

PROJECT OVERVIEW

The Kelowna Integrated Water Supply Plan calls for a city-wide water system to achieve the best, lowest cost city-wide solution, meet Canadian Drinking Water Quality Standards, and maintain agricultural interests.

On June 4, 2018 the South East Kelowna Irrigation District dissolved and transferred ownership of the water system to the City of Kelowna.

PHASE 1

Separate agricultural and domestic water systems.

Phase 1 will deliver a sustainable water supply for agriculture in the South Mission and bring clean drinking water to nearly 2,000 households in Southeast Kelowna.



July 2018 to 2021



\$86 million, partially funded by \$43.9 million grant

PHASE 2

Construct KLO transmission main.

In June 2018, the Government of BC announced an additional \$12 million to support completion of Phase 2. KLO transmission main construction was initially removed from Phase 1 to manage costs, ensure reasonable financing for residents, and to proceed on schedule.



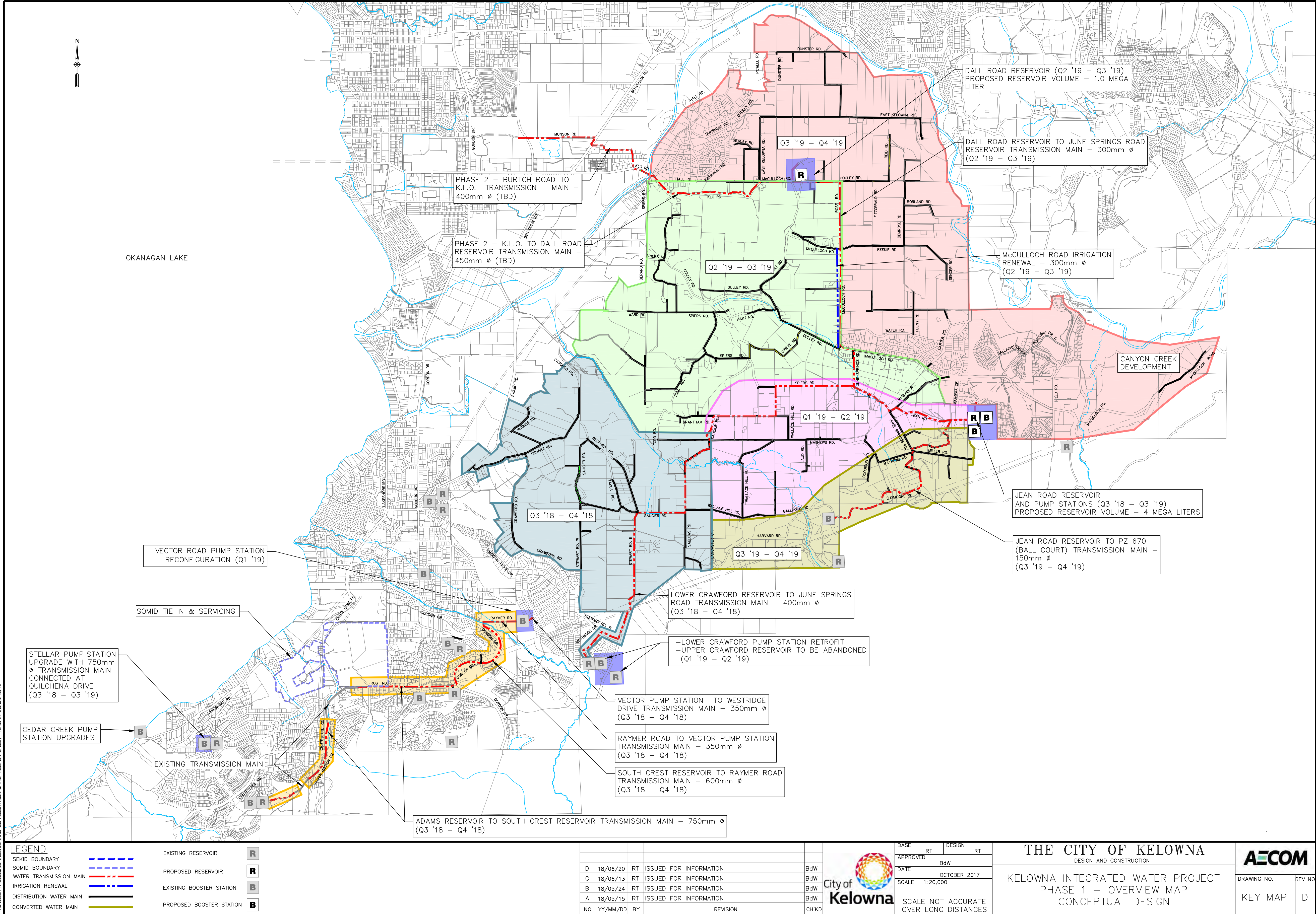
2019 to 2020

Kelowna Integrated Water Supply Plan

Summer 2018



OVERVIEW MAP



SOUTH MISSION – GORDON DRIVE

Frost Road to Steel Road

- ▶ One lane northbound, one lane southbound maintained.

Steel Road to Bellevue Creek

- ▶ One lane northbound, one lane southbound maintained. Northbound bicycle lane and sidewalk on Gordon will be closed.

Steel Road to Arbor View

- ▶ Closed from 794 to 827. Local access maintained.
- ▶ Through vehicle and bicycle traffic detoured down South Ridge Drive. Pedestrian traffic detoured north and south through Swallow Court Trail and walkways 274 and 275.

Steele Road West

- ▶ Partial road closure, local access maintained. Through traffic detoured.

Frost Road at Gordon Drive

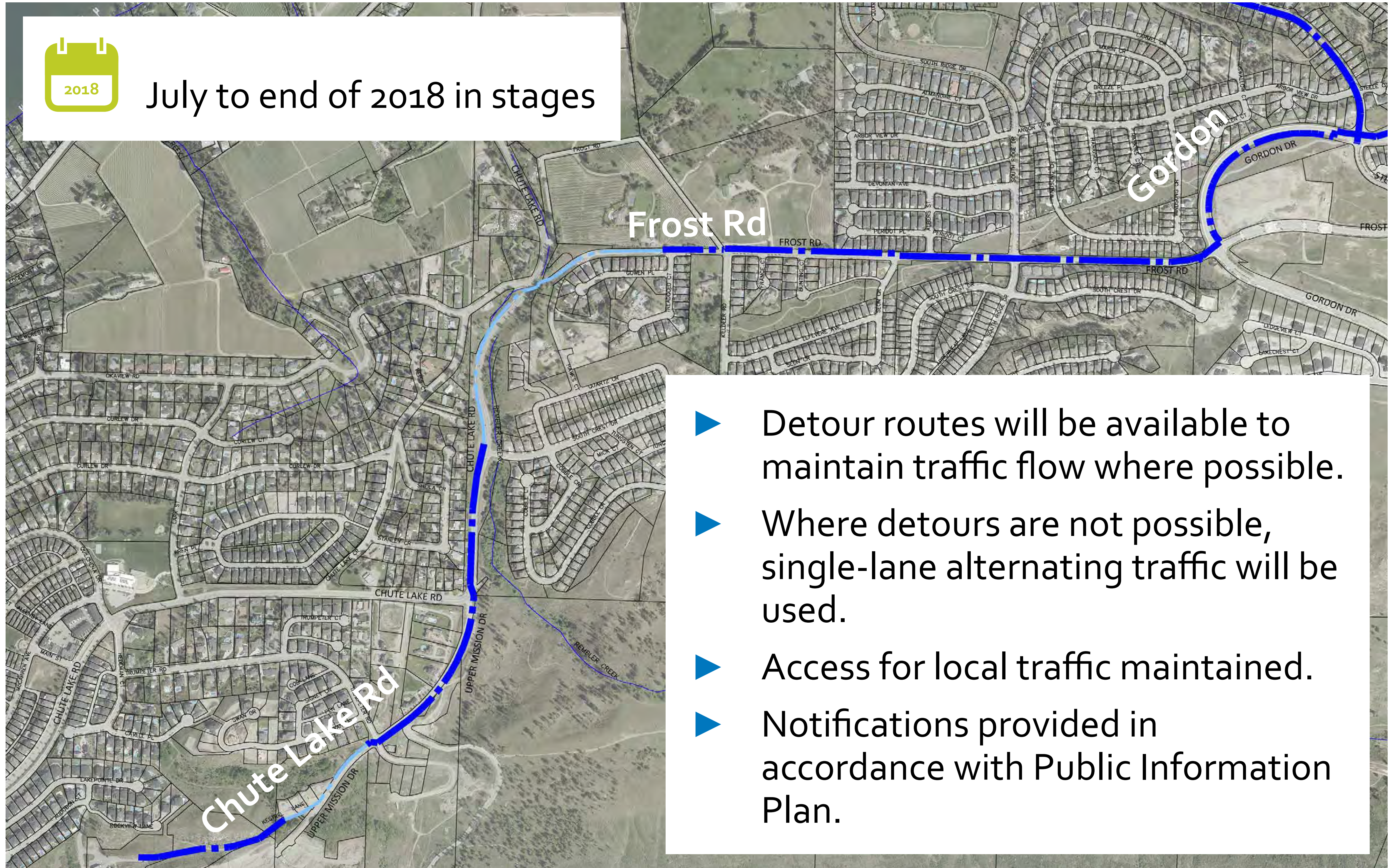
- ▶ Portion of Frost Road eastbound and Gordon Drive westbound closed. Detour available.



