



**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:** October 18, 2016

**Subject:** COCHRAN SPRINGS / LAKE WASHINGTON BOULEVARD CROSSING  
ENHANCEMENT PROJECT – PROJECT & BUDGET UPDATE

**RECOMMENDATION:**

It is recommended that the City Council receive a briefing and approve a project budget adjustment on the Cochran Springs/Lake Washington Boulevard Crossing Enhancement Project (hereafter referred to as the Cochran Springs Project). Specifically, staff are requesting the following from the City Council:

- That Council receive a project update on the project construction phase, including the many successes achieved, but also certain physical and budgetary challenges encountered to-date; and,
- That Council approve a project budget adjustment of \$158,000 using Surface Water Capital Contingency funds.

By taking action during approval of the consent calendar, City Council is authorizing a budget increase in the Cochran Springs Project, primarily to address cash flow issues due to pending reimbursements from other entities.

**BACKGROUND DISCUSSION:**

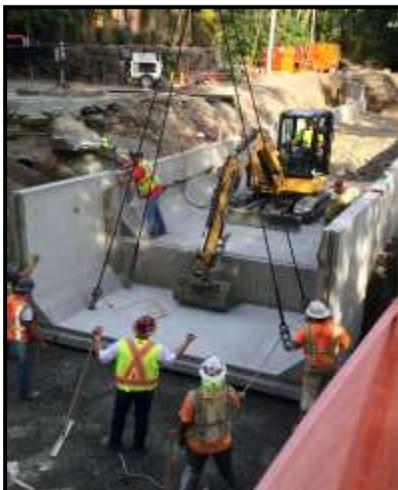
The Cochran Springs Project replaced a pair of aging concrete pipes with a new concrete box culvert where Cochran Springs Creek crosses beneath the roadway (Attachment A). The new box culvert includes a permanent in-line sediment trap to allow maintenance crews greater access for routine removal of sediment. The new sediment trap is designed to produce a net reduction in annual maintenance resource needs and costs, while preserving the quality of fish habitat in the stream. The Project also replaced portions of two Kirkland water mains, one 12-inch and one 8-inch, as well as a segment of 16-inch concrete sanitary sewer main with new ductile iron pipe and access structure, all needed to accommodate the installation of the new fish-passable box culvert. In addition to City utilities, the Project also included coordination with five franchise communications utilities, Puget Sound Energy, and a consortium owned fiber. The utilities and consortium fiber optic line, of which Kirkland is a consortium partner, required relocation prior to the installation of the new culvert. A full width asphalt overlay was also completed as part of the roadway restoration for the Project.

On January 5, 2016, City Council awarded a construction contract to KBL Construction in the amount of \$1,052,682 for the now substantially complete Project. The required establishment period for restoration plantings will run for a one-year period ending October,

2017. During this time, staff will monitor the performance of the culvert, monitor and document sediments being captured in the new sediment trap, and review stream and stream bank conditions upstream of the culvert for improved habitat.

**Project Accomplishments:**

- All in-water work was completed prior to September 30 “fish-window,” ensuring compliance with all permit requirements: Kirkland Critical Areas, Army Corps of Engineers, Washington State Department of Ecology, and Washington State Fish and Wildlife.
- The contractor completed the culvert replacement work, along with associated roadway restoration, in four days -- 19 days ahead of the planned 23-day timeline, thereby shortening the detour time around the work zone. The detour route for vehicles, transit, pedestrians, and cyclists is shown on the Vicinity Map (Attachment A).
- The construction work and detour generated zero recorded complaints from residents, business owners and motorists with an outreach plan that included local businesses, residents, commuters, and nearby schools for both Kirkland and Bellevue.
- All the Franchise Utilities (Frontier, Puget Sound Energy, Verizon Business, Comcast, Zayo Group, and Level 3 Communications) were relocated by August 1, allowing the Contractor ample time to comply with all regulatory permits.
- The Project is now Substantially Complete with Physical Completion expected in late October 2016. All work, including that for the franchise utilities, the water main relocations, the sanitary sewer main relocation, the culvert and sediment trap installation, stream bed and bank enhancements, and paving, was completed within the contract time requirements.



*Concrete Culverts  
with new sediment trap*



*Stream bed and  
bank restoration*



*Pavement/lane striping  
complete*

## Private Utility Work

The private utility work was completed between January and August of this year as the various communications companies and PSE relocated their respective underground systems. Through the use of coordinated traffic control plans, Lake Washington Boulevard remained open to motorists, pedestrians, and cyclists for the private utility work.

