



*Pride in the Details. Passion in our People.*

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March 6, 2012

Mr. Jeff Feltz  
Water Resource Engineer  
City of Gahanna  
200 South Hamilton Road  
Gahanna, OH 43230

**RE: Engineering Services Proposal  
Water Distribution System Model Update**

Dear Mr. Feltz,

Per your request, submitted herewith is W.E. Stilson Consulting Group's (WESCG) proposal to provide engineering services for the study and update report on the Water Distribution System Model for the City of Gahanna.

The study will include review of the current and future usage demands for the area, additions of new water lines and system upgrades, analysis and optimization of the current and future distribution system, an updated computer model of the system, and recommendations future development of the distribution system.

**UPDATE OF 2008 WATER DISTRIBUTION SYSTEM MODEL/REPORT**

- **Pre-Design**  
WESCG personnel are familiar with the City's current Water Distribution System Model. We will review the current model along with recent additions to the system since the last update. We will also consider available City GIS mapping and detailed record drawings of any recent projects.
- **Modeling**  
WESCG personnel will utilize the current WaterCAD computer model as provided by the City. We will add updated water lines and improvements into the model and run the model to analyze the system for pressure problems in its current configuration as well as a future configuration that reflects current growth and development trends for the City. We will also run fire flow scenarios for the current model to determine the fire limits of the system. We will review data from the modeling and recommend future Capital Improvement Projects for the City.
- **Jefferson Township Emergency Connections**  
WESCG personnel will utilize the updated WaterCAD computer model to run model scenarios for three emergency connections to Jefferson Township, locations to be provided by the City.

WESCG will review Jefferson Township's existing system pressure zones, however Jefferson Township's system will not be included in the model, only demand nodes at the connection points to show potential water supply.

- **Science Blvd. PRV**

WESCG personnel will design/add a pressure reducing valve (PRV) to the model on Science Blvd. between Intermediate Zone 2 and the Low Zone. WESCG will provide a construction cost estimate for the PRV.

- **Report**

A report will be created based upon our analysis of the City's existing model, data obtained from the updated model, information assimilated from a meeting with City of Gahanna personnel, and the existing water distribution system update. With growth rate and/or projection data supplied and endorsed by the City, the report will detail current and future demands on the system, show a design year for the future system model, list updates that have been completed to the system since the last water model update, and give recommendations for future system improvements to improve pressure problems within the system. The report will also give estimated costs for the proposed future improvements.

- **Meetings**

WESCG personnel will meet with City officials at the beginning of the project to gather information on recently completed projects, existing system characteristics, and to discuss future water demand projections. We will meet once with the City and Jefferson Township to discuss existing system conditions. We will also meet with City officials after the model simulations have been completed. This meeting will detail our findings and address any other information or data needed to finalize the report.

All engineering services described and set forth in this proposal will be completed within two months, after notification to proceed, exclusive of review times.

For the above mentioned engineering service, we propose a lump sum fee of \$14,200.00. The fee will be billed monthly based upon percentage of completion. Please see the attached breakdown of cost, by task.

We appreciate the opportunity to submit this proposal. Should you need additional information or have questions, please contact us at 614-847-4670; we are available at your convenience.

Sincerely,

W.E. STILSON CONSULTING GROUP



Kevin J. Grathwol, P.E.  
Vice President



Kyle M. Schwieterman, P.E.  
Municipal Project Manager

## FINAL DEVELOPMENT PHASE PROPOSAL COST SUMMARY

C/R/S :

Water Distribution System Model Update

CLIENT:

City of Gahanna, Ohio

CONSULTANT:

W.E. Stilson Consulting Group, LLC

DATE:

3/6/2012

Task - Description	Total Hours	Total Cost
PRE-DESIGN	5	\$500
MODELING	74	\$7,700
REPORT	50	\$4,800
MEETINGS	8	\$1,200
PROJECT TOTAL	137	\$14,200
GRAND TOTAL		\$14,200