SOUTH MISSION – FROST ROAD & CHUTE ROAD



July to end of 2018 in stages



- ▶ Detour routes will be available to maintain traffic flow where possible.
- ▶ Where detours are not possible, single-lane alternating traffic will be used.
- ▶ Access for local traffic maintained.
- ▶ Notifications provided in accordance with Public Information Plan.

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WATERLINE CONSTRUCTION

The water system is comprised of two types of waterlines: transmission mains and service lines.

Transmission mains

- ▶ Main piping system that brings water to and from pump stations and reservoirs.
- ▶ Size and location: 30 cm (12") to 75 cm (18") in diameter, generally routed along major roads.

Service lines

- ▶ Piping system that brings water from the transmission main to a house or property.
- ▶ Size and location: 7.5 cm (3") to 20 cm (8") in diameter, routed along a road or statutory right of way.
- ▶ In some places, the existing SEKID system will be converted to the City water system.
- ▶ Water pressure at the home may vary slightly from what it is today. It will meet City of Kelowna bylaw and be between 45 PSI and 120 PSI. Homes above 80 PSI will require a household pressure reducing valve.

Restoration

- ▶ **Property line:** Items and existing features adjacent to road right of way that are permitted to be there will be restored.
- ▶ **Statutory right of way (SRW):** Items and existing features on the SRW agreement that are permitted to be there will be restored.

WHAT TO EXPECT DURING CONSTRUCTION

Crews locate utility line & identify existing buried utilities

Survey crews lay out new infrastructure

Asphalt roadway & landscape removed

Excavation for new watermain; install pipe; backfill & compaction

New pipes tested & disinfected

Road & landscaping restored

The entire Southeast Kelowna water system operates as a network. Even though construction might be done on your road, you are not assured clean drinking water until the entire system is complete in 2020.

Detours

- ▶ Routes will be signed.
- ▶ Where detours are not possible, alternating traffic will be implemented with no more than 15-minute waits.

Noise

- ▶ Work will generally occur between 7 a.m. and 5:30 p.m., Monday to Friday.
- ▶ Work may occur outside of these hours to mitigate traffic impacts.

Vibration

- ▶ Depending on ground conditions, residents might feel vibrations from pipe and roadway installation.

Dust

- ▶ Suppressed by water as required.

Garbage pick-up and mail delivery

- ▶ Will proceed as normal.



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JEAN & STELLAR PUMP STATION / RESERVOIR

A pump station pumps water up from Okanagan Lake to the reservoirs, where it's stored before distributing to customers as needed.

Jean Road facility

- ▶ City-owned parcel ideally suited for a water storage facility and was acquired for this purpose.
- ▶ After construction, the property outside of the construction area can be used by the public as it is today.
- ▶ There's no extra expense to the project or to system users, because the parcel is already owned by the City.
- ▶ 1.4 acres of the 46.4 acre parcel will be used for the water facility.
- ▶ Located 40 metres from the property line to provide a buffer between the facility and neighbouring properties.