Three of the six utilities, Zayo Group fiber optic, Level 3 fiber optic, and Kirkland's consortium fiber optic are in a joint trench and are encased within a soft concrete (controlled density fill (CDF)) for protection and reliability. As provided for within their franchise agreement, the City partnered with Zayo Group and Level 3 to relocate the joint consortium trench. The initial estimate to relocate 680-feet of this joint trench was \$568,000. The final cost for Zayo Group to lead the work was \$663,000. The cost increase was due differing field conditions requiring modification of Zayo's original design. The City's proportionate share is shown in Table 1.

## Funding and Expenses

The overall Project funding is a combination of Surface Water funds, currently in the amount of \$1,970,000 for the culvert crossing, plus Water/Sewer Utility funding of \$260,000 for the replacement of two water mains running within the work zone, for a total of Project budget of \$2,230,000 (Attachment B).

The project is now substantially complete and the current projection for all expenses are detailed on Table 1. Table 1 also includes pending expenses as well as anticipated reimbursables as provided for within franchise agreements or other arrangements for recovery. Current encumbrances total \$2,319,000 with pending expenses totaling \$69,000. The sum of all project expenses is \$2,388,000 (\$2,319,000 + \$69,000). There are reimbursable expenses for the project that are currently estimated to be \$112,000. The total cost of the project, including reimbursables, is projected to be \$2,276,000.

**Table 1: Project Expenses and anticipated Reimbursements**

Element	Encumbrances	Pending	Savings / Reimbursable	Total
Design and Permitting	\$333,000	\$20,000 <sup>1</sup>		\$353,000
Construction Inspection	\$340,000		(\$27,000) <sup>4</sup>	\$313,000
Staff Admin/Mgmt	\$281,000	\$2,000		\$283,000
ROW Easements	\$33,000	\$3,000		\$36,000
Construction	\$1,207,000	\$15,000 <sup>2</sup>	(\$77,000) <sup>5</sup>	\$1,133,000
Fiber Optic Work	\$125,000	\$29,000 <sup>3</sup>	(\$8,000) <sup>6</sup>	\$146,000
Sub totals	\$2,319,000	\$69,000	(\$112,000)	\$2,276,000
Encumbrance + Pend		\$2,388,000		
Current Funding		\$2,230,000		\$2,230,000
Difference	w/out reimburse	(\$158,000) <sup>7</sup>	w/ reimburse	(\$46,000) <sup>8</sup>

Notes:

- 1) consultant amendment request for additional inspection services being negotiated
- 2) anticipated PSE expense to hold overhead power poles during construction
- 3) additional Zayo Group expenses due to differing field conditions being negotiated
- 4) City inspection services for private utility work to be reimbursed
- 5) seeking consultant reimbursement for necessary field design revisions, also seeking private utility reimbursement for requested design revisions
- 6) reimbursable expense to repair City/consortium fiber damaged private utility work
- 7) apparent interim shortfall prior to receipt of reimbursables, see recommendation section
- 8) apparent final shortfall with receipt of reimbursables, see recommendation section

There were eight change orders issued for the project totaling \$135,300. Three change orders were for work requested by private utilities and for differing site conditions related to the private utilities. The City will be reimbursed by the utilities for those change orders. Two change orders are resulting from design changes issued during construction and staff is negotiating with the design consultant for reasonable compensation. The remaining three change orders are for City water and sanitary sewer utility changes necessary once the systems were exposed and improvements were deemed necessary for improved maintenance and operations, as well as to better facilitate future system upgrades.

