



April 24, 2017

Brian Slizewski, Senior Project Engineer  
City of Ann Arbor  
Procurement Unit, 5th Floor  
301 East Huron Street  
Ann Arbor, MI 48107

Re: Sanitary Sewer Improvements Preliminary Engineering Project  
Addendum for Requested Additional Services in the Pittsfield Valley Area

Dear Mr. Slizewski:

As part of the Sanitary Sewer Improvements Preliminary Engineering Project, OHM did metering and sanitary sewer evaluation survey (SSES) work in the Pittsfield Valley/Darlington Subdivision Area. As part of this metering we also metered the area to the west of the Darlington Subdivision. This metering was used to determine if the SSES analysis should be expanded to include this additional area. The metering of this area indicated a high rate of flow during wet weather, and the City has requested that SSES be completed in the expansion area.

Per your request, we have prepared an addendum to our existing contract to perform SSES in the Pittsfield Valley expansion area. This work will follow the same scope, approach and pricing as the original area. It is anticipated that OHM will begin field work when this proposal is approved and the final report will be completed by October 31, 2017. Specific tasks included in this addendum are:

**Task 1 – Project Management & Public Engagement:** It is anticipated that a project update meetings will occur bi-weekly to discuss public engagement and upcoming field work. When possible, meetings will be held as conference calls to conserve the City staff time. Public engagement activities are expected to be the same as the Darlington Subdivision Area, which consisted of two public meetings.

**Task 2 – Perform SSES:** Review CCTV (to be performed by City), perform manhole inspections, and and perform smoke testing to quantify I&I from public sources.

**Task 3 – Prepare an I & I Water Budget:** The water budget will estimate the breakdown in flow sources from manholes, sanitary sewer pipes and footing drains.

**Task 4 – Update the Model:** The model will be updated with the information collected and observed in the field.



**Task 5 – Sanitary Sewer Improvement Preliminary Design:** Prepare preliminary design of improvement alternatives which will include a site visit to determine constructability and preliminary Cost estimates for construction.

**Task 6 – Final Report:** A final report will be prepared consistent with the SSES reports that were prepared for Darlington Subdivision.

**Fee Summary for Ongoing Flow Meter Support**

Task	TOTAL
Task 1 - Project Management & Public Engagement	\$12,568
Task 2 - Perform SSES	\$47,242
Task 3 - Prepare an I&I Water Budget	\$5,976
Task 4 - Update the Model	\$13,706
Task 5 – Sanitary Sewer Improvements Preliminary Design	\$3,028
Task 6 - Final Report	\$9,301
<b>Total</b>	<b>\$105,333</b>

These estimates are based on the same billing rates and production assumptions that are in place with our current contract for the SSIPE project. Please let us know if you have any questions about this addendum.

Respectfully,

OHM Advisors

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Robert S. Czachorski, PE  
Principal