



CITY OF KIRKLAND

Department of Public Works

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MEMORANDUM

To: Kurt Triplett, City Manager

From: Patrick Herbig, P.E., Project Engineer
David Snider, P.E., Capital Projects Manager
Kathy Brown, Public Works Director

Date: December 17, 2015

Subject: COCHRAN SPRINGS / LAKE WASHINGTON BOULEVARD CROSSING
ENHANCEMENT PROJECT – AWARD

RECOMMENDATION:

It is recommended that City Council take the following actions:

- Award the contract for the construction of the Cochran Springs/Lake Washington Boulevard Crossing Enhancement Project (Project) to KLB Construction, Inc. in the amount of \$1,052,682.00 for Schedule A only.
- Approve the proposed limited duration detour plan.

By taking action on this memo during approval of the consent calendar, City Council is authorizing the award of a construction contract for the Cochran Springs/Lake Washington Boulevard Crossing Enhancement Project and approving a temporary traffic detour to help shorten the project duration.

BACKGROUND DISCUSSION:

The Cochran Springs/Lake Washington Boulevard (LWB) Crossing Enhancement Project will replace a pair of aging concrete pipe culverts with a new concrete box culvert where Cochran Springs Creek crosses beneath LWB (Attachment A). The intended outcome of the Project is to reduce sediment loading at the crossing and to improve fish passage. The Creek experiences high levels of sedimentation deposits during heavy rain events, which in turn causes reduced culvert capacity for the conveyance of water under LWB. In the past, this impeded flow has resulted in creek overflows with localized flooding within the Yarrow Bay Business Park, downstream of the crossing. In addition to flood reduction, by improving fish passage, the new box culvert will open up approximately 375 feet of currently inaccessible breeding and rearing habitat for fish and other wildlife.

The Project consists of replacing two 24-inch diameter concrete pipes with a single 15-foot wide by 7-foot deep concrete box culvert spanning the width of the LWB. The new culvert has been designed to include a permanent in-line sediment trap to allow maintenance crews greater access for the routine removal of sediment resulting in a net reduction in annual maintenance resource needs and costs. The Project also requires the lowering of existing Kirkland Water System 12-inch and 8-inch water mains in order to accommodate

the new box culvert as well as the relocation of City owned active fiber optic cable within existing conduit.

Several Franchise utilities will also be required to relocate their facilities prior to the start of the culvert replacement. Staff has coordinated the improvement design and project schedule with Verizon Business/Comcast joint fiber optic duct bank, Puget Sound Energy, Frontier Communications fiber optic duct bank, and the ZayoGroup, LLC/Level 3/City of Kirkland (City) fiber optic duct bank.

The ZayoGroup, LLC/Level 3/City fiber optic duct bank contains two City owned 4-inch fiber optic conduits and inner ducts. As provided for within their franchise agreement, the City is partnering with ZayoGroup, LLC and Level 3 to relocate the joint duct bank. The joint duct bank is composed of nine 4-inch fiber optic conduits, all encased in controlled density fill (CDF). The entire cost to install 680-feet of new conduit duct bank is estimated at \$568,000, with the City's 2/9 (22.2%) estimated at \$125,000. As required for Public Works contracted activities, the specialty micro-tunneling contractor (hired by ZayoGroup, LLC) to perform the work will pay King County prevailing wages to its workers.

With an engineer's estimate of \$1,200,010 for schedule A and Schedule B, staff advertised for contractor bids on November 3. On November 20, 2015, five (5) bids were received with KLB Construction, Inc. submitting the lowest responsive bid, as shown in the summary below:

Table 1 – Bid Results

Contractor	Schedule A	Schedule B	Total Bid (A & B)
KLB Construction, Inc.	\$1,052,682	\$104,700	\$1,157,382
<i>Engineer's Estimate</i>	<i>\$1,132,180</i>	<i>\$67,850</i>	<i>\$1,200,010</i>
Thomco Construction	\$1,217,840	\$101,968	\$1,319,808
Award Construction	\$1,213,298	\$124,980	\$1,338,278
R.L. Alia Company	\$1,457,243	\$ 84,810	\$1,542,053
A1 Landscaping & Construction	\$1,646,817	\$113,340	\$1,760,157

The Schedule B element of the bid documents is for relocating a segment of City owned conduit and fiber optic cable within the culvert installation limits. As designed, that would involve the added splicing a 60 foot fiber optic segment within an overall 680 feet of conduit between existing junction boxes. Although the table above indicates that KLB Construction could relocate the City's portion of fiber for \$104,700, a less invasive and lower risk approach would be to replace the entire 680 feet of duct bank and fiber optic cable run simultaneous with the other seven conduits within the current duct bank as part of the ZayoGroup/Level 3 fiber optic work. While the City's share of the entire ZayoGroup/Level 3 work is estimated to be \$125,000, staff is recommending an award of Schedule A only in order to preserve the Schedule B amount (\$104,700) for use towards the ZayoGroup/Level 3 project costs. The total cost of the ZayoGroup/Level 3 work (9 conduit duct bank with fiber) is estimated to be \$565,000, of which the City's share (2 conduit plus fiber) is the \$125,000 amount.

Funding

The overall Project funding is a combination of Surface Water funds in the amount of \$1,970,000 for the culvert crossing, plus Water System funding of \$260,000.00 for the replacement of two water mains running underneath the existing twin culverts, for a total

of Project budget of \$2,230,000. Given the results of the bid opening and the other known and anticipated costs, the overall budget currently appears adequate to perform all of the work. This includes the City's share of cost for the ZayoGroup, LLC/Level 3/City fiber optics duct bank and necessary splicing of the new fiber, as well as maintaining a reasonable amount of contingency (10%) for this type of work. (Attachment B).

