



King County

Department of Natural Resources and Parks
Wastewater Treatment Division

COAL CREEK SEWER UPGRADE



COAL CREEK SEWER UPGRADE

Project Overview and
Construction
June 17, 2020

How to use Zoom

- Captioning
- ASL interpreter
- Asking questions
- Tech help: 206.922.6271 or Q&A chat function

Closed captioning

- Select the **Closed Caption** icon at the bottom of your screen



Chat



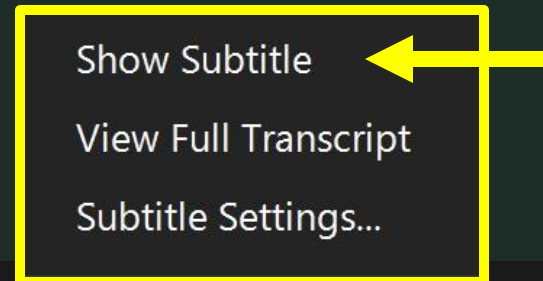
Q&A



Closed Caption

Closed captioning

- Select the **Closed Caption** icon at the bottom of your screen
- Select **Show Subtitle** to activate captions



Chat



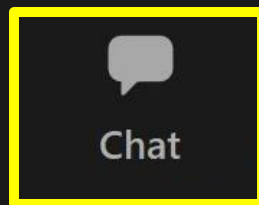
Q&A



Closed Caption

Closed captioning

- **For translated live caption, use the link in the chat box**
- A separate tab will open, and you can select your language of choice



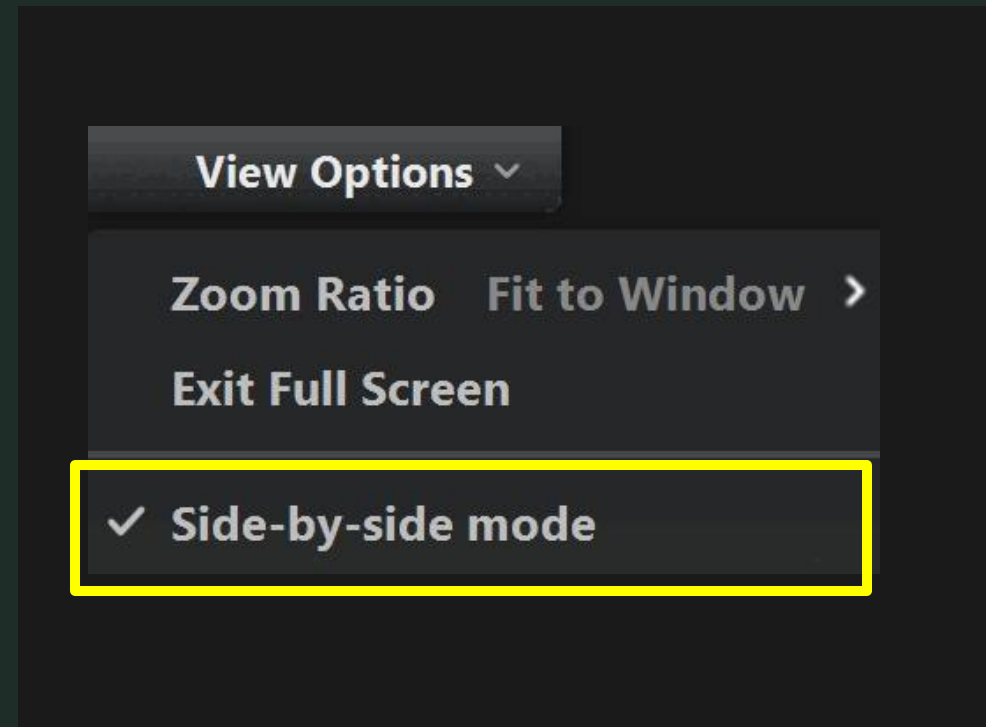
Q&A



Closed Caption

ASL interpretation

- Select “View Options”
at the top of your
screen





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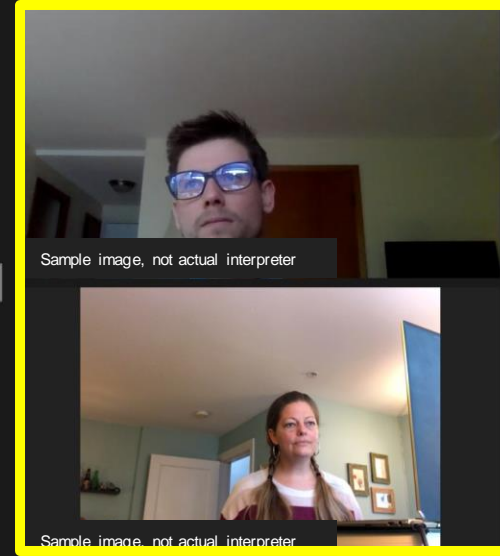


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ASL
interpreters
will be here





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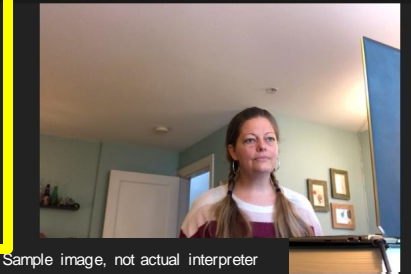
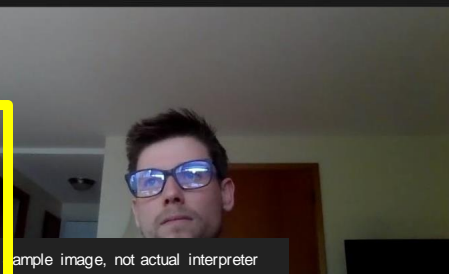
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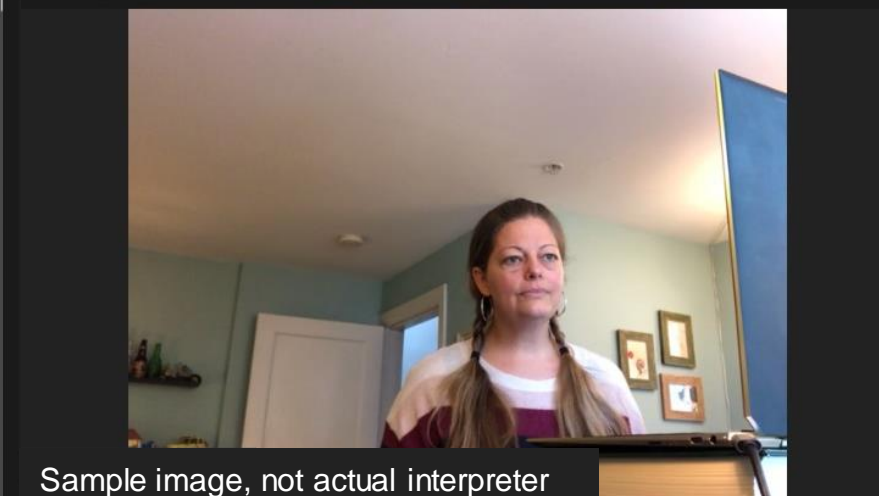
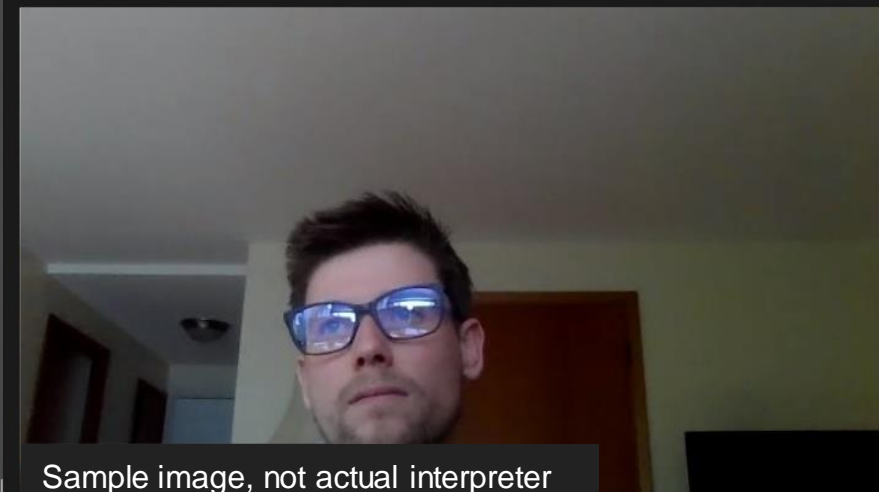
COAL CREEK SEWER UPGRADE

