# City of Kelowna Urban Tree Canopy Enhancement Strategy

City of **Kelow** 

May 27, 2024

# Strategy Purpose

- Address the impacts of development on the urban tree canopy and reduce encroachment into natural forests.
- ▶ Use opportunities provided by re-development to plant trees for the benefit of the public realm.
- Improve urban tree care.
- Achieve canopy coverage goals set out by the *Sustainable Urban Forest Strategy* and *OCP*.

# **Progress Summary:**

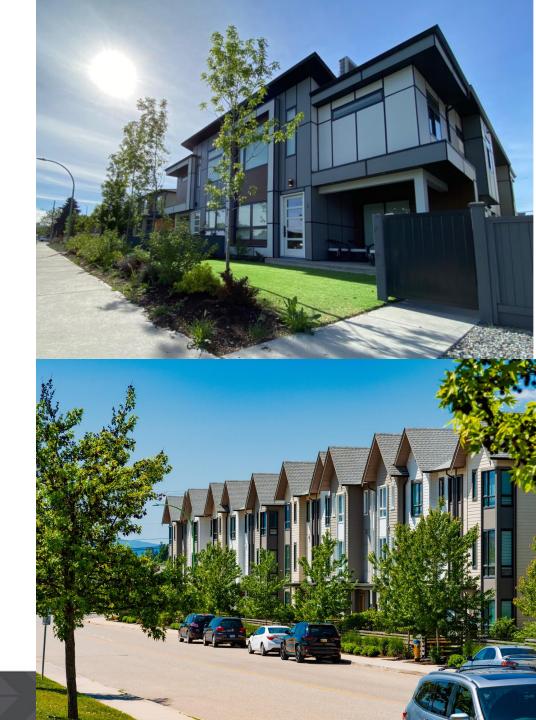


- Increased tree planting requirements and improved tree planting standards in the Zoning Bylaw.
- 2. Established process to identify pre-development trees that could be retained successfully post-development and what protection measures are needed.
- <sup>3.</sup> Updated the natural area tree protection bylaw to further limit tree removal.
- 4. Increased staff inspection capacity to monitor tree planting.
- 5. Developing tree care standards and bylaw requirements to maintain tree health.

#### Zoning Bylaw Updates (Sept. 2022, April 2024)

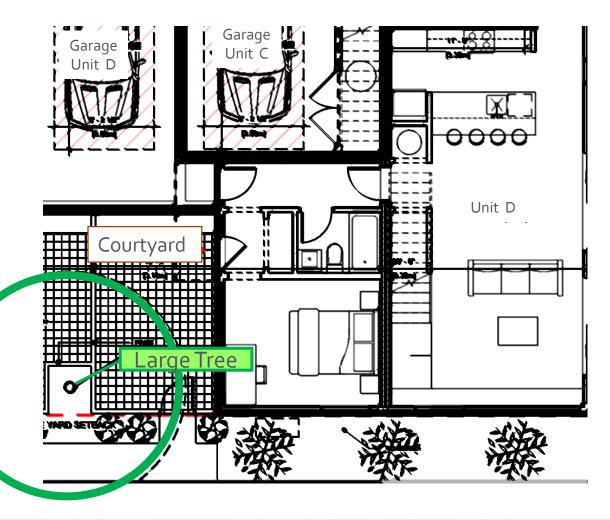
Section 7 – Site Layout:

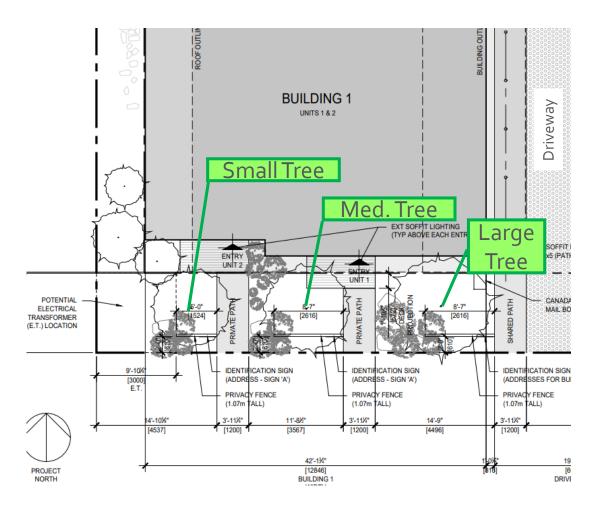
- Create better planting conditions for trees (soil volume, parkade setbacks, and soil cell requirements).
- Increase the number of required new trees planted in parking lots.
- Require at least one large tree planted (in addition to other trees).
- If planting area is impacted by utilities or other constraints, offer accommodations to ensure trees are planted elsewhere on site (delegated variances).