Utility Construction

Lake Washington Boulevard will remain open with multiple lane shifts between January through June as the various communications and power companies (i.e., Verizon Business/Comcast, Puget Sound Energy and Frontier Communications) work on their respective system relocations. All Utility work will result in typical traffic control (traffic cones/drums and traffic flaggers) on Lake Washington Boulevard at certain intervals during the daytime and likely some nights. If night work is requested, staff will insure that all required noise variance paperwork is on file.

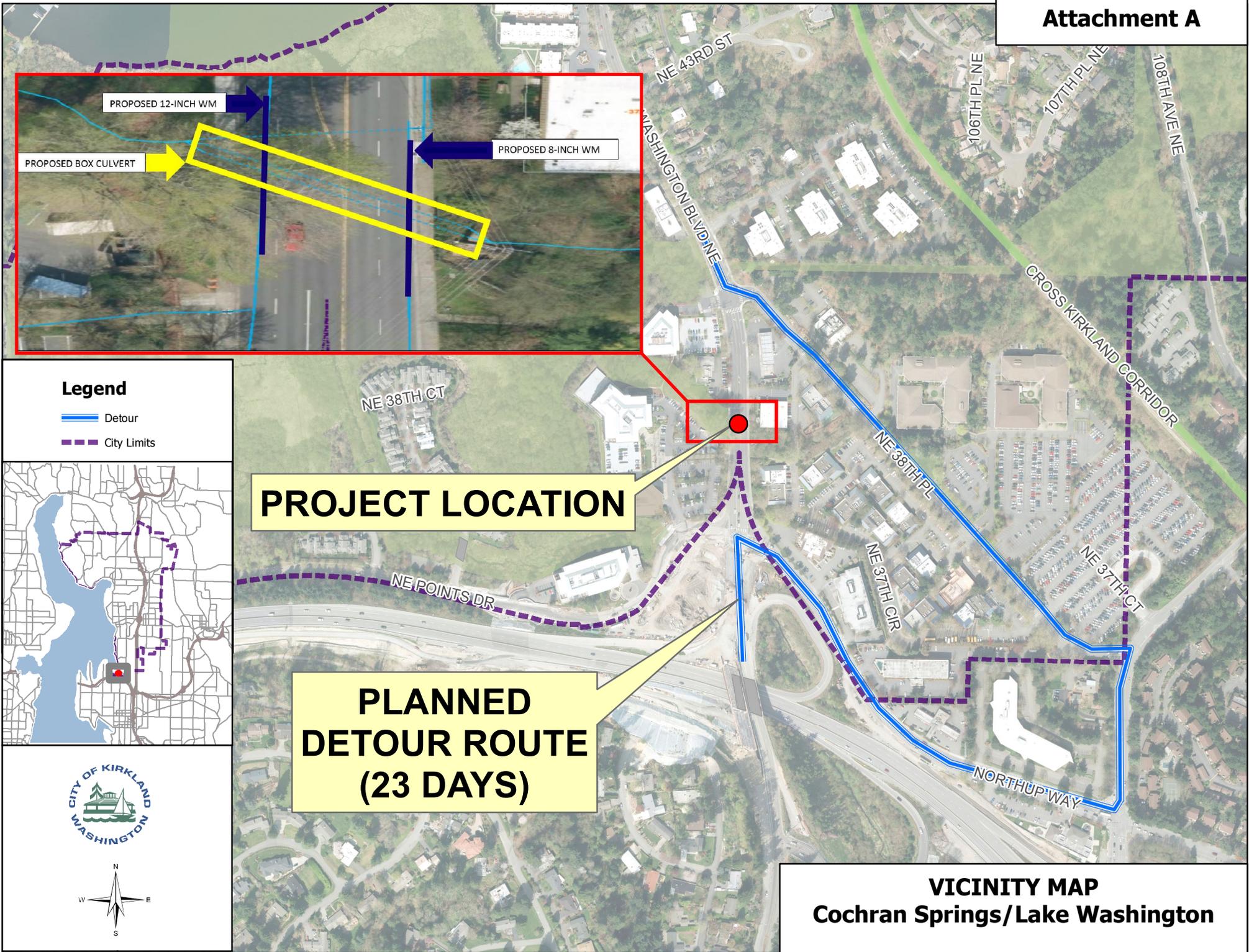
Proposed Traffic Detour

In compliance with the State Department of Fish and Wildlife, the Project falls under a mid-summer "fish-window" for work within the waters of Cochran Springs. Starting as early as July 5, a 23-calendar day detour around the work zone is being proposed for Lake Washington Boulevard. The contractor will be allowed to begin work as early as July 5, however, all work in the water must be complete by September 2, 2016. To the greatest extent feasible, the proposed detour will be coordinated to avoid any special summer events. The proposed detour route for vehicles and transit is shown on the Vicinity Map (Attachment A); during the 23-calendar day detour, the contractor is required to maintain safe travel for bicycles and pedestrians throughout the work areas at all times during the entire construction phase.

Schedule

With a City Council award of the construction contract at the January 5, 2016 meeting, the construction of the two replacement watermain segments and the new box culvert will begin in late winter/early spring, 2016. In advance of the start of construction, staff will begin an intensified public outreach process by notifying adjacent property owners with a direct mailing describing the upcoming work. Project information, including a regularly updated construction schedule, will also be posted at the project location on the City's Capital Improvement Project web site.

Attachments A – Vicinity Map
Attachment B – Project Budget Report



**LAKE WASHINGTON BOULEVARD/COCHRAN SPRINGS CROSSING
ENHANCEMENT (CSD - 0048 & CWA - 0162)
PROJECT BUDGET REPORT**

Attachment B