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Make ASL
windows
bigger



ASL interpreters
will be here



Question & answer

- Attendees will remain in listen mode
- Enter questions in the Q&A chat
- Questions answered:
 - Live as time allows
 - Meeting summary online



Chat



Q&A



Closed Caption

Today's Presenters



Elizabeth (Korb) Matson
Project Manager, King County



Ron Bard
Project Manager, Brown & Caldwell



Monica Van der Vieren
Community Services, King County



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COAL CREEK SEWER UPGRADE

Agency and project overview

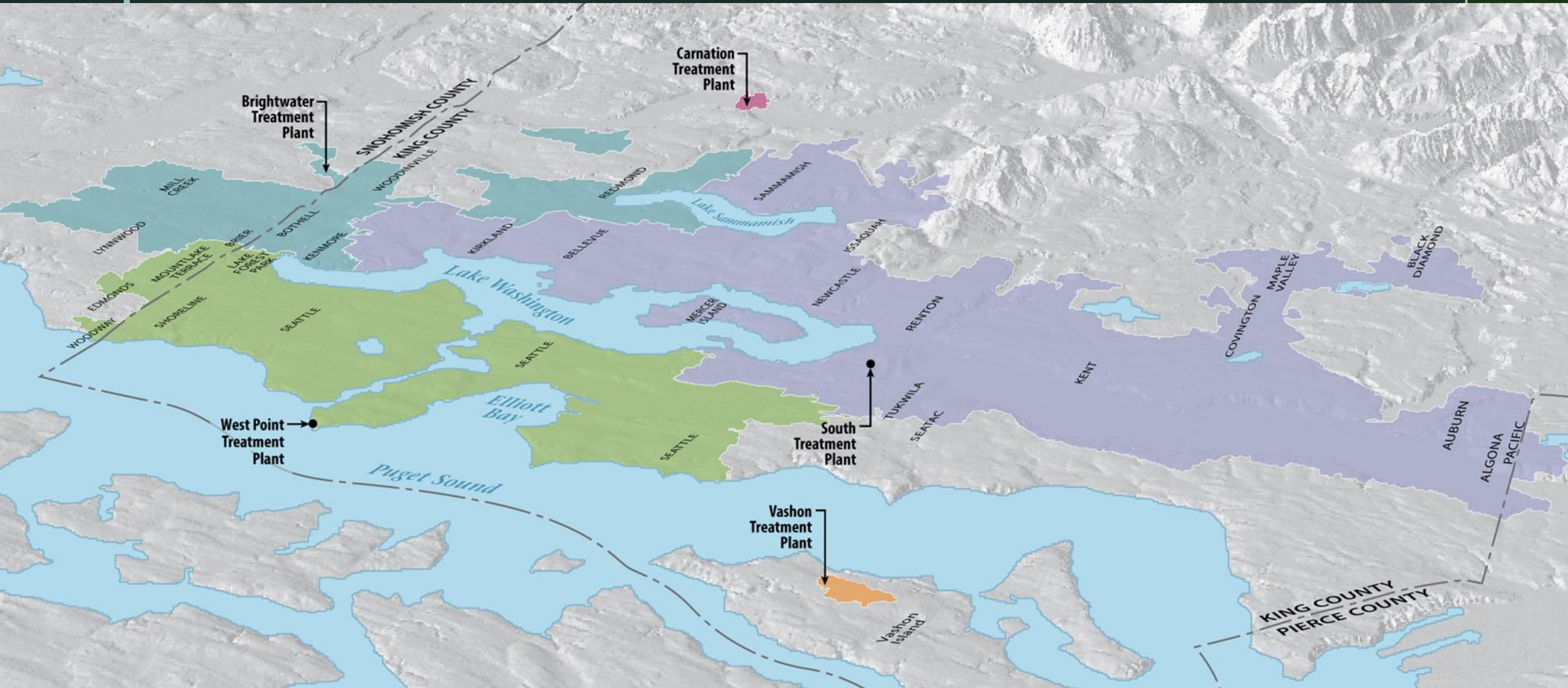
Elizabeth Matson, Project Manager, King County

Helping the community engage and participate

Webinar series

- Construction, trailhead restoration, bank stabilization
June 17, 2020 6-7:30 pm
- Work in the Coal Creek Natural Area
June 23, 2020 6-7:30 pm

King County WTD serves our region





X 3,600,000 =
the amount of wastewater
King County treats every day!

**King County's wastewater system cleans about
3.6 million bathtubs of dirty water every day.**

Where your wastewater goes

- The water from your drains travels through your side sewer
- The City of Bellevue collects your wastewater
- King County collects Bellevue's wastewater for treatment at South Plant in Renton