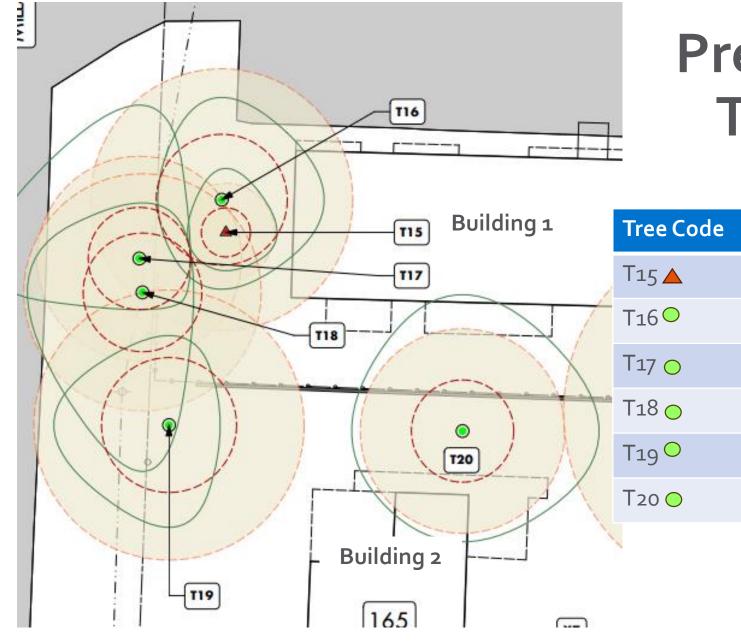




## Infill Templates – planning for trees







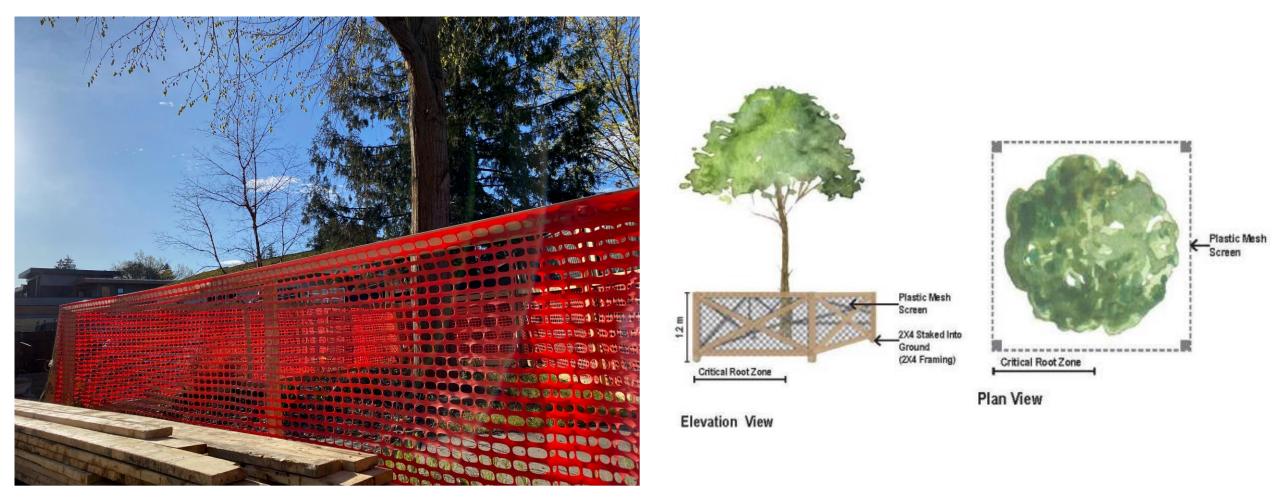
# Pre-Development Tree Inventory

	Tree Code	Common Name	Category
1	T15	Siberian elm	Remove
1	T16 O	Scots pine	Retain
<hr/>	T17 🔿	Scots pine	Retain
1	T18 🔿	Norway maple	Retain
)	T19 O	Douglas fir	Retain
	T20 🔿	Norway maple	Retain
1			

City of Kelowna

### Tree Protection Zone Installation Standards

- Must be installed prior to any work commencing
- Must remain in place (original location) throughout construction process
- No incursions are permitted inside or against the protection zone



