

November 21, 2016

CITY COUNCIL AGENDA MEMORANDUM

SUBJECT

Resolution authorizing execution of the professional services agreement with Transpo Group to update the 2004 Intelligent Transportation Systems (ITS) Master Plan, in an amount not to exceed \$160,000.

FISCAL IMPACT

This action will obligate the City for up to \$160,000 in consulting services. This agreement will be fully funded through the ITS Master Plan Implementation Program (CIP Plan No. PW-R-156). Sufficient budget exists in this program to fully fund this agreement.

STAFF CONTACTS

Dave Berg, Director, 452-6468
Mach Poch, Assistant Director, 452-6137
Chris Long, Traffic Engineering Manager, 452-6013
Fred Liang, ITS Manager, 452-5361
Transportation Department

POLICY CONSIDERATION

Comprehensive Plan

Council has adopted numerous policies that support the application of ITS technologies to improve or enhance the transportation system. ITS technologies play a vital role in advancing Bellevue's Smart City Initiative to develop a Smart Transportation system that moves people, reduces collisions, lowers emissions and provides informed choices. ITS technologies also support the goals, policies and challenges mentioned in the City's Comprehensive Plan for Transportation to improve mobility and to enhance a comprehensive multimodal transportation system.

BACKGROUND

Intelligent Transportation Systems (ITS) refers to the application of advanced technology to transportation systems and projects. The use of ITS will increase the effectiveness and efficiency of the existing transportation system. A broad range of diverse technologies can help many of our transportation challenges, including signal operations, information processing, Transit Signal Priority (TSP), connected vehicles, communications, message signs, parking management, weather station, etc. These technologies and tools will provide the framework for improved management of mobility and traveler information.

In 2004, the City completed its first ITS Master Plan. The plan not only inventoried existing ITS technologies employed by the City at that time, but also provided a framework for ITS improvements, including the identification of the highest priority ITS projects. Much has been accomplished since the 2004 ITS Master Plan was completed, including Washington's first traffic adaptive signal system, a new fiber communication network and a significant expansion of the traffic camera system. Now is the right time to build upon this progress by updating Bellevue's ITS Master Plan. With the continuous development and advancement of various technologies, opportunity exists for the City to identify other

ITS deployments, enhancements or services that improve the transportation system, while providing a fiscally prudent investment. The ITS Master Plan Update will define and document how the City can best use ITS to meet future transportation system needs and will also prioritize the capital and staffing needs to build, operate and maintain additional ITS projects and programs. The scope of services is as follows:

- Provide overall project management throughout the duration of the project.
- Update the City's existing ITS inventory, using GIS.
- Conduct a literature review to incorporate all other City planning efforts and news from latest industry developments.
- Conduct a needs assessment looking at technology to support the future goals.
- Utilize a public outreach process to identify future travel information needs.
- Develop a communication plan that supports the future build-out of ITS in Bellevue.
- Update the deployment plan for future ITS implementation needs.
- Discuss budget and staffing needs to support future ITS projects.
- Document all project findings and outcomes in a final report and presentation.
- (Optional) Develop a Transportation System Management and Operations (TSMO) plan for the Bel-Red Neighborhood to establish a framework to integrate new innovative technologies in the Spring District.

Transpo Group was selected to provide the professional services. Transpo Group was one of two consulting firms who responded to the Transportation Department's "Request for Qualifications" for the ITS Master Plan Update. The two submittals were scored and ranked by six City staff and an engineer from City of Redmond.

Prior Council actions relating to development of ITS Master Plan

On October 20, 2003, Council approved the execution of the professional services agreement with DKS Associates to finish the development of the City's first ITS Master Plan.

EFFECTIVE DATE

If approved, this Resolution becomes effective immediately upon Council adoption.

OPTIONS

1. Adopt Resolution authorizing execution of the professional services agreement with Transpo Group to update the 2004 ITS Master Plan.
2. Do not adopt Resolution and provide alternative direction to staff.

RECOMMENDATION

Option 1

MOTION

Move to adopt Resolution No. 9185 authorizing execution of the professional services agreement with Transpo Group to update the 2004 Intelligent Transportation Systems (ITS) Master Plan, in an amount not to exceed \$160,000.

ATTACHMENT

Proposed Resolution No. 9185

AVAILABLE IN COUNCIL DOCUMENT LIBRARY

Contract