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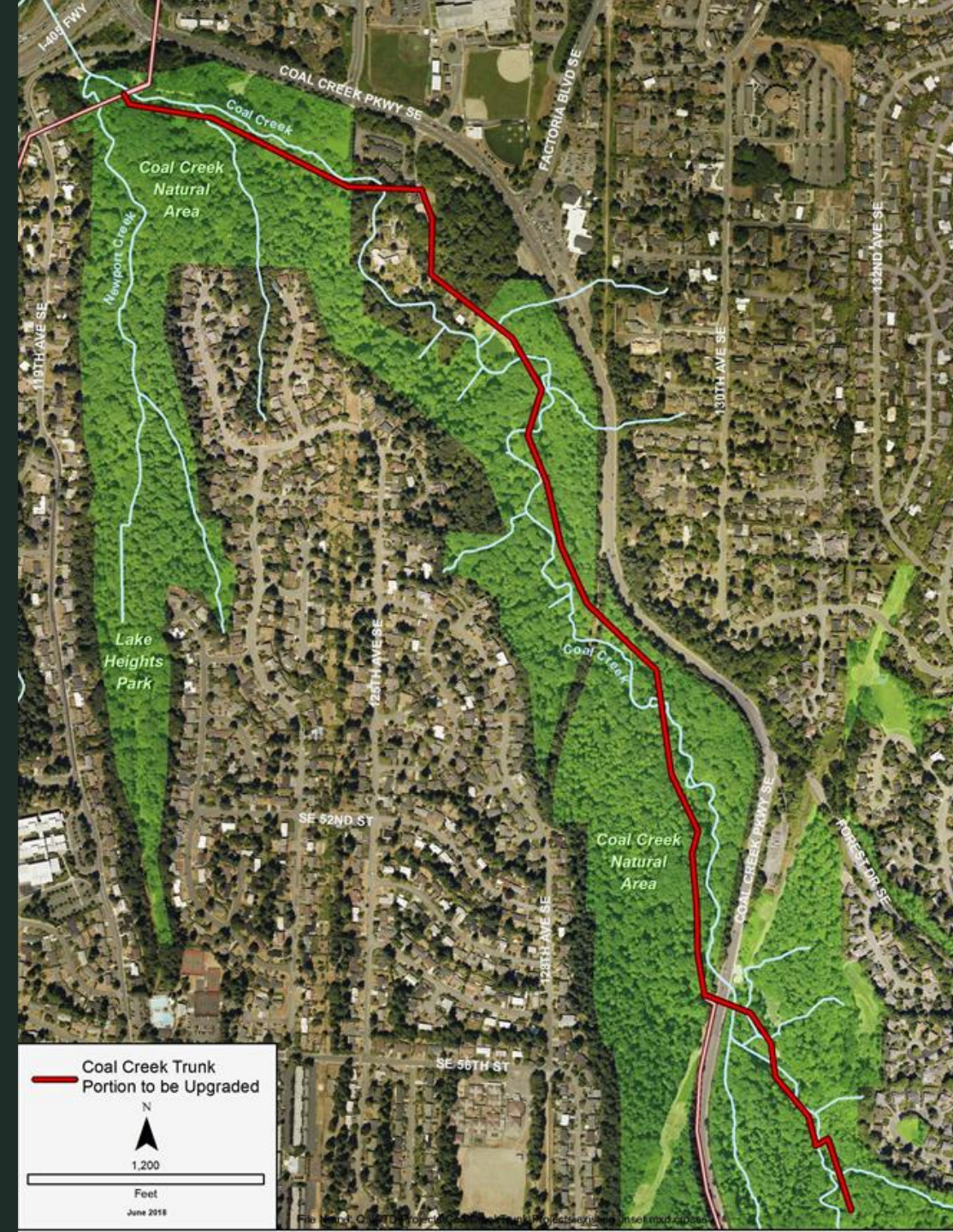
Wastewater Treatment Division

COAL CREEK SEWER UPGRADE

Why we need this project

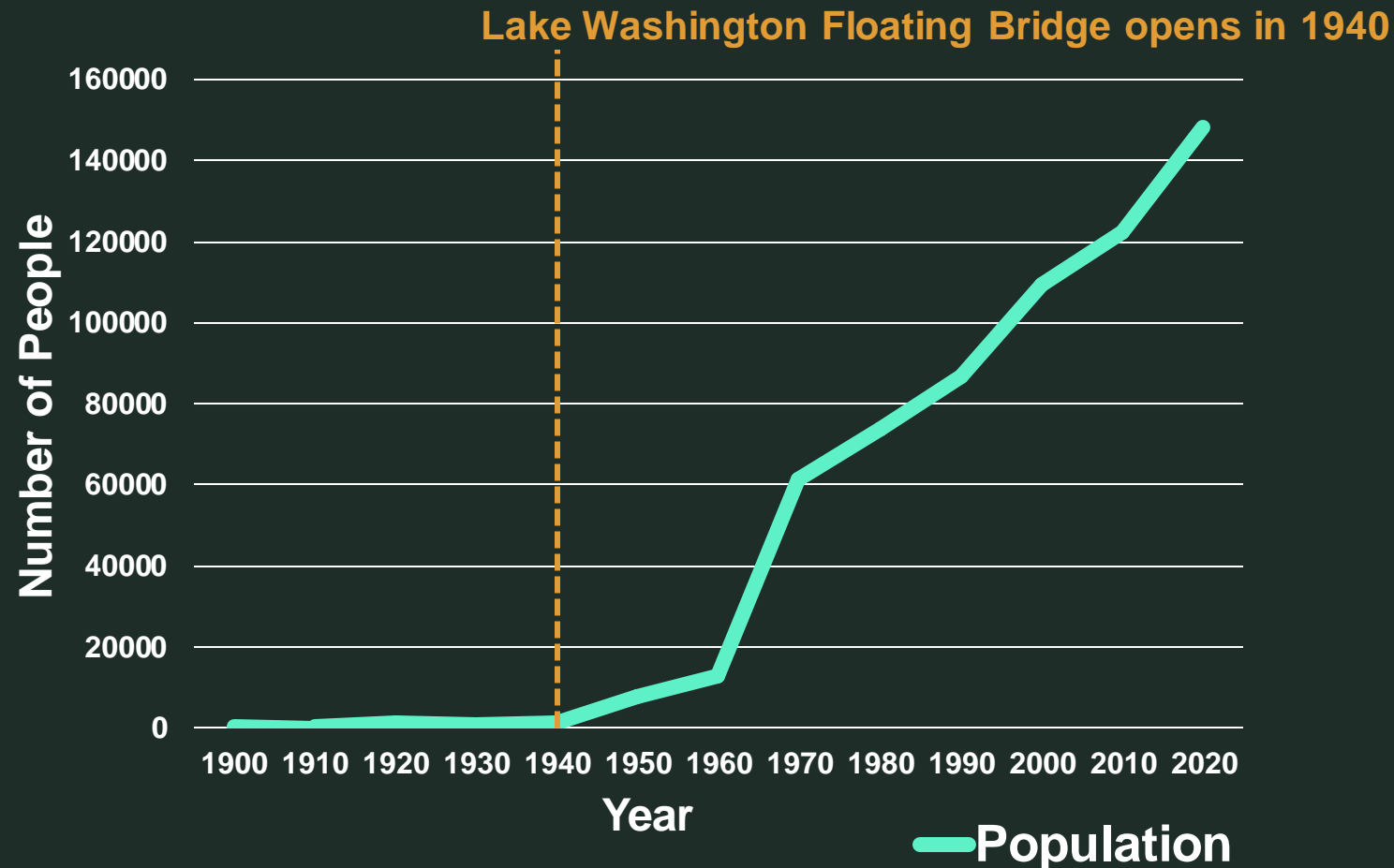
Coal Creek Sewer

- Built in the 1960s-1970s to serve Newcastle and part of Bellevue
- This project replaces the north segment of pipe
- This section follows Coal Creek, in the Coal Creek Natural Area



