

CORRIDOR TREES



The trees along Summit Avenue play an integral role in creating a recreational parkway experience east to west across the City. In planning for roadway reconstruction and a regional trail facility, it is important to develop a design approach that prioritizes tree health and preservation.

Roadway and trail construction carry risk to existing vegetation. To evaluate a design approach, this study looks at location of curb lines relative to tree critical root zones (CRZ) and structural root zones (SRZ).

NOTE: Exercise is reflective of data currently available and is subject to variability. Existing Ash trees are included in the exercise overall. **Surveyed data, site specific tree and field conditions corridor-wide are not available at this time.**

Potential Risk of Tree Impacts

LOW MEDIUM HIGH

Risk to trees is highly variable depending on specific site conditions, health of tree, and tree species.

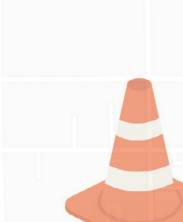
Potential risk to trees was evaluated for corridor-wide concepts based on proximity of root zones to curb lines. In this study, approximately 8%-15% of the trees in the Summit Avenue corridor could be considered highly vulnerable to construction. Specific impacts and tree preservation strategies will need to be evaluated beyond the master plan during design and engineering phases of a project.

1,561 TREES CORRIDOR-WIDE

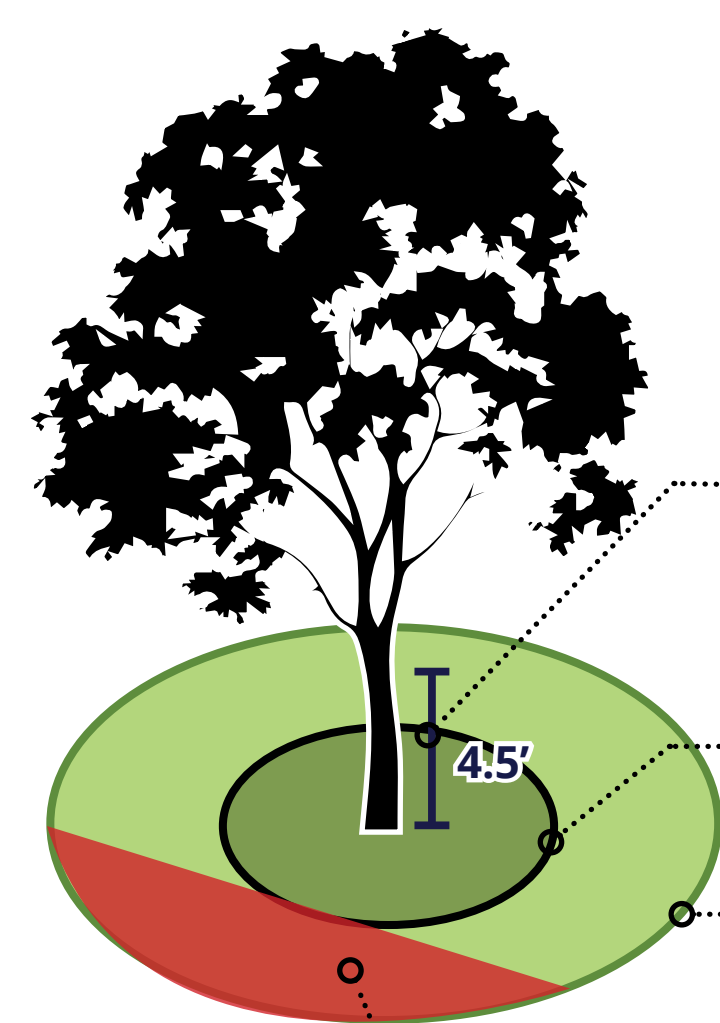
132 HIGH VULNERABILITY TREES (8%)

Existing Conditions

Baseline Evaluation for roadway reconstruction



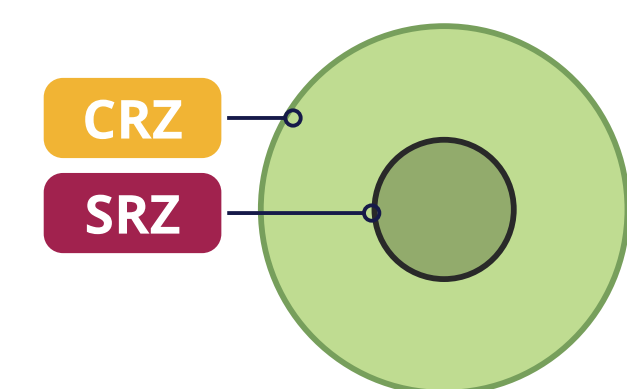
Evaluating Impacts



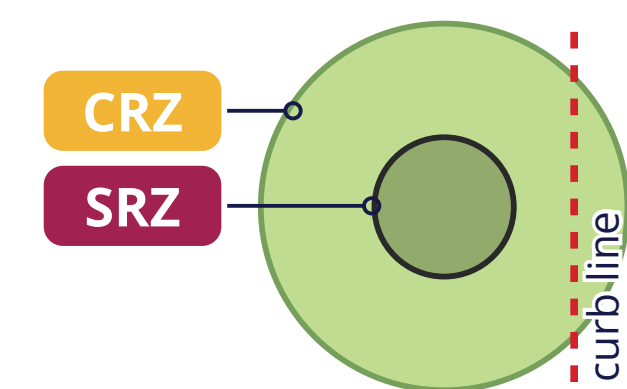
Tree diameter is measured 4.5' from the ground

SRZ Structural Root Zone
CRZ Critical Root Zone

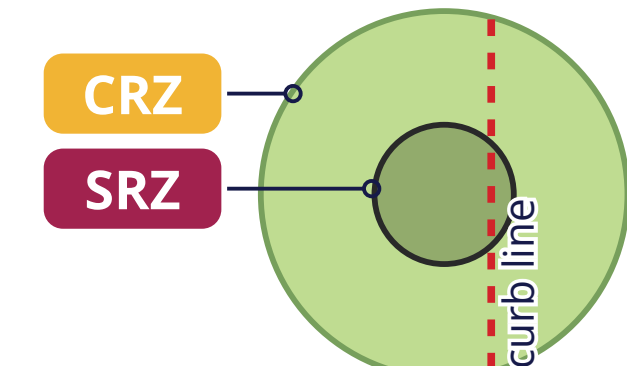
Construction encroachments shall occupy no more than 25% of the total area in the critical root zone



Low Vulnerability
Curb line is outside of both critical and structural root zones.



Medium Vulnerability
Curb line is within critical root zone but not structural root zone



High Vulnerability
Curb line is within both critical and structural root zones

Trail Facility Design Approaches

Legend

- One-Way Trail Facilities
- Two-Way Trail Facility
- Facility Type Transition

One-Way Trail: Corridor-wide

221 (+89) HIGH VULNERABILITY TREES (14%)

Secondary Development Concept: Transition at Lexington

221 (+89) HIGH VULNERABILITY TREES (14%)

Lexington

Draft Master Plan