



CITY OF KIRKLAND

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MEMORANDUM

To: Kurt Triplett, City Manager

From: Catherine Okamura, P.E., Capital Projects Engineer
Rod Steitzer, P.E., Capital Projects Manager
Julie Underwood, Interim Public Works Director

Date: October 8, 2020

Subject: MAINTENANCE CENTER STORM WATER POLLUTION PREVENTION PLAN
(SWPPP) UPGRADES - AWARD CONTRACT

RECOMMENDATION:

Staff recommends that the City Council award a contract for the construction of the Base Bid Schedule and Schedule B for the Maintenance Center Storm Water Pollution Prevention Plan (SWPPP) Upgrades Project to the lowest responsible bidder, Interwest Construction, Inc. of Burlington, WA, in the amount of \$767,421.77.

By taking action on this memo during approval of the consent calendar, City Council is authorizing the award of a construction contract.

BACKGROUND DISCUSSION:

The City of Kirkland (City) is a permittee under the National Pollutant Discharge Elimination System (NPDES) Phase II Municipal Stormwater Permit. The NPDES program is a requirement of the federal Clean Water Act and is implemented by the Department of Ecology in Washington State. The focus of the permit is to minimize the discharge of pollutants into the permittee's municipal separate storm sewer system (MS4), which then discharges into receiving waters (streams, wetlands, lakes, groundwater). To accomplish this, the Phase II Permit requires that all permittees develop a Stormwater Management Program (SWMP).

A required component of the SWMP is the implementation of an operations and maintenance (O&M) program designed to prevent or reduce illicit discharges from municipal operations and from municipally-owned stormwater facilities into the MS4. One requirement of the O&M program is the development of a Stormwater Pollution Prevention Plan for all City heavy equipment maintenance and storage yards, and material storage facilities. The SWPPP must be implemented at Kirkland's Maintenance Yard Facility located at 905 8th Street, Kirkland, Washington.

The Maintenance Center Storm Water Pollution Prevention Plan Upgrades (Project) is located in the City's Maintenance Yard and provides surface water upgrades to remain in compliance with the City's NPDES permit. This includes permanent cover and containment for decant materials,

street patching materials, and other potential erodible materials to prevent entry into the surface water drainage system or blown away by the wind.

As part of the Best Management Practices (BMPs) required by King County Code 9.12, covers must always be in place when a stockpile is not in active use. Existing stockpiles at the Maintenance Yard are currently covered with tarp to prevent erosion; however, the tarps must be manually placed and secured by staff when the materials do not need to be accessed. Benefits of permanent covered storage include a long-term solution for preventing erosion of materials and entering into the surface water drainage system, reliable protection and containment of the materials with more robust coverage, and more efficient operations at the Maintenance Yard by reducing the level of effort spent by staff to manually cover and secure frequently accessed stockpiles.

The Project consists of constructing covered storage bays for decant operations and potentially contaminated materials, and storm drain utility improvements. The bid consisted of a base bid and two alternative schedules as opportunities to add to the scope if favorable bids were received. The bid requirements are described as follows and shown in Attachment A, Vicinity Map:

- Base Bid Schedule meets the requirements of Kirkland’s NPDES permit (basis for award)
 - Bay 1-A will store street patching and asphalt waste materials.
 - Bay 4 will store decant spoils from maintenance operations including materials from street sweepers excavators, and trucks. The decant facility was installed in 2016 and allows liquid from material spoils to drain prior to waste haul of solids. Liquids are treated prior to discharge into the City’s sanitary sewer system.
- Alternate Bid Schedule A
 - Bay 1-B is for covered storage of vegetative spoils.
 - Alternate Bid Schedule B Bay 2 is for storage for potential erodible materials such as rock, gravel, and sand.

FUNDING:

With an engineer’s estimate of \$826,515.20 for the Base Bid Schedule, the Project was first advertised for contractor bids on September 9 and then on September 16. Bids were opened on September 23, 2020, with the City receiving four (4) contractor bids as shown in Table 1.

Table 1 – Bid Results

Contractor	Base Bid Schedule	Alternate Bid Schedule A	Alternate Bid Schedule B
Interwest Construction, Inc.	\$588,388.16	\$117,804.25	\$179,033.61
R.L. Alia Company	\$740,543.61	\$155,549.28	\$223,321.34
Rodarte Construction, Inc.	\$740,653.71	\$140,697.34	\$204,408.91
<i>Engineer’s Estimate</i>	<i>\$826,515.20</i>	<i>\$162,018.76</i>	<i>\$239,349.69</i>
Northwest Cascade, Inc.	\$1,212,872.61	\$229,808.98	\$353,814.61

Reference checks for Interwest Construction, Inc. were satisfactory, and the contractor has a history of successfully completing Public Works projects containing similar structural and utility components.

The Project is currently funded in the 2019-2024 CIP at \$1,040,000 with an additional funding of \$350,000 proposed in the 2021-2026 CIP for a total budget of \$1,390,000 (see Attachment B, Project Budget Report).

The total funding for options of award combinations of the Base Bid Schedule and Alternate Bid Schedules are shown below:

Table 2 – Funding vs Expenses Total (SDC 108)

Total Funding (Attachment B)	\$1,390,000		
Expenses	OPTION 1 Base Bid Only	OPTION 2 Base Bid + Alt Bid A	OPTION 3 Base Bid + Alt Bid B
Design/Inspection	\$225,477	\$232,477	\$235,477
Staff/Admin	\$195,180	\$195,180	\$212,480
Construction	\$588,388	\$706,192	\$767,422
Contingency (10%)*	\$58,839	\$70,619	\$76,742
Total Anticipated Expenses	\$1,067,884	\$1,204,468	\$1,292,121
Difference	+\$322,116	+\$185,532	+\$97,879

While it could have been possible to construct the base bid, Alternative Bid A and Alternative Bid B (all schedules), this option would have left a construction contingency less than the usual 10% contingency (5.8%); due to the complexity of the structural elements of the project, staff does not recommend this option at this time.