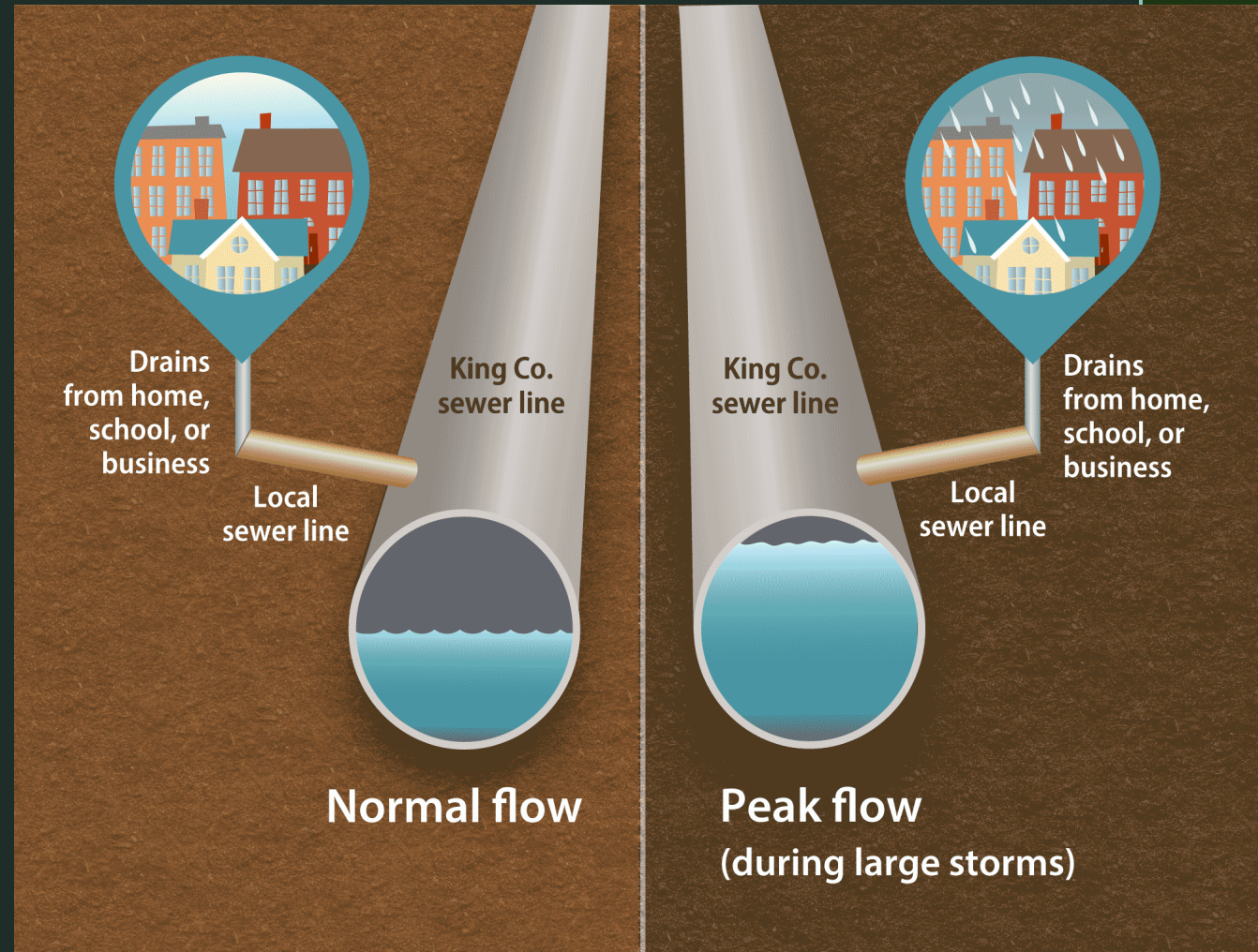
King County needs to provide capacity for a growing area

Population growth in the City of Bellevue



Leaky private sewers also take up some pipe capacity

Maintaining your private side sewer helps reduce this problem!



Opportunity for a better pipe location

This project allows us to move much of the active pipe away from Coal Creek, where it is at risk from floods



2007 (above)
2015 (left)

Current example: maintenance hole protection project



Flooding in December 2019 eroded the bank around a maintenance hole near the Upper West Trailhead.

Temporary bank repair this summer

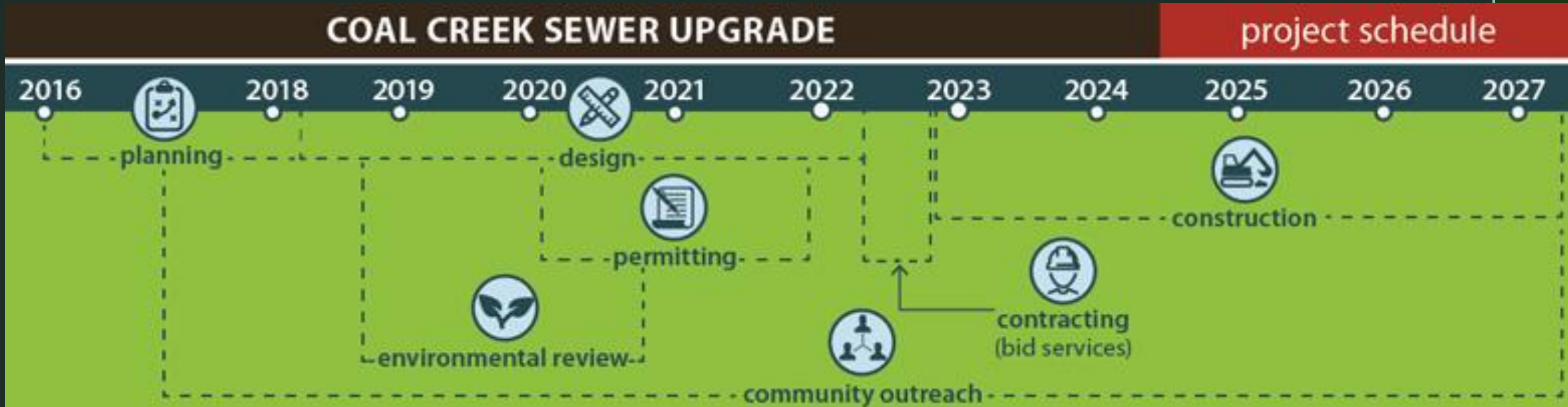
Up to 2 weeks of parking lot and trail closure in the work area, with potential to open on weekends.

Environmental review underway, public comment period June 11 – 29.

Visit the web for more information!



