



## Legislation Text

File #: 2924-2018, Version: 1

1. **BACKGROUND:** This legislation authorizes the Director of Public Utilities to renew an existing professional engineering agreement with Arcadis US, Inc. for the Jackson Pike Waste Water Treatment Plant (JPWWTP) Cogeneration Project, CIP 650250-100007. The Jackson Pike Wastewater Treatment Plant creates large amounts of methane rich digester biogas which is now burned in flares as a waste product. A recent feasibility study shows that installing a cogeneration system can beneficially use this biogas as fuel to create electricity that will supply about half the total electricity the plant uses, with an acceptable payback period and significant overall reductions in greenhouse gas emissions. The cogeneration system will be relatively large and complex. This project also includes design work for replacing certain plant boilers at the end of their useful life and installation CMT (construction management team) facilities. This project will also provide design for outstanding stormwater variances remaining from other TE projects. This renewal purchases the detailed design services for the project. Future legislation will purchase the step 3 services during construction. Construction will generally be accomplished by others.

The construction work will occur at the Jackson Pike Wastewater Treatment Plant, in Columbus Planning Area 17, Greenlawn/Frank Road.

1.1 **Modification Information: Amount of additional funds \$2,309,950.00**

Original Contract (Preliminary Design)	\$1,025,883.00
Renewal #1 (Detailed Design 2018)	\$2,309,950.00
Renewal #2 (Anticipated 2021)	<u>\$1,952,374.00</u>
Estimated Contract Total	\$5,288,207.00

1.2 **Reasons additional goods/services could not be foreseen:**

This is a planned renewal.

1.3 **Reason other procurement processes are not used:**

Re-bid of the project will likely result in a higher project costs as much of the project history would be lost and would need to be rediscovered by another consultant unless the new RFP were won by the same consultant. In such a case, we would have missed significant time in acquiring and evaluating the new proposals without significant benefit.

1.4 **How cost of modification was determined:**

Costs were negotiated between the Division of Sewerage and Drainage and Arcadis US, Inc.

2. **PROJECT TIMELINE:** This Engineering Agreement authorizes the Detailed Design work which is expected to begin on third quarter 2018, and end on third quarter 2019. An additional renewal is expected to authorize the Services during construction work third quarter 2019 and end on third quarter 2021. Construction will be done by others.

3. **EMERGENCY DESIGNATION:** Emergency action is not requested at this time

4. **CONTRACT COMPLIANCE NO:** 57-0373224 | Exp. 5/18/2019 | DAX Vendor #009409

5. **ECONOMIC / ENVIRONMENTAL IMPACT:** This project provides design work to install a cogeneration system that will use the facility's biogas, now burned in flares as a waste product to create large amounts of electricity. The updated lifecycle cost analysis from preliminary design show a savings in electrical costs, which helps to offset the capital and operating costs of the improvement. A detailed feasibility study shows a large overall reduction in annual greenhouse gas emissions. The system will reduce overall greenhouse emissions by more than 4,000 tons a year of equivalent CO<sub>2</sub>. This project includes designing stormwater detention BMPs (Best Management Practices) and floodwater compensatory cut that is needed to meet previous

stormwater commitments. These improvements will help to protect the water quality of the Scioto River.

6. **FISCAL IMPACT:** This legislation authorizes the transfer within of \$1,075,864.00 and the expenditure of up to \$2,309,950.00 from the Sanitary Sewer General Obligation Bond Fund 6109 and amends the 2018 Capital Improvements Budget.

To authorize the Director of Public Utilities to renew an existing professional engineering agreement with Arcadis US, Inc. for the Jackson Pike Waste Water Treatment Plant (JPWWTP) Cogeneration Project; to authorize the transfer within of \$1,075,864.00 and the expenditure of up to \$2,309,950.00 from the Sanitary Sewer General Obligation Bond Fund, and amend the 2018 Capital Improvements Budget.

**WHEREAS**, the original contract, Purchase Order 071394 was authorized by Ord 1329-2017; passed June 12, 2017; executed by the Director on July 13, 2017; approved by the City Attorney's office on July 14, 2017 and certified by the City Auditor on July 17, 2017; and

**WHEREAS**, it is necessary to authorize the Director of Public Utilities to renew an existing professional engineering agreement with Arcadis US, Inc. for the JPWWTP Cogeneration Project, CIP 650250-100007; and

**WHEREAS**, it is necessary to authorize the transfer within of \$1,075,864.00 and the expenditure of up to \$2,309,950.00 from the Sanitary Sewer General Obligation Bond Fund, Fund 6109; and

**WHEREAS**, it is necessary to authorize an amendment to the 2018 Capital Improvements Budget for purposes of providing sufficient expenditure authority for the aforementioned project expenditure; and

**WHEREAS**, it has become necessary in the usual daily operation of the Division of Sewerage and Drainage, Department of Public Utilities, to authorize the Director of Public Utilities to renew (R#1) an existing professional engineering agreement with Arcadis US, Inc. for the JPWWTP Cogeneration Project, CIP 650250-100007 for the preservation of the public health, peace, property, safety and welfare; **now, therefore**

**BE IT ORDAINED BY THE CITY OF COLUMBUS:**

**SECTION 1:** That the Director of Public Utilities is hereby authorized to renew an existing professional engineering agreement with Arcadis US, Inc. 100 E. Campus View Blvd., Suite 200, Columbus, Ohio 43235 for the Jackson Pike Waste Water Treatment Plant Cogeneration Project, CIP 650250-100007 in accordance with the terms and conditions of the contract on file in the Office of the Division of Sewerage and Drainage.

**SECTION 2:** That the City Auditor is hereby authorized to transfer \$1,075,864.00 within the Sanitary Sewer General Obligation Bond Fund 6109, per the accounting codes in the attachment to this ordinance.

**SECTION 3:** That the Director of Public Utilities is hereby authorized to expend up to \$2,309,950.00 from the Sanitary Sewer Bond Fund 6109 for the Jackson Pike Waste Water Treatment Plant Cogeneration Project, per the accounting codes in the attachment to this ordinance.

**SECTION 4:** That the 2018 Capital Improvements Budget is hereby amended as follows:

<u>Fund</u>	<u>Project No.</u>	<u>Project Name</u>	<u>Current Authority</u>	<u>Revised Authority</u>	<u>Change</u>
6109	650871-110173	Roof Redirection Clintonville 1 Blenheim Glencoe	\$7,200,000	\$6,124,136	(-\$1,075,864)
6109	650250-100007	Jackson Pike WWTP Cogeneration	\$1,234,086	\$2,309,950	(+\$1,075,864)

**SECTION 5.** That the said firm, Arcadis US, Inc. shall perform the work to the satisfaction of the Director of Public Utilities and the Administrator of the Division of Sewerage and Drainage.

**SECTION 6.** That the City Auditor is hereby authorized and directed to transfer any unencumbered balance in the project account to the unallocated balance within the same fund upon receipt of certification by the Director of the Department administering said project that the project has been completed and the monies no longer required for said project; except that no transfer shall be made from a project account by monies from more than one source.

**SECTION 7.** That the City Auditor is authorized to establish proper project accounting numbers as appropriate.

**SECTION 8.** That the funds necessary to carry out the purpose of this ordinance are hereby deemed appropriated, and the City Auditor shall establish such accounting codes as necessary.

**SECTION 9.** That the City Auditor is authorized to make any accounting changes to revise the funding source for all contracts or contract modifications associated with this ordinance.

**SECTION 10.** That this Ordinance shall take effect and be in force from and after the earliest period allowed by law.