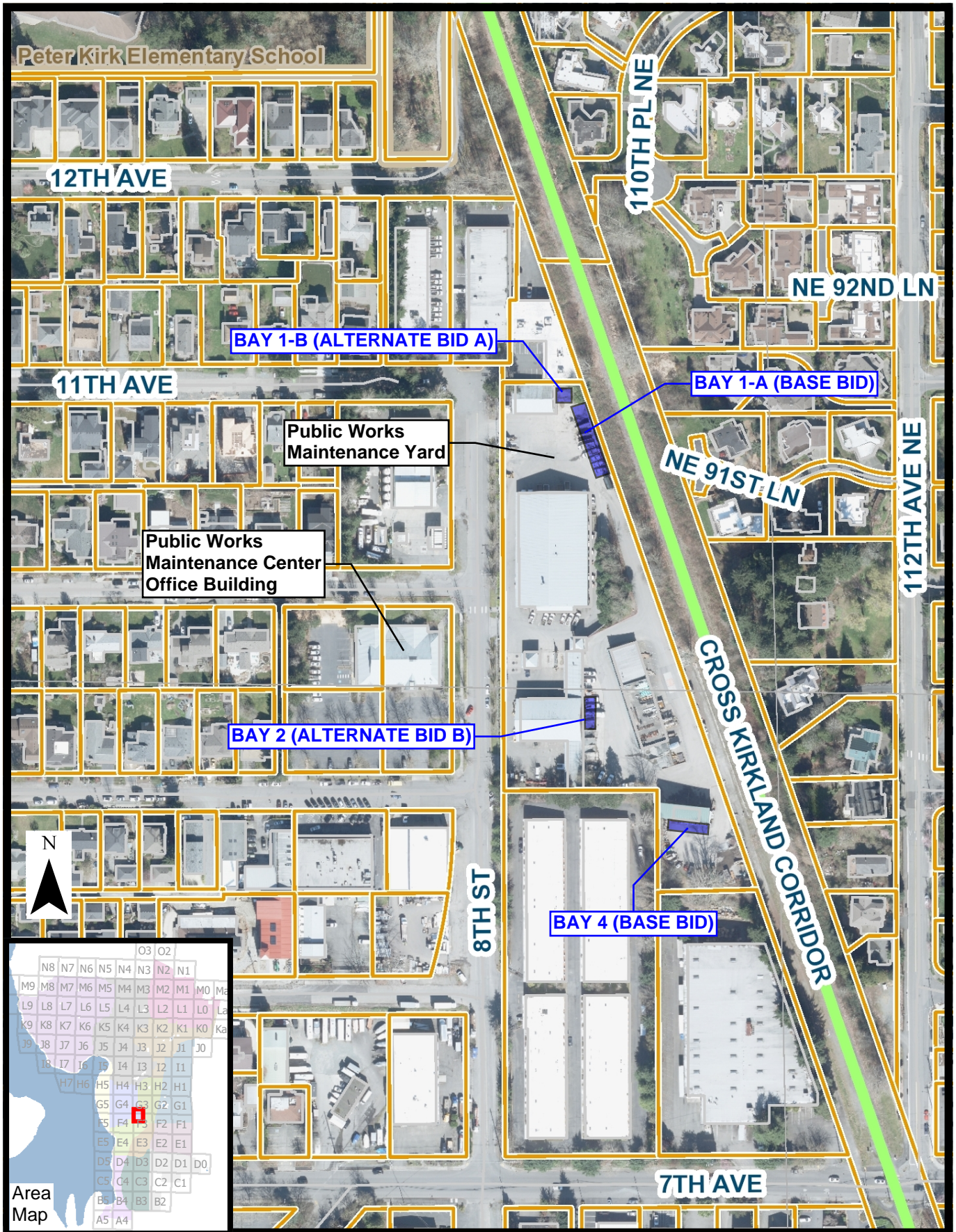
Based on the bid results, staff recommends awarding of the Base Bid and Alternate Bid Schedule B in the amount of \$767,421.77. Alternate Bid B was selected over Alternate Bid A because vegetative spoils stored in Bay 1-B, consisting mainly of prunings and tree trimmings, do not convey chemicals or fine materials that can be easily carried by water into the storm system compared to the materials stored in Bay 2. Since this recommendation does not include Alternative Bid A, staff will continue to manually cover the vegetation with plastic tarp.

Special inspection for geotechnical and structural elements to meet quality control requirements and in-house management and inspection are included within the current project funding level. This Project includes mostly vertical construction with some underground utility work. Staff recommends awarding this contract to meet the City's NPDES permit requirements and to also provide long-term benefits to both water quality and Maintenance Yard operations.

CONSTRUCTION PHASE:

The Project has an estimated 75-day construction duration and an award of the contract by City Council at its October 20th meeting will allow for a construction start in November 2020 with anticipated substantial completion in February 2021. In advance of construction, staff will send a construction informational mailer directly to nearby residents providing construction timelines and pertinent contact information. In addition, staff will add the Project's information to the [Public Works Projects Website](#), including the construction timeline and staff contact information.

- Attachment A: Vicinity Map
- Attachment B: Project Budget Report



Vicinity Map
 Maintenance Center Storm Water Pollution Prevention Plan (SWPPP) Upgrades

Maintenance Center Storm Water Pollution Prevention Plan (SWPPP) Upgrades
(SDC1080000)
PROJECT BUDGET REPORT