Project Schedule**



**** Project schedule may change.**



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Building the Coal Creek Sewer Upgrade Project

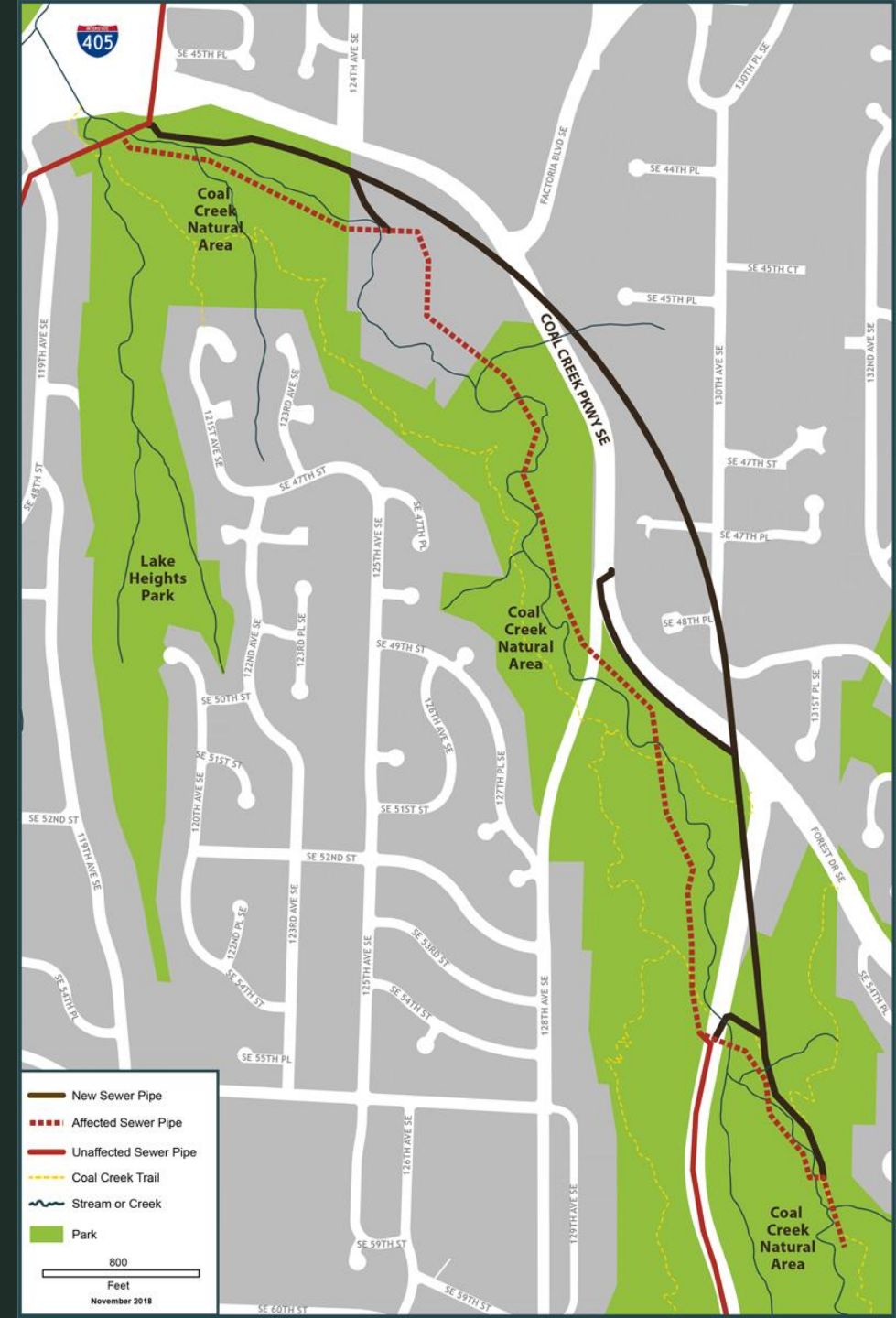
Ron Bard, Project Manager, Brown and Caldwell

Designing and building the project

- What we are building
- How we are building it
- Construction work areas and impacts

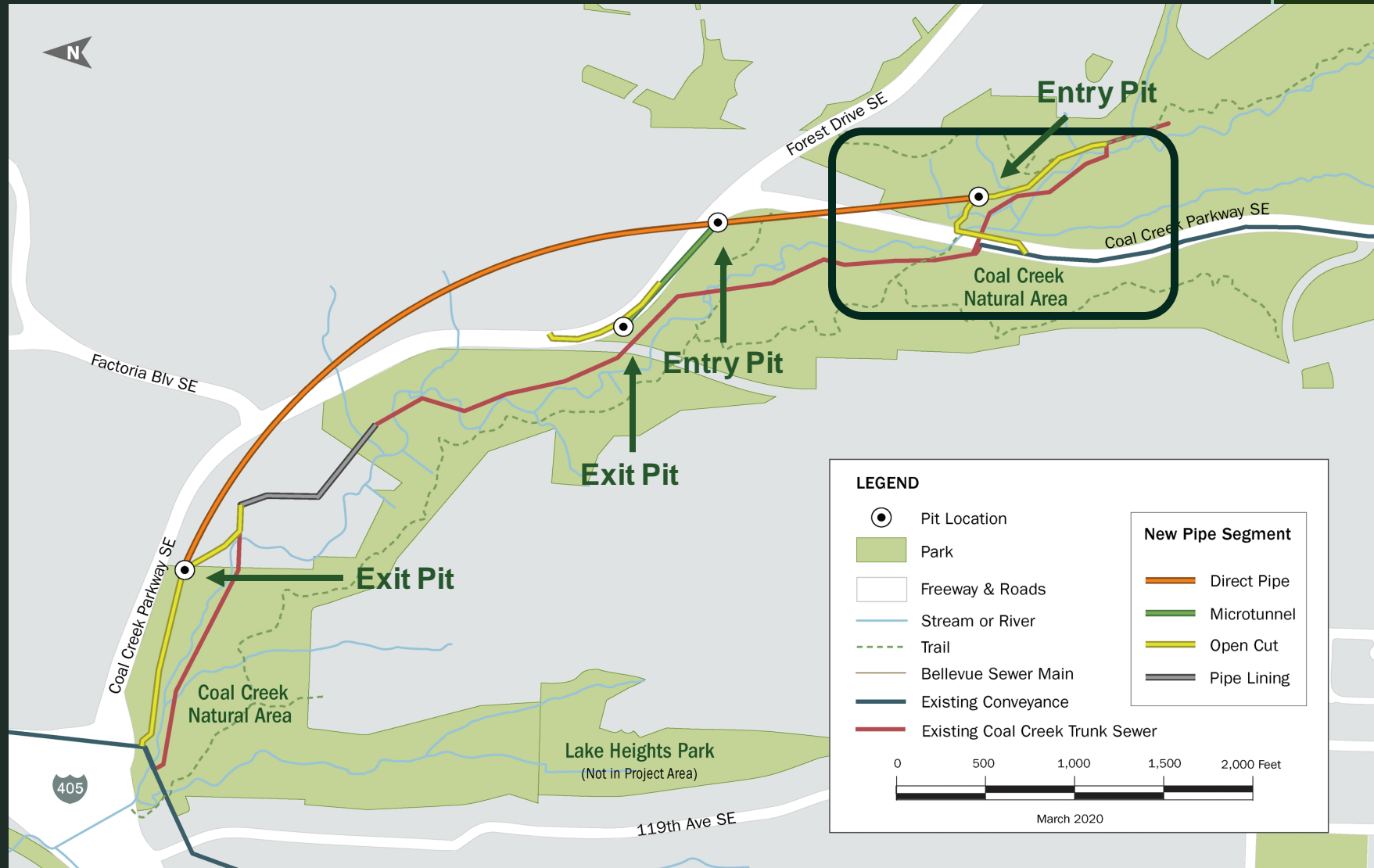
What we are building

- 8,000 feet of new pipe to replace the north Coal Creek Trunk Sewer
- 2,800 feet of pipe to connect the local system to the new pipe