Stellar Road facility

- ▶ The city-owned parcel is 0.35 acres in size and adjacent to road.



JEAN ROAD PUMP STATION / RESERVOIR

Noise

- ▶ Pump noise will be dampened within concrete building and meet noise dampening requirements.
- ▶ Some noise might be heard from the backup generator during a power outage or testing, but the site should otherwise be quiet.

Environmental assessment

- ▶ Environmental impact assessment completed.
- ▶ Best practices for work in sensitive areas will be strictly followed for both construction and operation of the facilities
- ▶ A second water main will be constructed between Jean Road and Gallagher's Fairway South. The access road, water main and power connections to the site will be designed to minimize impacts such as tree removal, and the area restored with natural surface cover.



SERVICE INSTALLATION

Work will generally be completed in two stages due to sequence of construction, testing, flushing, disinfecting, and testing of the water system.

Stage 1

- ▶ Construction crews install new transmission main then refill road. Paving will occur within 120 days after digging.

Stage 2

- ▶ Crews connect service lines to new water mains and disconnect service lines from existing SEKID main.
- ▶ This may occur after the road has already been paved.

Between stages

- ▶ Time between stages could range from weeks to six months.
- ▶ Digging will likely occur in roads multiple times throughout the project.



SERVICE TYPES

Agriculture irrigation

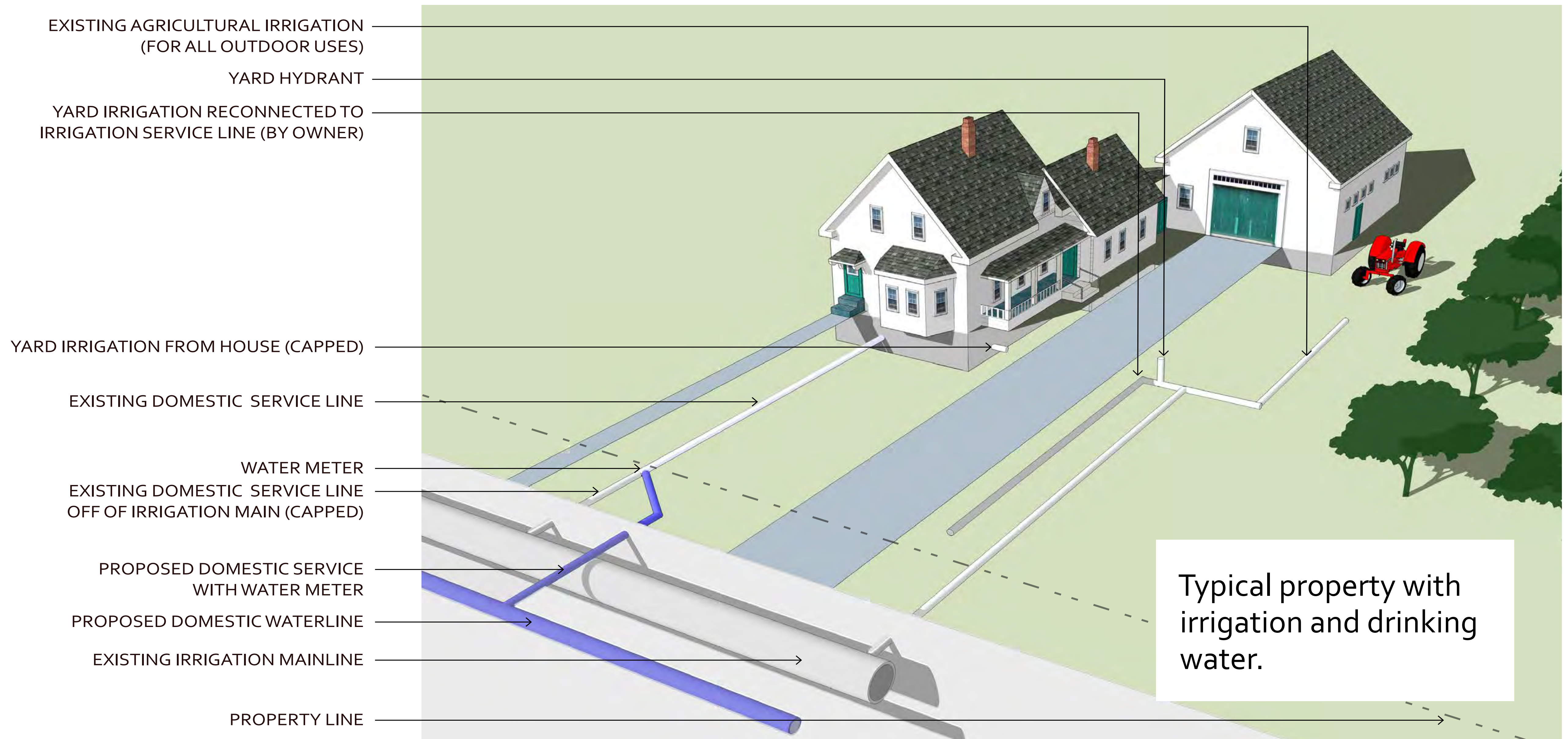
Customers will receive normal service, and existing irrigation will remain.

