

TO: City Council
FROM: Joseph Norman, Senior Engineer
DATE: March 4, 2025
SUBJECT: Traffic Signal Controller & Detection Upgrade, Equipment Purchase

1) Recommended Action:

Approve and authorize the Mayor to sign the equipment purchase orders for the Traffic Signal Controller and Detection Upgrade project. This equipment purchase was recommended for approval on the consent calendar by the Public Works Committee at their February 20, 2025 meeting.

2) Background:

The Traffic Signal Controller and Detection Upgrade project has received \$302,750 in CMAQ grant funding through TRPC. The project aims to manage air quality through increasing the efficiency of the transportation system. For this project, the efficiency added to the transportation system is directly related to the installation of new traffic signal controllers and vehicle detection systems. These new systems will allow staff to optimize the function of these signals, which will increase the efficiency of traffic flow through the intersections. All improvements are located at intersections within the TRPC PM10 air quality management area.

Project construction will be completed solely by City forces. The City employs qualified personnel who possess the skills necessary to complete the project.

This project requires purchasing specific traffic signal equipment so that our city signal systems are uniform and consistent. This will require a sole source purchase of equipment that has been approved by WSDOT Local Programs and is in compliance with the federal funds received. All signal equipment installed will meet federal BABA requirements (Buy America Build America).

3) Policy Support:

Strategic Priorities and Goals 2025-2026:

Create and Maintain a Transportation System Safe for All Modes of Travel – Provide a safe, efficient, and cost-effective transportation system.

4) Alternatives:

- Do not allow the sole source purchase of traffic signal controller and detection equipment.
 - Do not allow the use of City forces to complete the project.
 - Do not allow the utilization of City funds to complete the project
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5) Fiscal Notes:

The City has received from the Thurston Regional Planning Council (TRPC) a federal Congestion Mitigation and Air Quality Improvement Program (CMAQ) grant. The remaining balance is funded through the CFP ending fund balance.

6) Attachments:

- A. Traffic Signal Equipment Installation Map
- B. Traffic Signal Controller Quote
- C. Traffic Signal Detection Quote