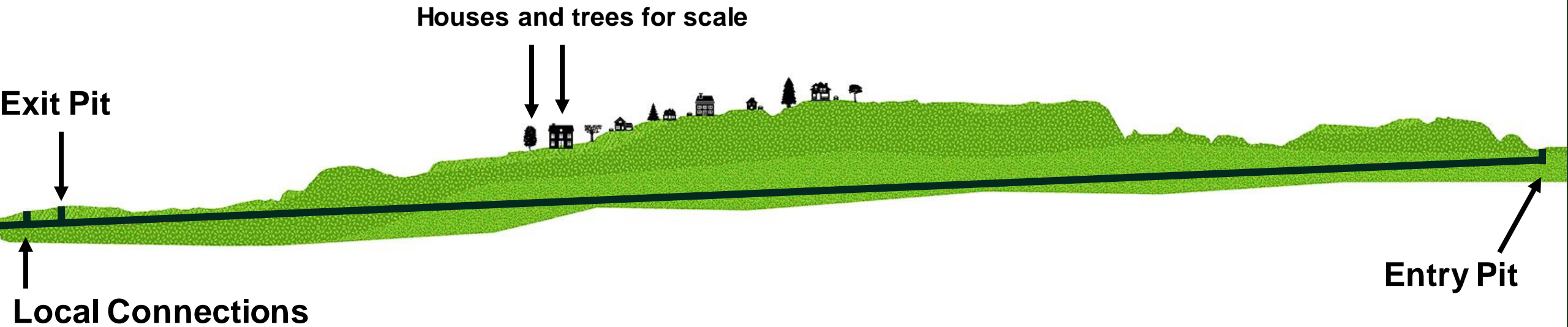


South work area

- Entry point for tunneling
- Pipe connection on trail
- Pipe connection in Coal Creek Parkway



Underground (trenchless) construction



Trenchless construction installs pipe underground with entry and exit points for a remote tunneling machine

Trenchless construction sequence

- Build entry and exit pits
- Launch a tunnel machine from the entry pit



Tunneling overview

- A machine removes dirt and installs steel pipe segments as it tunnels forward
- Excavated materials are hauled off-site per permit regulations and drill fluid is reused

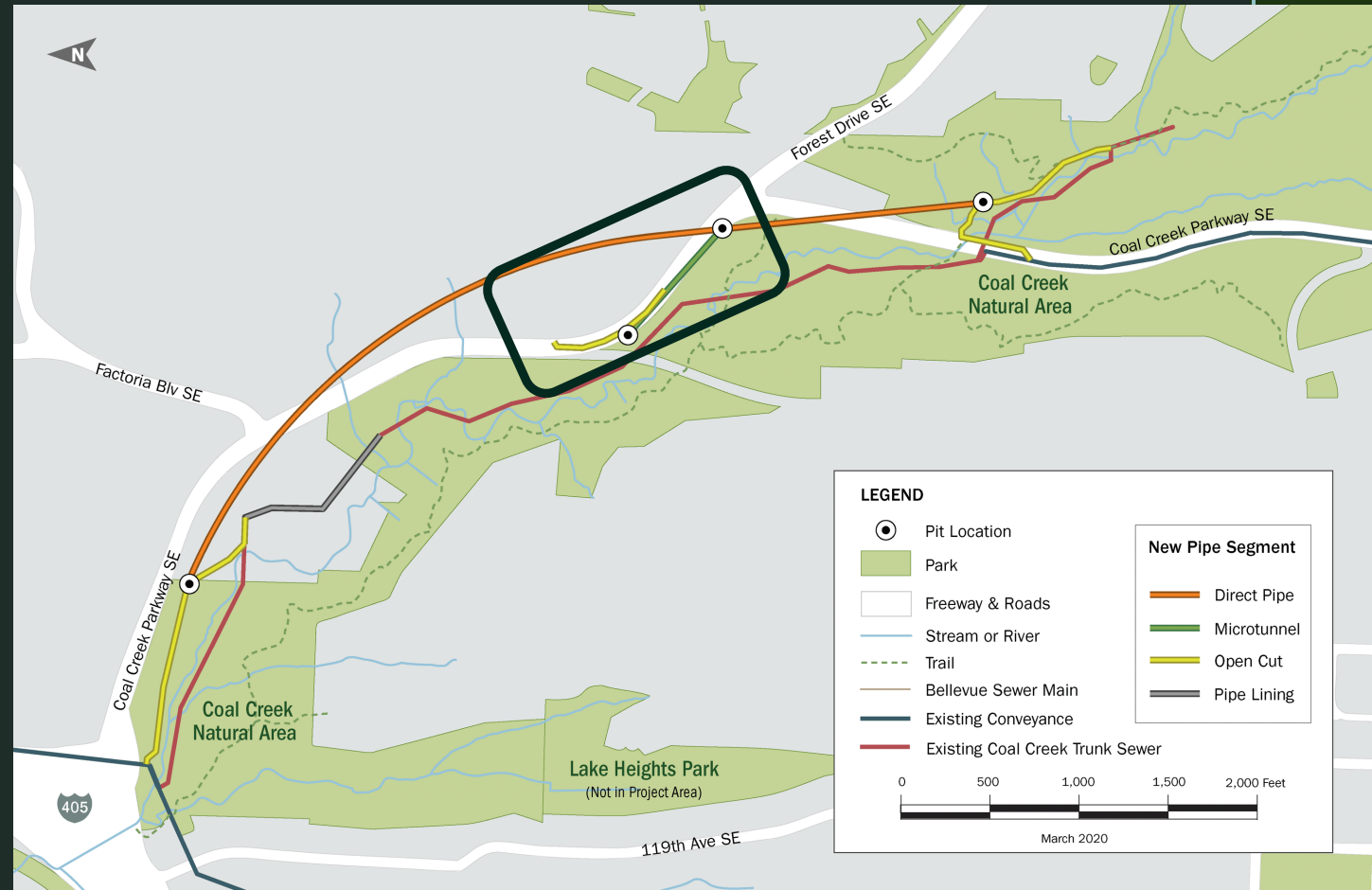


- After the machine is finished, it is removed at the exit pit
- A heavy plastic pipe is installed inside the steel casing that supports the tunnel