Domestic water service

Connected at property line for use inside homes, outbuildings, suites and swimming pools.

Private property

Connections within private property are at the customer's cost. Benefits include lower rates for landscaping use.



NOTIFICATION AND PLANNING

Notice

- ▶ Notice of construction provided to residents seven days prior to start of construction.

Utility service disruption

- ▶ Four days notice provided before planned work that will disrupt water, gas, power and/or communications

Water quality

- ▶ Until the entire project is complete in 2020, residents will follow SEKID's water quality advisories.

Businesses

- ▶ Plan pro-actively, keep up-to-date with project information, and communicate in advance with customers and suppliers.
- ▶ Review our Open During Construction guide for businesses, available online at kelowna.ca.

Your point of contact

- ▶ A community liaison, working with the contractor, will notify residents and businesses adjacent to construction, facilitate requests, and address construction-related concerns.

250-868-5714 | clo@eac.bc.ca

To learn more and sign up for e-updates, visit kelowna.ca/water.

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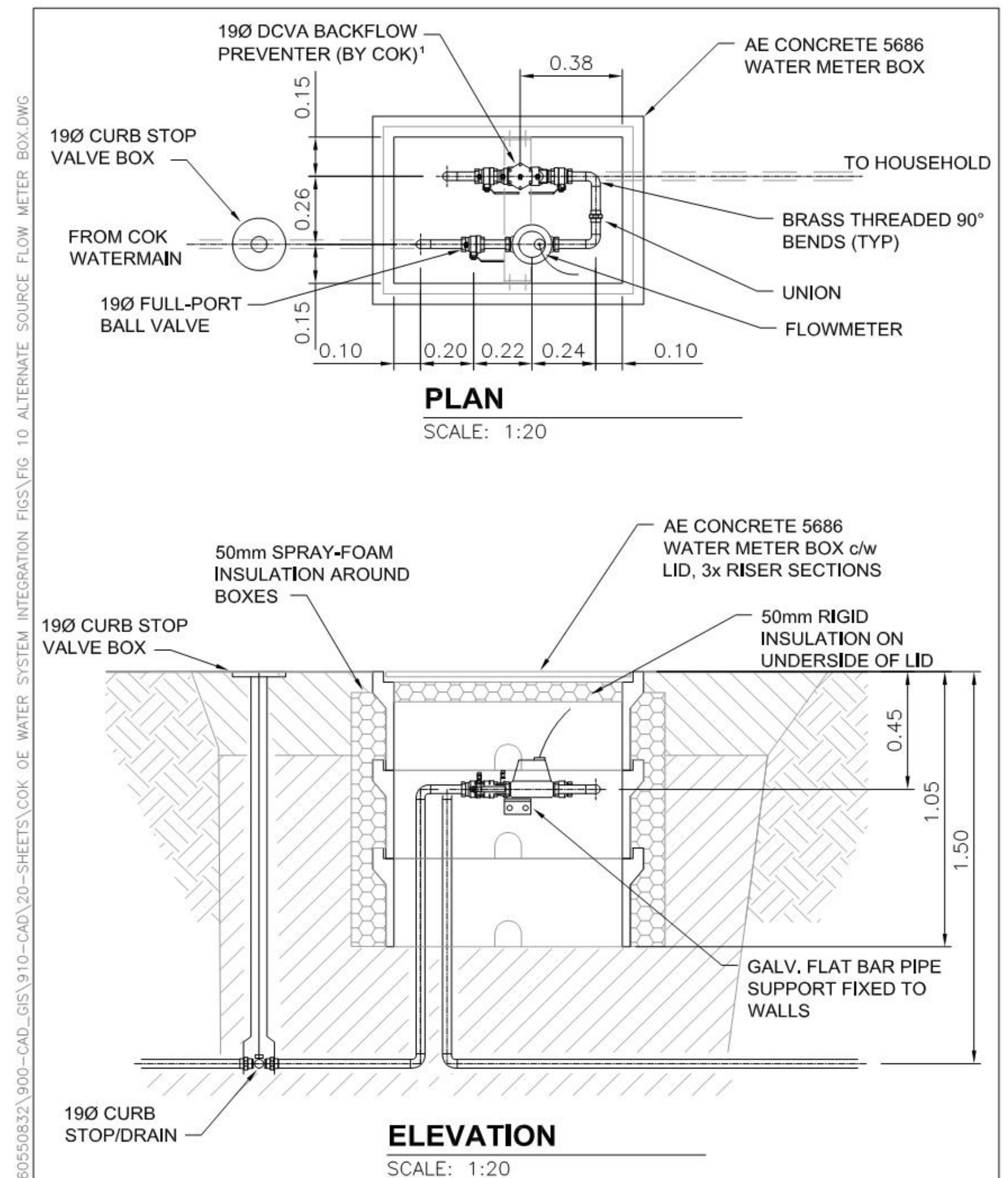


