



cityofnovi.org

# CITY of NOVI CITY COUNCIL

Agenda Item I  
May 12, 2008

**SUBJECT:** Approval of a contract amendment to Stantec Consulting Michigan, Inc. to provide additional engineering services for the Water Distribution Study and Master Plan project in the amount of \$5,500.

**SUBMITTING DEPARTMENT:** Engineering *RT*

**CITY MANAGER APPROVAL:** *[Signature]*

EXPENDITURE REQUIRED	\$5,500
AMOUNT INCLUDED IN CIP	\$50,000 (\$33,500 was previously awarded for Engineering)
ADDITIONAL AMOUNT REQUIRED	N/A
LINE ITEM NUMBER	592-592.00-805.021 (Water and Sewer Fund)

### BACKGROUND INFORMATION:

This project was originally awarded to Stantec by City Council in February 2008 in the amount of \$33,500. The award amount reflected the scope provided in the request for proposals (RFP) which included a skeletonized model of the water system. A skeletonized model depicts the water distribution network's large pipes only. Stantec's proposal contained an optional task to model the entire water system (see excerpt of proposal, attached).

The model that was provided in the 2004 study and updated in 2006 was skeletonized and only modeled the water mains that were 12-inch and larger. For a global look at the water system, skeletonized models are adequate; however the DEQ has changed the requirements for permitting which relies more heavily on water model data. The inclusion of the additional modeling will also provide the City with the opportunity to review localized pressure and fire flow deficiencies. Not only will a complete system model assist Engineering staff in providing more accurate data for reporting to DEQ, but will allow Engineering to better assist the Water and Sewer personnel with "what if" scenarios to address operational issues, such as pressure surges from Detroit Water and Sewerage Department (DWSD) that have caused recent water main breaks. The inclusion of the additional modeling will also provide the City with the opportunity to review localized pressure and fire flow deficiencies.

**RECOMMENDED ACTION:** Approval of a contract amendment to Stantec Consulting Michigan, Inc. to provide additional engineering services for the Water Distribution Study and Master Plan project in the amount of \$5,500.

	1	2	Y	N
Mayor Landry				
Mayor Pro Tem Capello				
Council Member Crawford				
Council Member Gatt				

	1	2	Y	N
Council Member Margolis				
Council Member Mutch				
Council Member Staudt				

## SCOPE OF WORK



### VALUE ADDED OPTIONS

#### FUNDING REVIEW (INCLUDED TASK)

Stantec understands the importance of securing funding resources to facilitate the implementation of water system needs, specifically, when these needs stem from deficiencies in the existing system. Stantec further understands that growth related system improvements may in some cases be secured by allocating system improvement costs to developers. As a value added enhancement, Stantec would evaluate the short and long term improvement needs for the water system, evaluate possible funding options ( DWRP, SAD, capital improvements), and recommend funding strategies for the specified improvement . Under this option, Stantec would also initiate contact with funding agencies, if applicable, to further evaluate the feasibility of the recommended options. There would be no additional cost for this service, which is already included in the base fee contained in the fee proposal portion of this proposal.

#### ADDITIONAL MODEL DEVELOPMENT (OPTIONAL TASK)

Stantec understands that the current request is to model the major distribution lines of the system of 12-inch diameter and greater. As a value added enhancement, Stantec would include all pipes of the distribution system in the hydraulic model. The inclusion of these pipes would provide the City with the opportunity to review localized pressure and fire flow deficiencies. This enhancement would include demand development based on the additional nodes developed to include all pipes within the City.

Please note this task would not include an investigation of potential capital improvements for water mains of less than 12 inch diameter, only the hydraulic analysis described above. This is due to the unknown number of deficiencies in water mains less than 12 inches. After review of the deficiencies by Stantec and the City, a determination of required deficiency improvements can be developed and a separate fee (to include them in the master plan) could be negotiated. The cost for this additional hydraulic modeling option would be \$5,500 in addition to the base fee contained in the fee proposal portion of this proposal. This task would be incorporated into the provided schedule without increasing the final completion date of the Master Plan.