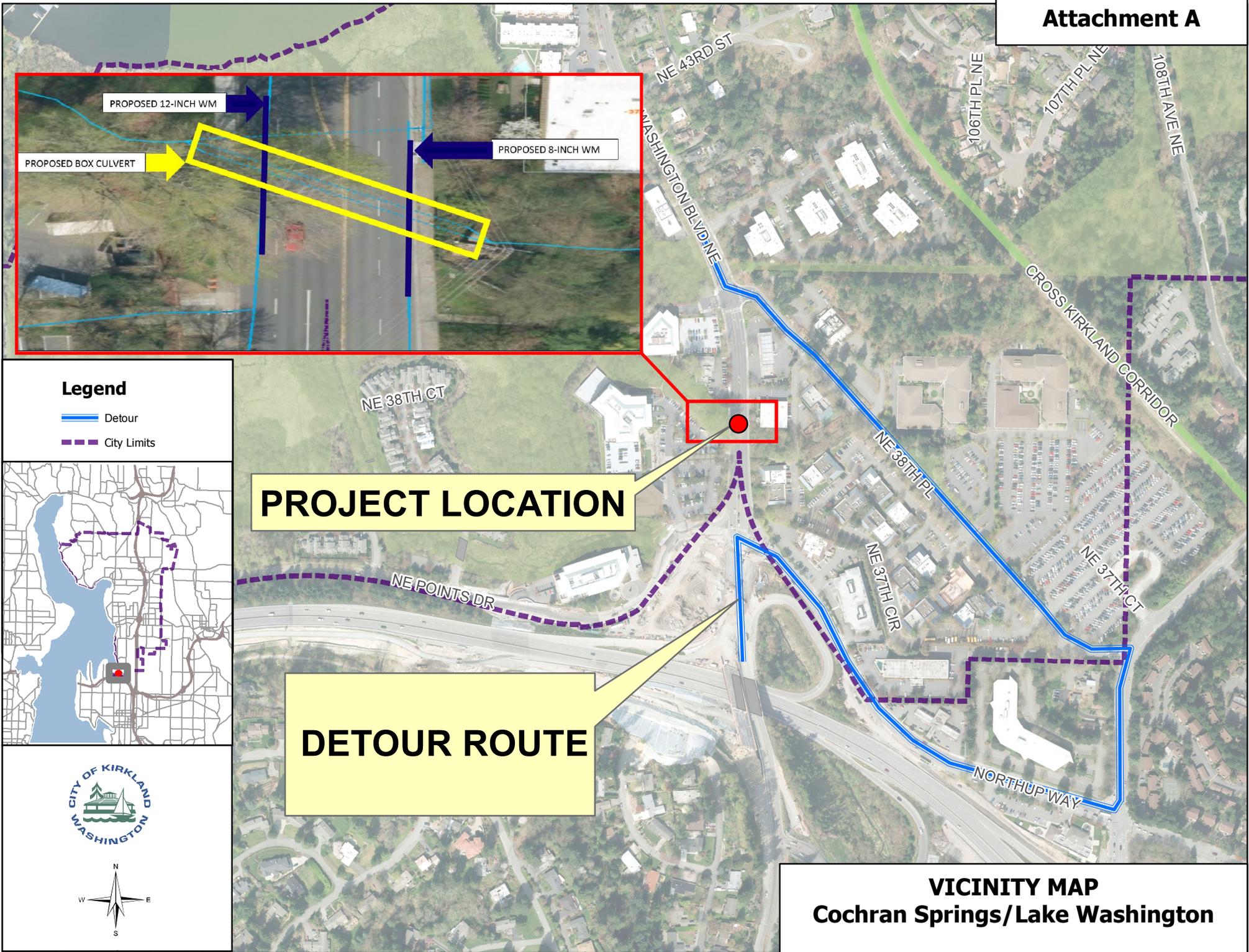
### **Schedule**

It is anticipated that the Contractor will complete all surface restoration and landscaping by late-October, 2016, with all plant establishment work efforts being finished in October, 2017. With the completion of all 2016 activities, staff will engage the various franchise utilities on applicable reimbursements for surface restoration and other work performed by the City's contractor, as noted above in Table 1. In addition, staff will be negotiating the final payment to the prime consultant with full consideration given towards all Project costs directly attributed to any and all design errors and/or omissions.