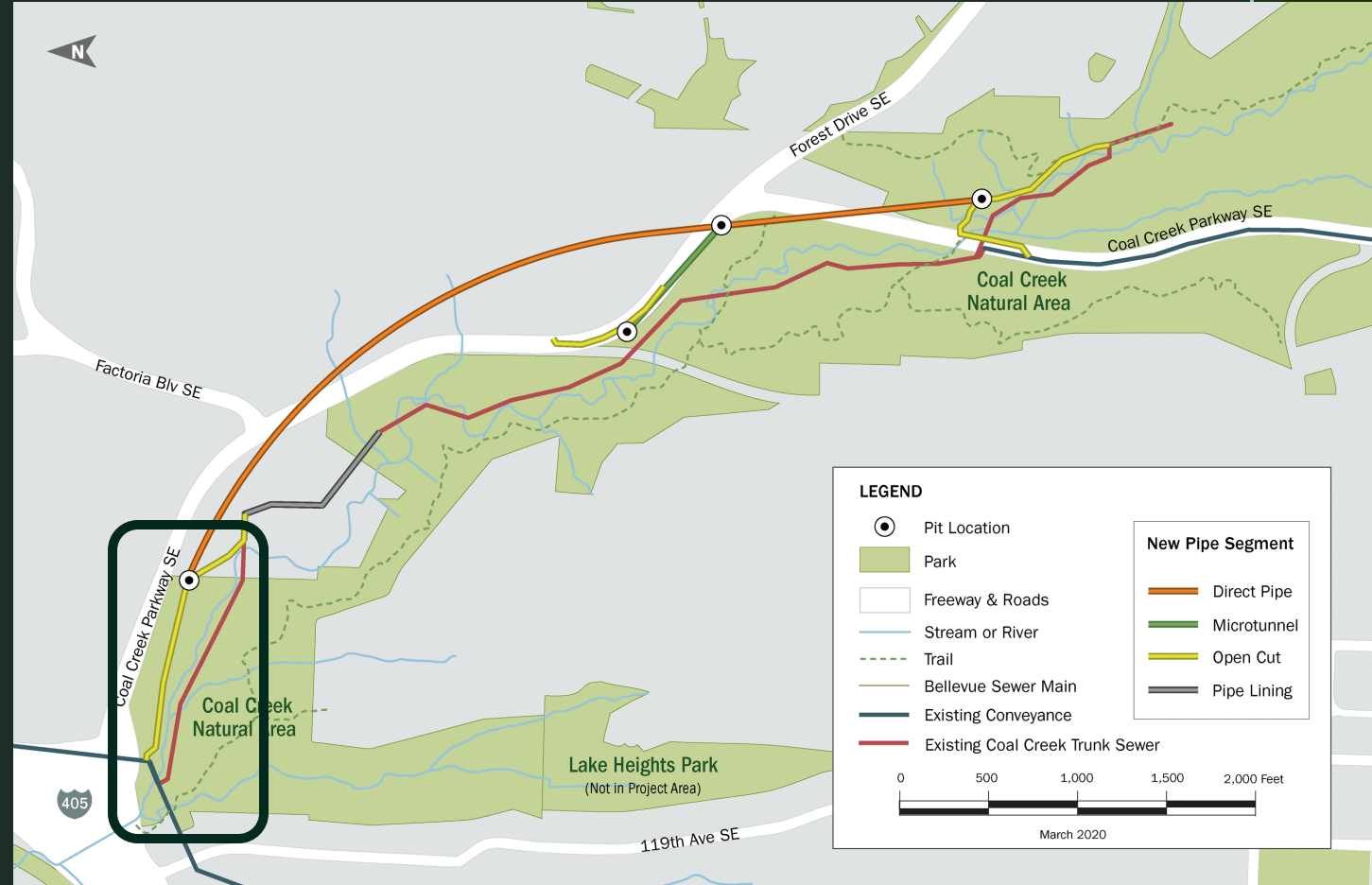
Central: City of Bellevue connections

- Pipe installed underground by microtunneling
- Microtunneling is another trenchless method



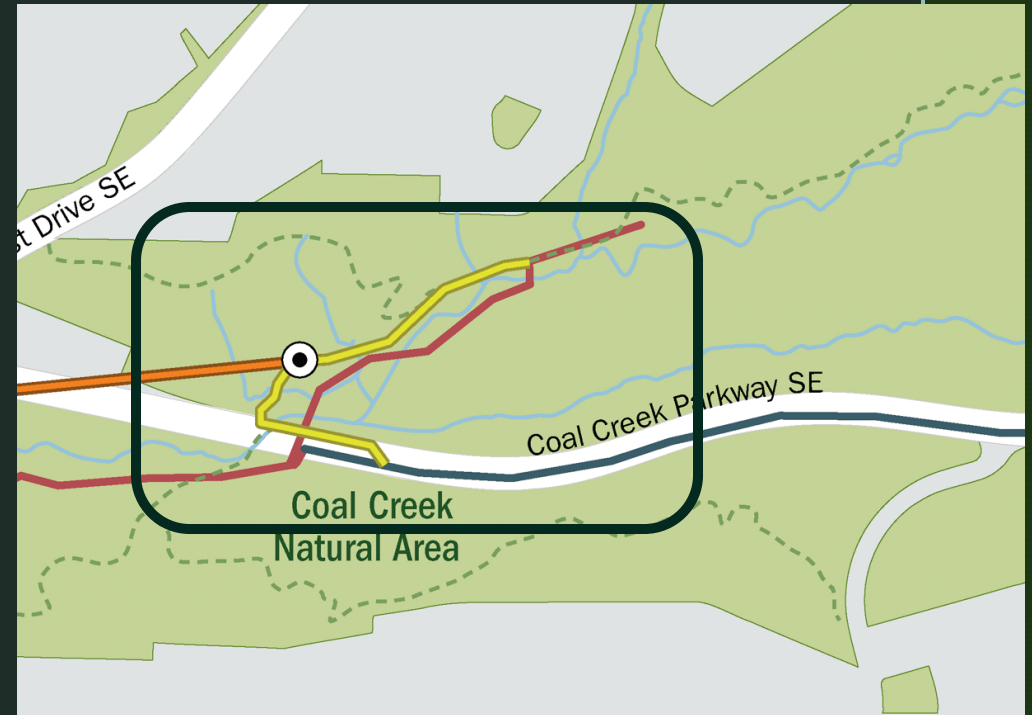
North work area

- The new pipe exit pit
- Connection to the East Side Interceptor
- Residential pipes connected to the new Coal Creek Sewer Trunk



Installing connections in the Natural Area - South

- A connection between Bellevue's system and the new Coal Creek Trunk will be built under the trail
- Work on the stream bank and a retaining wall will help protect the pipe and trail during flood events



Installing connections in the Natural Area - North

- Temporary road will provide access from Coal Creek Parkway
- Pipe installed by open trench



Construction duration and considerations

Most extensive work is at the Upper West Trailhead, which is expected to be closed for 3 years:

- Tunneling will take 2 years
- Fish windows will affect the schedule
- Allowed work hours affect overall duration: longer work hours reduce length of construction
- Connections and restoration extend this schedule

Impacts: Upper West Trailhead

- Trailhead and part of trail closed for up to 3 years
- City of Bellevue access maintained for stormwater maintenance activities



