



CITY OF KIRKLAND
Department of Public Works
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www.kirklandwa.gov

MEMORANDUM

To: Kurt Triplett, City Manager

From: George Minassian, P.E., Project Engineer
Dave Snider, P.E., Capital Projects Manager
Kathy Brown, Public Works Director

Date: June 9, 2016

Subject: ANNUAL STREET PRESERVATION PROGRAM (2016 PHASE II - STREET OVERLAY PROJECT) - AWARD CONTRACT

RECOMMENDATION:

It is recommended that the City Council take the following actions:

- Award the base bid plus additive alternate construction contract for the Annual Street Preservation Program (2016 Phase II - Street Overlay Project) to Watson Asphalt Paving Co., Inc., of Redmond, WA, in the amount of \$2,277,411.30; and
- Approve the use of the final remaining calculated budget balances from the 2015 Street Preservation Program, the NE 85th Street Overlay Project, and the available savings from a reduced purchase price of the milling machine to fully fund the 2016 Street Preservation Program.

By taking action on this memo during approval of the consent calendar, City Council is awarding the construction contract for the Phase II Overlay work associated with the Annual Street Preservation Program and approving the budget adjustment needed to award the Base Bid plus Additive Alternate.

BACKGROUND DISCUSSION:

The City uses a Pavement Management System to manage and prioritize preservation treatments throughout the City's street network. The Pavement Management System considers all City streets in terms of existing pavement condition index (PCI), prior maintenance histories, the City's annual budget for street preservation, and other factors to determine the most cost effective treatment. Once selected for treatment, candidate streets are then reviewed for potential conflicts with other construction projects (such as other CIP projects, private developments, Washington State Department of Transportation projects, private utility projects, etc.) before added to the current year's program list. For the 2016 Street Overlay Project, the highest ranking streets will receive subgrade preparation and repair, pavement milling, and the application of a new wearing surface layer of asphalt.

The 2016 Annual Preservation Program includes three phases. The Phase I component is the Curb Ramp & Concrete Repairs Project; the contract for Phase I was awarded by City Council at the May 3, 2016 council meeting, and that work is currently under construction. The subject Project (2016 Street Overlay Project) is the Phase II element of the Annual Street Preservation Program. The Phase III component is the Slurry Seal Project, which is scheduled to be bid in early June with a City Council award to follow and construction occurring during the drier months of mid to late summer.

With an engineer's estimate of \$2.58 million for providing asphalt overlay on a City-wide total of 10-lane miles (Attachment A), including a Base Bid (Schedules A – F) plus an additive alternate (Schedule G), the subject Phase II Project was first advertised on May 5, 2016. On May 19, 2016, three bids were received, as follows:

Table 1 – Bid Results

Contractor	Base Bid	Additive Alternate	Total of Base Bid Schedules
Watson Asphalt	\$1,568,603.80	\$708,807.50	\$2,277,411.30
Lakeside Industries	\$ 1,829,928.50	\$ 642,623.50	\$2,472,552.00
<i>Engineer's Estimate</i>	<i>\$ 1,930,402.55</i>	<i>\$ 647,546.00</i>	<i>\$2,577,948.55</i>
CEMEX	\$ 1,924,716.79	\$ 667,210.50	\$2,591,927.29

A comparison of the unit prices shows that the average cost of asphalt in 2016 decreased to \$73.08/ton from \$74.01/ton in 2015 (Attachment B); based on the bid results, all six base bid schedules and the seventh additive alternative schedule of work are being recommended for contract awarded, subject to the additional funding need discussed below.

Funding

Funding for the 2016 Annual Street Preservation Program is a combination of two revenue sources; the base CIP funding and Proposition 1 Levy funds. Additionally, savings from the 2015 Street Preservation Program, as well as the NE 85th Street Overlay Project have yielded remaining funds of \$62,000.

