

CITY COUNCIL REGULAR SESSION

Resolution authorizing execution of a Professional Services Agreement with KPFF Consulting Engineers in the amount of \$361,376.53, plus all applicable taxes, to perform alternatives analysis and develop a conceptual design for the 148th Avenue SE at Larsen Lake Flood Mitigation project (CIP Plan No. PW-M-21).

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Jun An, Senior Project Manager, 452-4230
Transportation Department

EXECUTIVE SUMMARY

This Resolution authorizes the execution of Professional Services Agreement with KPFF Consulting Engineers, to perform alternatives analysis and develop a conceptual design to reduce or eliminate roadway flooding on 148th Avenue SE, between SE 8th Street and Main Street, adjacent to Larsen Lake, bounded by the Lake Hills Greenbelt.

RECOMMENDATION

Move to adopt Resolution No. 10103

BACKGROUND/ANALYSIS

On February 14 Council approved Ordinance No. 6650 amending the 2021-2027 General Capital Investment Program (CIP) Plan to create a new project entitled 148th Avenue SE at Larsen Lake Flood Mitigation Project (CIP Plan No. PW-M-21) with local funding of \$460,000. This initial phase to perform alternatives analysis and develop a conceptual design is funded by the local funding share of \$60,000 from savings from the 150th Avenue SE at SE Newport Way Project (CIP Plan No. PW-R-202) and \$400,000 from the King County Flood Control Zone District (District) through an interlocal agreement.

From 1999 through 2019, 148th Avenue SE near Larsen Lake has been fully or partially closed by the City on 23 separate events following moderate to heavy rain or longer duration rain events due to high water levels with subsequent flooding at culvert crossings in three separate locations between SE 8th Street and Main Street in the City of Bellevue. As the only major north-south arterial in east Bellevue with daily traffic over 33,000 vehicles, a designated truck route, and a critical commuting and emergency services access route between I-90 and SR 520, the City is highly motivated to keep this corridor open and operational without interruption.

Adjacent corridors that are impacted by the closures of 148th Avenue SE run through residential areas and do not have the capacity to manage the additional vehicles causing major traffic and safety issues. These problems will persist and increase as the roadway continues to sink and deform existing culverts under the roadway. In addition to roadway impacts and closures on 148th Avenue SE, the impacts of flooding are more widespread, threatening park lands, blueberry fields and nearby residences.

The City proposes to conduct a site assessment, perform alternatives analysis, and initiate preliminary design to reduce or eliminate roadway flooding on 148th Avenue SE. The work would also help the City identify how to improve high water flow capacity for Larsen Lake/Lake Hills Greenbelt to Kelsey Creek where it floods 148th Avenue SE during moderate to severe storm and longer duration rainfall periods.

Consultant Selection

After evaluating two consultant firms that responded to the City's Request for Qualifications (RFQ), KPFF Consulting Engineers was selected to be the City's engineering consultant for this project. A notice of the RFQ was published in *The Seattle Times* and *The Seattle Daily Journal of Commerce* on March 10, March 17, and March 24.

The following firms submitted proposals in response to the RFQ:

- KPFF Consulting Engineers
- AECOM Technical Services, Inc.

An interdepartmental City staff selection committee reviewed and ranked all proposals based on the evaluation criteria listed in the RFQ. Upon reviewing the submittals, the committee decided to select KPFF Consulting Engineers.

KPFF Consulting Engineers was selected because they recently delivered a similar project to the 148th Avenue SE at Larsen Lake Mitigation project successfully. KPFF Consulting Engineers presented a better understanding of the hydrological issues of this project, and solid knowledge of the engineering and technical issues of the project.

POLICY & FISCAL IMPACTS

Policy Impact

Mobility Management:

- TR-35. Design, maintain, and protect the transportation system to be resilient to disaster.

Roadways:

- TR-48. Maintain and enhance safety for all users of the roadway network.

Transportation Finance:

- TR-132. Support joint projects, including the contribution of city matching funds, with adjoining cities, King County, the transit providers, or the state, where such partnerships help establish or accelerate projects beneficial to the city.

Fiscal Impact

This action obligates the City to \$361,376.53, plus all applicable taxes, to perform alternatives analysis and develop a conceptual design for the 148th Avenue SE at Larsen Lake Flood Mitigation project. Sufficient funding exists in the 2021-2027 CIP 148th Avenue SE at Larsen Lake Flood Mitigation (CIP Plan No. PW-M-21) to fully fund this contract.

OPTIONS

1. Adopt the Resolution authorizing execution of a Professional Services Agreement with KPFF Consulting Engineers in the amount of \$361,376.53, plus all applicable taxes, to perform alternatives analysis and develop a conceptual design for the 148th Avenue SE at Larsen Lake Flood Mitigation project (CIP Plan No. PW-M-21).
2. Do not adopt the Resolution and provide alternative direction to staff.

ATTACHMENTS & AVAILABLE DOCUMENTS

- A. Vicinity Map
 - B. CIP Project Description (PW-M-21)
- Proposed Resolution No. 10103

AVAILABLE IN COUNCIL LIBRARY

Professional Service Agreement