WATER METRES – WHAT TO EXPECT

Water metres are required on properties to receive water services.

Properties with irrigation and drinking water service

- ▶ Water metre generally placed in a pit at the property line.
- ▶ Permitted items and existing features on private property that are disturbed through installation will be restored.



Pictured: Metre in pit

Properties with drinking water service only

- ▶ Water metre generally installed in or on residence.
- ▶ Installation coordinated between contractor and property owner.

COMMITMENT TO SAFETY

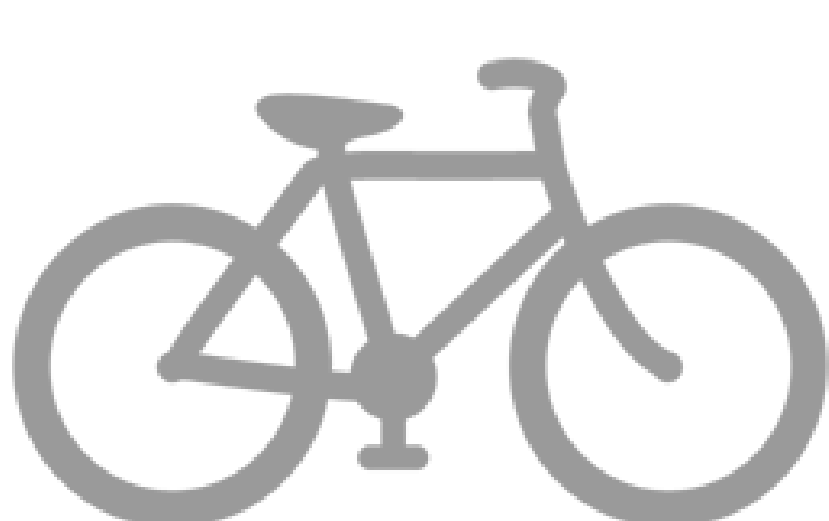
The City, the contractor and on-site workers are committed to ensuring a safe and healthy work environment. We will focus on eliminating and mitigating hazards.

Traffic control personnel

- ▶ Direct drivers through work zones.
- ▶ Ensure safety of the public and work crew.
- ▶ Use visual signals to stop or move traffic through the work zone.

People driving, walking, and bicycling

- ▶ Respect signage and follow directions of safety personnel.
- ▶ Stop when directed to stop and move when directed to move.
- ▶ Give yourself extra time before leaving for your commute.



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