Table 2 - Available Revenue

Revenue Source	Amount
2013-2018 base CIP	\$ 1,750,000
Prop 1 Levy funds	\$ 2,300,000
Original 2015 -2020 CIP Program Total	\$4,050,000
Savings from Past Preservation Projects	\$62,000
Requested Total	\$4,112,000

Program Expenses

At the March 15, 2016 meeting, City Council authorized the use of \$170,048 from 2016 Street Preservation Program to be used towards the purchase of a milling machine. However, the final purchase price of the milling machine is \$14,129 (\$600,000 – \$585,871) less than anticipated. Staff recommends reducing the 2016 Street Preservation Program contribution for the milling machine to \$155,919 (\$170,048 - \$14,129).

The total of all known and anticipated expenses for the Annual Street Preservation Program in 2016 are as follows (also see Attachment C):

Table 3 – 2016 Street Preservation Expenses

Phase	Status	Amount
Engineering, Admin, Inspection	On-Going	\$ 665,900
Phase I Curbs and Ramps	Under Construction	\$ 486,165
Phase II Overlay	This Memo	\$2,277,411
Phase III Slurry Seal	Late Summer	\$ 400,000
Milling Machine Contribution	Ordered	\$ 155,919
Contingency	Balance Remaining	\$ 126,605
	TOTAL	\$4,112,000

Recommendation

Staff recommends City Council award the base bid plus the additive alternate (100th Ave NE, between NE 124th and NE 132nd Streets). Further, it is recommended City Council approve the use of the funds remaining on the 2015 Street Preservation Program and the NE 85th Street Overlay, plus the savings from the purchase of the City's milling machine to fully fund the 2016 Street Preservation Program. With an award of the construction contract at the June 21, 2016 meeting, staff will begin the pre-construction public outreach process by notifying adjacent property owners with an informational mailer describing the Annual Street Preservation Program. This information, along with a regularly updated construction schedule, will also be posted on the City's website. Construction notice signs will be installed on higher volume streets in advance of the overlay, and portable construction notice signs will be placed on residential streets a few days prior to construction. Door hangers describing the work will also be distributed to all adjacent homes and businesses at least 24 hours prior to construction.

- Attachment A – Vicinity Map
- Attachment B – Annual Cost Comparison
- Attachment C – Project Budget Report

2016 Street Overlay Project/CST1606

ATTACHMENT A

**Schedule B
84th Ave NE**

**Schedule C
132nd Ave NE**

**Schedule G
100th Ave NE
(Additive Alternate)**

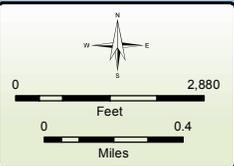
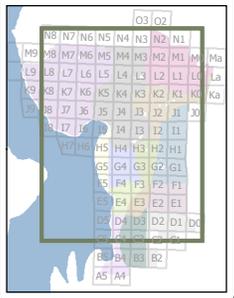
**Schedule E
93rd Ave NE**

**Schedule F
Slater Ave NE**

Name	From	To	Length
84th Ave NE	NE 136th St	NE 145th St	<i>to the City Limits</i>
132nd Ave NE	NE 137th St	NE 143rd St	<i>to the City Limits</i>
100th Ave NE	NE 124th St	NE 132nd St	
93rd Ave NE	Juanita Drive	NE 124th St	
Slater Ave NE	NE 116th St	NE 120th St	
NE 60th St	116th Ave NE	Ben Franklin ES	<i>Starts from east of ES</i>