Trail access during construction



- Parking at alternate trailheads
- Trail detour around the work area

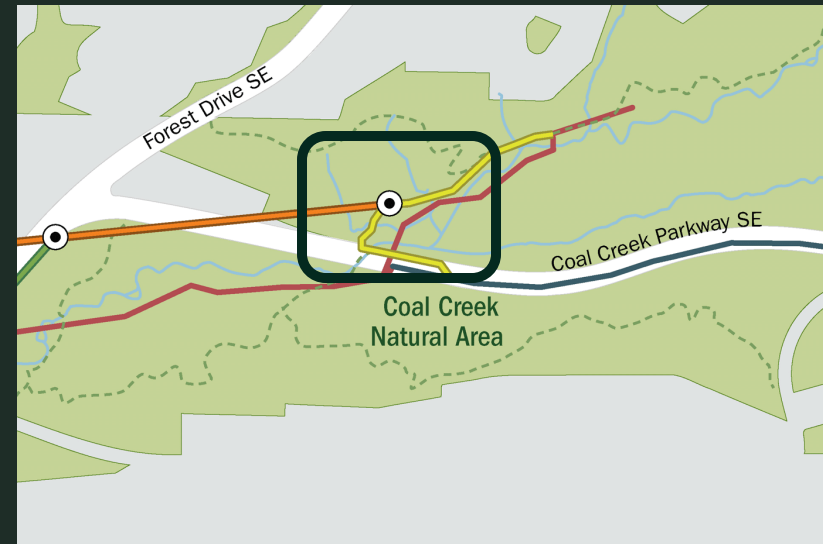
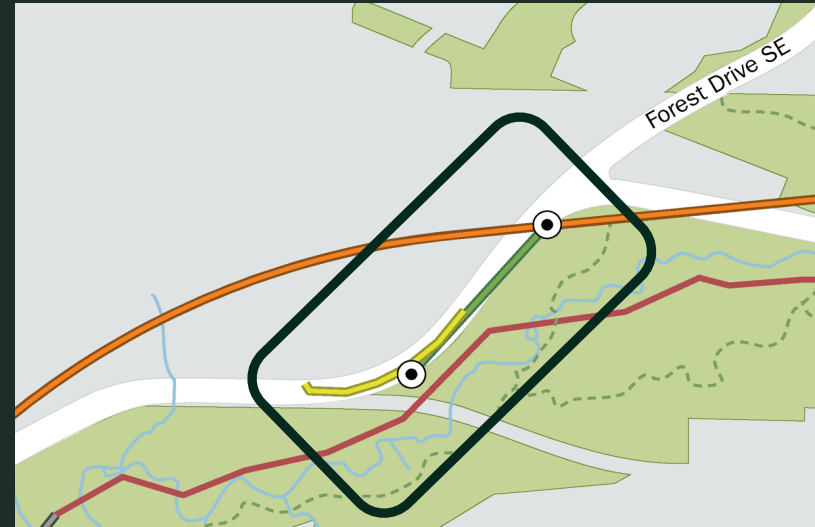
Traffic impacts on Coal Creek Parkway

Truck access lane
needed to safely enter
and exit Parkway from
work sites



Central connections: traffic impacts

- Working in the Coal Creek Parkway in two locations:
 - By central connection
 - Near the trailhead



Traffic control options for building in Coal Creek Parkway



- Work in phases
- Work off hours or extended hours

Protecting the environment during construction

- Construction controls will be in place for:
 - Water quality
 - Air quality
 - Traffic
 - Noise and light





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Community elements and outreach

Monica Van der Vieren, King County Community Relations

Trailhead restoration

- Restore pavement and parking stalls
- Return green stormwater features:
 - Pervious pavement
 - Rain garden
 - Native plants



Restoring, repurposing, and recycling

- Store and return trailhead signage
- Use landscaping materials on other City of Bellevue sites
- Host community plant salvage events



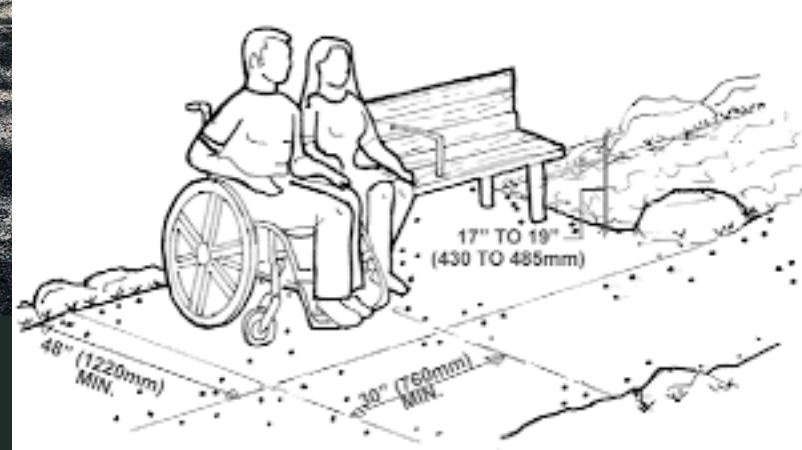
Restoration

- Restore for better access:
 - Maintenance
 - Accessibility for people with disabilities



Signage and seating

Restore with greater
accessibility and
education



Forests and streams

This project will affect trees and other vegetation

Affected areas will be restored with a healthy tree canopy and habitat for wildlife

Join us on June 23 to talk about environmental protections and restoration!

Working with you in a challenging time

King County works hard to meet our communities where they are at and engage them.

We're adapting for the current situation, looking for safe, meaningful ways to work with people.

Events and programming

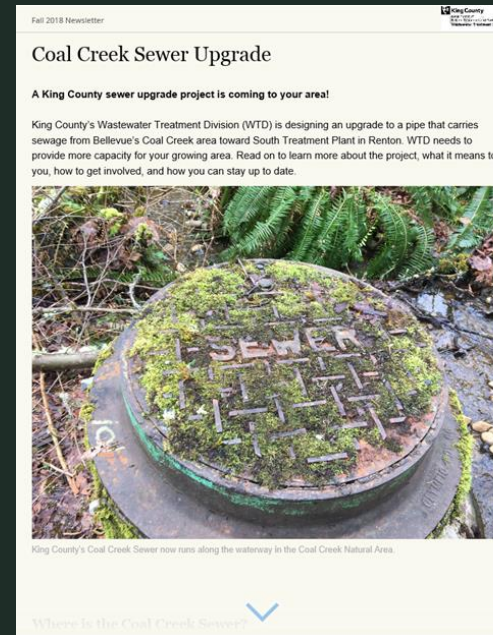
We usually provide education, host events, and participate in fairs, festivals, and other events.

The Coal Creek team is working on ways to honor our commitment safely in the current situation! Got ideas that work for you? Let us know.



How you can stay connected

- Project Web page
- Newsletter and electronic updates
- Virtual meetings and briefings
- Online open house




You can help us serve you

- Fill out the post-meeting survey
- Contact us with questions and thoughts
- Let us know if you would like to discuss the project through an interpreter


Information and library:

www.kingcounty.gov/CoalCreekSewer

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Natural Resources and Parks

Wastewater Treatment Division

Capital projects

Current projects

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Coal Creek sewer upgrade

Public involvement

Library

Chelan CSO control

Eastside Interceptor lining - Renton

Georgetown Wet Weather Treatment Station


Interbay sewer and odor control upgrade

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Coal Creek sewer upgrade

Public involvement | Library

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 **Wastewater Treatment Division (WTD) operations and projects**

WTD operations staff remain on the job 24/7 to ensure the region's wastewater treatment service continues. More information on how to report a problem you believe may be related to the County's wastewater treatment system is available here: <https://www.kingcounty.gov/depts/dnrp/wtd/response.aspx>

The King County Wastewater Treatment Division remains committed to sharing information and gathering feedback from community members about its work and projects. WTD staff remain available to answer questions via email and phone during regular business hours. Project information lines remain available and are being monitored for ongoing construction projects.

[Information for...](#) [Do more online](#) [Get help](#) [Español](#)

Next webinar

Work the Coal Creek Natural Area

June 23, 2020 6-7:30 pm



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Questions?