### **Recommendation**

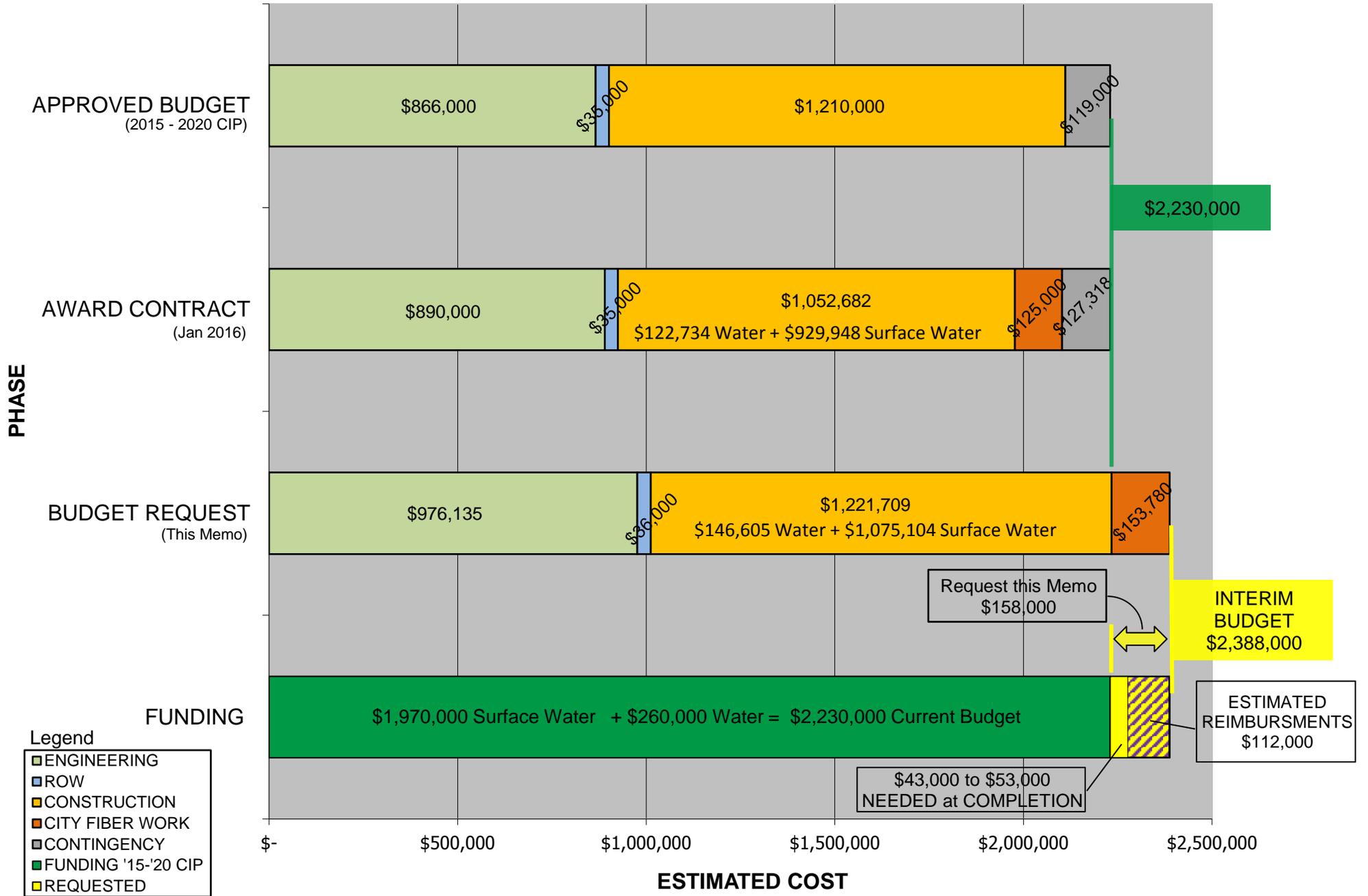
It is staff's recommendation that City Council approve an overall interim adjustment of the Project budget with a temporary increase of \$158,000 using Surface Water Capital Contingency funds (Attachment C). As per the City's contracts and agreements with the various utilities and Project participants, staff will be calculating final reimbursements and negotiated settlements, currently estimated to be in the range of \$105,000 to \$115,000 in credits. Once all debits and credits are known, staff will return to City Council with a full accounting of the final Project costs and City participation. As outlined above, it is currently estimated that all but \$43,000 to \$53,000 of the Surface Water Capital Contingency will be returned to the fund, resulting in a 2% to 2.5% increase on this extremely complex, yet very successful surface water improvement for the environment, habitat, and operations and maintenance.

Attachment A – Vicinity Map  
Attachment B – Project Budget Report  
Attachment C – Fiscal Note



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

**Attachment B**



**FISCAL NOTE**

Source of Request							
Kathy Brown, Public Works Director							
Description of Request							
Additional funding of \$158,000 for Cochran Springs/Lake Washington Blvd Surface Water Enhancement project CSD 0048 from the Surface Water Contingency reserve as described in the attached memo.							
Legality/City Policy Basis							
Fiscal Impact							
<b>One-time use of \$158,000 from Surface Water Contingency.</b> This reserve is able to fully fund this request.							
Recommended Funding Source(s)							
<i>Reserve</i>	Description	2016 Est End Balance	Prior Auth. 2015-16 Uses	Prior Auth. 2015-16 Additions	Amount This Request	Revised 2016 End Balance	2015 Target
	Surface Water Contingency	391,830	0	0	158,000	233,830	N/A
<i>Revenue/Exp Savings</i>							
<i>Other Source</i>							
Other Information							
Surface Water Contingency is set as 10 percent of the biennial CIP to be used for unexpected costs for existing projects. It is reset for each biennium. The Surface Water Construction reserve has a current estimated 2016 year-end balance of \$6,837,875 and will be used to bring the Contingency reserve to the appropriate balance in the next biennium and also is available for any other unexpected changes to projects.							
Prepared By	Neil Kruse, Senior Financial Analyst				Date	October 20, 2016	