



CITY OF GRAND RAPIDS AGENDA ACTION REQUEST

DATE: June 20, 2014

TO: Gregory A. Sundstrom, City Manager

COMMITTEE: Community Development Committee
LIAISON: Eric DeLong, Deputy City Manager

FROM: Mike Lunn, ESD Manager
Haris Alibasic, Office of Energy and Sustainability Manager
Suzanne Schulz, Planning Director

SUBJECT: **Professional Services Agreement – TetraTech
Planning for Stormwater Mitigation, Green Infrastructure and
Climate Change**

The City completed a [Stormwater Master Plan](#) in May 2013, which included a 20-year citywide asset management and capital improvement plan for the public stormwater infrastructure system. The plan demonstrates how the City's goal of establishing and delivering a "C" Level of Service may be achieved through effective and sustainable management of the stormwater system. Several prospective bids were evaluated during the master plan phase and this work continues the implementation of the Stormwater Master Plan.

Level of Service "C" is intended to allow the City to determine critical infrastructure and identify high priority areas. Refer to Table 4-3 in the Stormwater Asset Management and Capital Plan. Key elements of this Level of Service include:

- Funding would increase for O&M to allow for the assessment of the entire collection system greater than 75 years old every 10 years. Funding also assumes performing corrective maintenance where necessary and preventative maintenance on 10 percent of all inspected assets.
- Inspection of 50 percent of culverts annually, along with replacing or renewing the worst 5 percent.
- Inventory and inspection of approximately 4 miles each of open channels and ditches annually with funding for preventative maintenance, and establishing a minimal annual renewal program.
- Inspection of all discharge points every 5 years, with corrective maintenance to repair or replace the top 10 percent worst condition each year.

- Inspections and routine maintenance on other system assets would be organized so that pertinent data are collected and stored in the GIS database.
- 10 percent of all new capital spending would be directed towards green infrastructure.
- Regulatory spending would be increased to establish a public education program.
- Capital spending would be based on an assumed system replacement every 150 years, with catch basins and laterals assigned a 100 year replacement cycle.

To support the management and maintenance of infrastructure and to provide for a paradigm shift in stormwater management, sixteen (16) recommendations were made. Several of the recommendations are currently moving forward (ordinance review and revision, GIS Data Management, Public Education) either internally or in partnerships with Stakeholders and/or the Lower Grand River Organization of Watersheds (LGROW). There were five (5) recommendations with which the consultant will assist that are related to planning for Stormwater Incentives, Mitigation, Grants, Green Infrastructure and Climate Change. Summaries of each section of the project, from the recommendations in the Master Plan, are presented below.

Stormwater Incentives

Develop incentive mechanism to encourage the use of green infrastructure practices on private property. Examples of incentive programs include grants, rebates, installation financing, awards, recognition programs, and development incentives such as zoning upgrades, and reduced stormwater requirements.

Stormwater Mitigation

Develop a compensatory mitigation program for stormwater with on-site mitigation, mitigation banking, and environmental credit trading approaches.

Grant Opportunities

Develop and maintain a list of grant project ideas, identifying the project phase (study, design, construction, or monitoring), an estimated budget and common project partners who would be involved. Identify a list of commonly available grant programs of interest, eligibility requirements, and the approximate schedule.

Green Infrastructure Opportunity Assessment

The purpose of an opportunity assessment for green infrastructure is to identify locations where green infrastructure can work. These opportunities are divided into two groups for analysis purposes. The first group looks for locations of large discrete practices and is commonly done through a GIS analysis approach. The second group looks at distributed

systems with an analysis focused on developing typical designs, standard details, unit life cycle costing and implementation strategies. The assessment should also identify opportunities to daylight creeks and streams that are currently enclosed in a pipe. The green infrastructure analysis should be coordinated with the TMDL and MS4 permit issues as well as other community sustainability issues.

Planning for Climate Change

Evaluate the state-of-the-art climate change information in order to recommend revised hydrologic design standards, e.g. the anticipated intensity, duration, and frequency for precipitation events. Update the Stormwater Technical Reference manual accordingly with the agreed upon revised standards. Include in the update, recommended methodologies to be used in the hydrologic calculation for stormwater projects.

ESD, Planning Department and the Office of Sustainability will have the lead in this project along with the Stormwater Oversight Commission, partnerships from various departments (Parks, Streets and Engineering), and stakeholders during the process. The cost for the consultant, City GIS work and Engineering is \$435,640.82 and will be funded through the Street Capital Fund, as approved by the City Commission on June 10, 2014.

<u>Sources/Appropriations</u>	<u>Project Description</u>	<u>Amount</u>
4490GCP401-9800-44C402	Consultant Services	\$360,800.00
4490GCP401-9800-44C402	GIS Work	\$ 10,720.82
4490GCP401-9800-44C402	Engineering	\$ 10,000.00
4490GCP401-9800-44C402	Contingencies	\$ 54,120.00
	Total	\$435,640.82

The attached resolution provides for the approval of an agreement with TetraTech for Professional Services, and authorizes the Mayor to execute the same, upon approval as to form by the City Attorney.

cc: Eric DeLong Ruth Lueders
Pam Ritsema Tricia Chapman
Nancy Recker Scott Saindon