

**CITY OF WAUKESHA****Administration**

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| <b>Committee:</b><br>Board of Public Works   | <b>Date:</b><br>6/6/2019  |
| <b>Common Council Item Number:</b><br>ID #19-0775  | <b>Date:</b><br>6/18/2019   |
| <b>Submitted By:</b><br>Fred Abadi, Director of Public Works   | <b>City Administrator Approval:</b><br>Kevin Lahner, City Administrator |
| <b>Finance Department Review:</b><br>Rich Abbott, Finance Director RA  | <b>City Attorney's Office Review:</b><br>Brian Running, City Attorney   |
| <b>Subject:</b><br>Review and act on Contract Change Order No. 1 to the Consulting Services Contract with Jacobs Engineering Group, Inc., for the Return Flow Pump Station and Advanced Phosphorus Treatment with Facilities Enhancements project for the Clean Water Plant. |   |

**Details:**

Jacobs was tasked to coordinate with the Water Utility consultant in charge of the Lake Michigan project, Greely Hansen, on the surge analysis for the pipeline. A decision was made by Greely Hansen in the preliminary design phase to add a surge tank at the pump station to mitigate water hammer. Also in preliminary design, the City decided on a "canned" type of wet well for the pumps. Overall this reduces construction cost, however, to properly size pump alternatives, computational fluid dynamics modeling will be added to the specifications. Two other items added to the scope were: 1) addition of electric actuators on the gates being replaced in building 110; and, 2) designing new pump bases for the 140 building replacement pumps.

**Options & Alternatives:**

A different engineer could be used for these design services. However, it would greatly complicate coordination.

**Financial Remarks:**

The original contract is \$1,526,954 with an additional \$10,000 of "if authorized" fee for phosphorus design. This amendment is for an additional \$122,971. Of that, \$103,289 is for the return flow pump station, and \$19,682 for the other facility enhancements. For pump station; \$68,214 is for design, and \$35,075 for construction services. For facility; \$12,998 is for design, and 6,684 for construction services. Pump station is account 7390-68290-71815 and would require a budget amendment for 2019 P.O. of \$68,214. The facility enhancements account 7399-68290-71490 and would require a budget amendment for 2019 P.O. of \$12,998. All costs are eligible for reimbursement under the Clean Water Fund Loan.

**Executive Recommendation:**

Recommend approval of Contract Change Order No. 1 to the Consulting Services Contract with Jacobs Engineering Group, Inc., for the Return Flow Pump Station and Advanced Phosphorus Treatment with Facilities Enhancements project for the Clean Water Plant.