## Does the built landscape

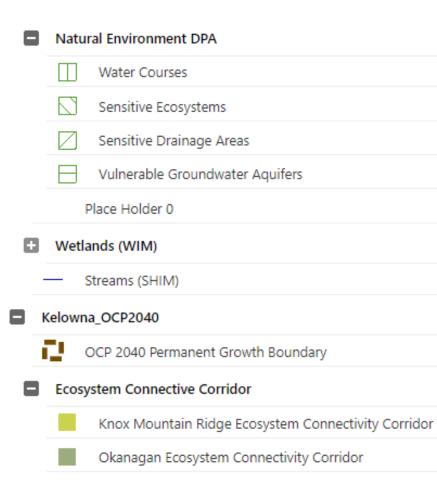
FILLING

### Match the proposal...

Items Description	Units	Qty.	Price	Item Total
1.0 Plant Material				
1.1 Trees				
1.1.1 6cm Cal.: Deciduous Tree	ea.	7	\$550.00	\$3,850.00
			Sub-Total	\$3,850.00
1.2 Ornamental Shrubs, Perennials, Ground Covers				
1.2.1 #3 Pot: Shrubs (1.2m Spacing)	ea.	49	\$45.00	\$2,205.00
1.2.2 #1 Pot: Grasses (0.6m Spacing)	ea.	86	\$15.00	\$1,290.00
1.2.3 #1 Pot: Perennials & Herbs (0.6m Spacing)	ea.	81	\$15.00	\$1,215.00
			Sub-Total	\$4,710.00
1.3 Lawn				
1.3.1 Sodded Lawn	m²	26	\$8.00	\$208.00
			Sub-Total	\$208.00
			1.0 Total	\$8,768.00
2.0 Topsoil & Mulch				
2.1 Topsoil				
2.1.1 Shrub Bed Topsoil (450mm Depth)	m³	45	\$50.00	\$2,250.00
2.1.2 Tree Pit Topsoil (1000mm Depth)	m³	7	\$50.00	\$350.00
			Sub-Total	\$2,600.00
2.2 Mulch				
2.2.1 Ogogrow Mulch (75mm Depth)	m³	7.5	\$65.00	\$487.50
			Sub-Total	\$487.50
			2.0 Total	\$3,087.50
3.0 Servicing				
3.1 Irrigation				
3.1.1 Sleeving	l.s.	1	\$1,000.00	\$1,000.00
3.1.2 Point of Connection to Water Service	l.s.	1	\$1,500.00	\$1,500.00
3.1.3 Point of Connection to Electrical Service	l.s.	1	\$500.00	\$500.00
3.1.4 Control System	l.s.	1	\$1,500.00	\$1,500.00
3.1.5 Irrigation system (heads, pipes, valves)	m²	126	\$15.00	\$1,890.00
			Sub-Total	\$6,390.00
			3.0 Total	\$6,390.00
			TOTAL	\$18,245.50
		Security	Total (125%)	\$22,806,88

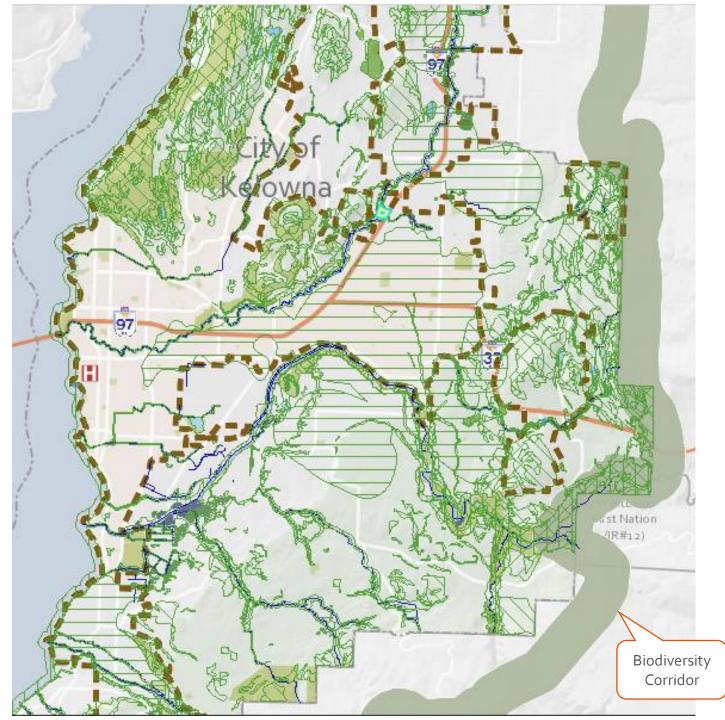
Security Total (125%) \$22,806.88
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### <u>2040 OCP</u>



Natural Environment DPA Tree Canopy = **28%** 

Urban Areas Tree Canopy = **15%** 





### What's Next?



Encourage better tree care to support tree longevity after development occurs:

- Make room for roots, good soil.
- Protect trunks and roots installation guidance.
- Require irrigation.
- Include Climate Resiliency Assessment:
  - Shading of amenity space and/or buildings
  - Irrigation efficiency standards (as per current water supply bylaw) and on-site water harvesting through permeable surface/stormwater infiltration requirements.
  - Mulching standards
  - Species recommendations

Plant the right tree in the right place!

#### What's Next?

Updates to the following bylaws:

- Subdivision and Development Servicing Bylaw No. 7900, which governs tree installation in boulevards and similar rightof-way areas.
- Boulevard Maintenance Bylaw No. 10425, which sets responsibilities for vegetation management in boulevards.
- A new Landscape Standards Bylaw is needed to set maintenance standards on private property.

### **Staff Recommendation**

THAT Council direct staff to prepare amendments to **Bylaw No. 10425**, to align street tree care and boulevard maintenance standards with other City Bylaws, prior to July 2024.





#### Questions?

For more information, visit kelowna.ca.