**Schedule D
NE 60th St**

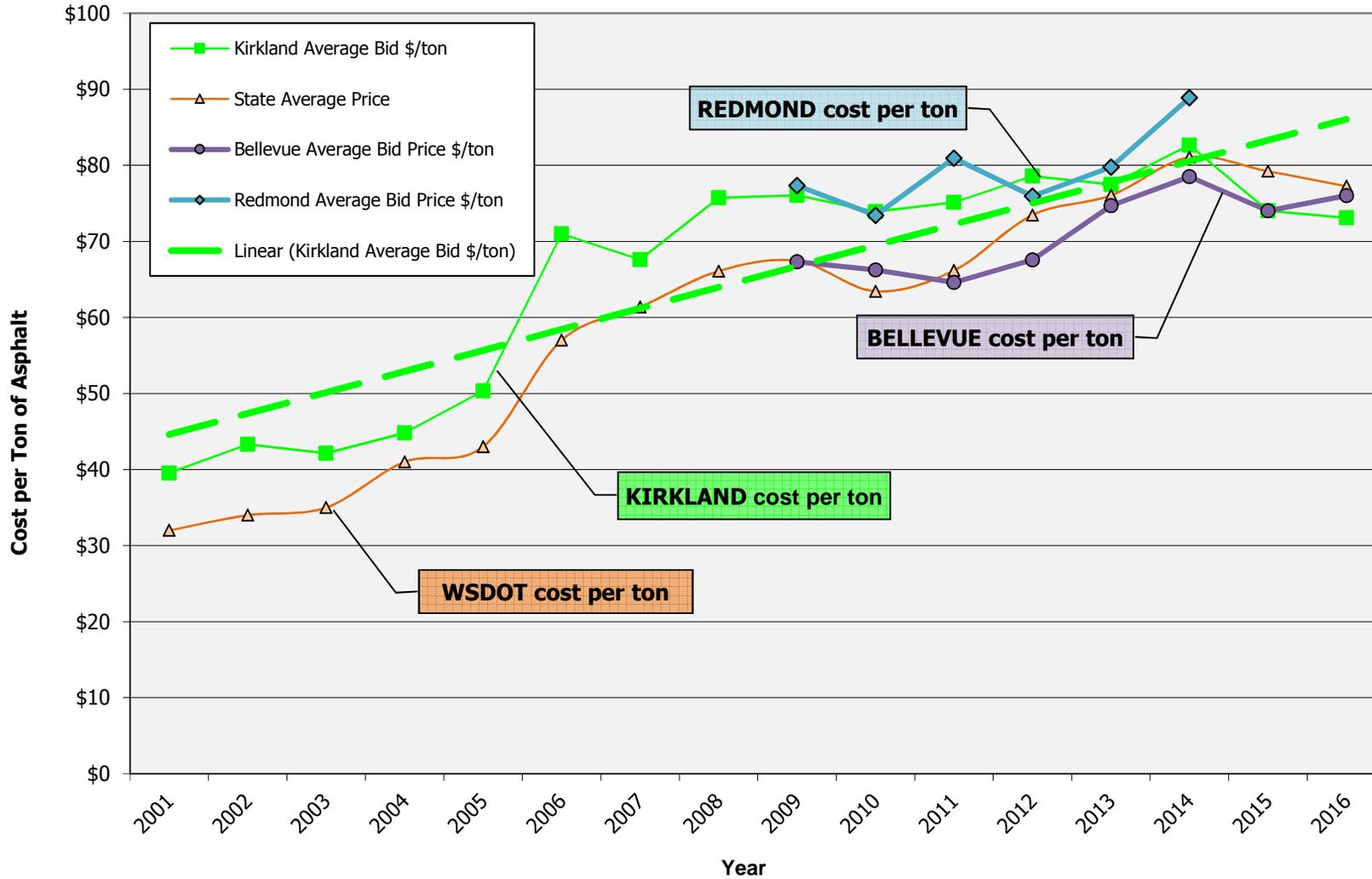
- █ CIP
- █ LEVY
- █ Parks / Open Spaces
- █ Schools
- █ Cross Kirkland Corridor
- █ City Limits



Author: Name In Map Doc Properties
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Kirkland Annual Street Overlay Program Cost Comparison

ATTACHMENT B



Project Budget Report
2016 Street Overlay Project
(ST-1606)

Attachment C

