area. While a traditional solution is to install a stormwater pipe to convey surface water to a nearby stream, the City of Franklin proposes to combine the benefits of the PPI/I work completed with the benefits of green infrastructure and install a system of infiltration trenches and a centralized bioretention basin.

The City has completed preliminary engineering for the proposed solution to alleviate the drainage issues in the project area. The existing grass ditches will be excavated and refilled with an engineered cross section of a clear stone encased perforated tile covered with topsoil and vegetation. The engineered swales will infiltrate surface water including downspout discharge and foundation drain discharge, conveying the water to the centralized bioretention basin that will be constructed near the intersection of W. Madison Boulevard and S. 36<sup>th</sup> Street. The City completed an alternative cost analysis for the typical grey piped solution versus the proposed green infrastructure solution and concluded the green infrastructure solution is approximately half the cost of the grey solution with the added benefit of water quality improvement.

The total project cost is estimated to be \$637,700. The Commission approved \$171,858 in Green Solutions funding through Resolution 17-057-6 in June 2017. The PPI/I program funding requested through this action is anticipated to complete construction of the project. The City has contributed approximately \$26,000 toward staff and engineering consultant costs to date for preliminary engineering of the proposed project.

The project is anticipated to be publicly bid and start construction in the fall of 2017, and complete construction in the spring of 2018.

Including this Work Plan FR07, the City of Franklin has obligated 77% (\$1,641,221/\$2,128,120) of the funding available to the City through 2017 in the PPI/I Program.

## **RESOLUTION**

Approval of Funding Agreement FR07 Under Project M03044, 2017 City of Franklin  
Private Property Inflow and Infiltration Reduction Project

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**RESOLVED**, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized and directed to execute on behalf of the District Funding Agreement FR07 in the amount of \$465,830 for work outlined in Work Plan FR07 as submitted by the City of Franklin under project M03044, Private Property Inflow and Infiltration Program.