

Tree Planting Plan

To: Nathan Korpela – Project Owner
Jessyca Poole – Poole Architecture

From: Benjamin Mark Certified Arborist Pn-6976a
Salish Restoration Associates LLC

Date: 5/25/24

Re: 8441 SE 33rd Place Mercer Island, WA

Greetings Mr. Korpela,

Thank you for reaching out to help develop a tree planting plan for your project. I have reviewed your current site plan and the required replacement ratios for any significant trees that are removed per MICC 19.10.070.

The site plan shows Trees #1 and #2 are in conflict with the proposed site improvements and will need to be removed to accomplish the development goals. Tree #3 is in poor condition and should be removed. It is not a regulated tree due to its size. All other regulated and neighboring trees are to be protected throughout the construction period.

This document will provide guidance to include tree species selection, location, planting technique, and maintenance instructions to ensure establishment of the supplemental trees. All guidelines outlined below adhere to ANSI A300 (Part 6) planting standards.

Site Requirements

According to MICC 19.10.070, the following conditions must be met for tree replacement:

1. **Replacement Ratio Based on Removed Tree DBH (Diameter at 4.5 Feet Above Grade):**
 - Less than 10 inches: one tree
 - 10 inches up to 24 inches: two trees
 - 24 inches up to 36 inches: three trees
 - More than 36 inches and any exceptional tree(s): six trees
2. **Location Priority:**
 - On-site replacement adjacent to or within critical tree areas.
 - On-site replacement outside of critical tree areas adjacent to other retained trees.
 - On-site replacement outside of critical tree areas.
 - Off-site in adjacent public right-of-way (if authorized by the city).
3. **Species and Size:**
 - Coniferous trees: at least six feet tall.
 - Deciduous trees: at least one and one-half inches in caliper.
 - Smaller trees can be authorized if demonstrated to be more suited to the site conditions.
4. **Timing:**
 - Planting should occur in the wet season (October 1 through April 1).
5. **Maintenance:**
 - Replacement trees must be maintained in a healthy condition for five years.
6. **Fee-in-lieu:**
 - If there is insufficient area to replant, a fee may be paid instead.

Replacement Proposal

Tree Inventory:

- **4x 5-gallon Douglas fir or western red cedar.** These trees are likely to be less than six feet tall at the time of planting as required by code. We recommend planting smaller specimens as these will establish more readily than B&B trees, and excavation for their installation is less likely to erode the slope. Consult with your geotechnical engineer to review the proposed plantings to identify any potential negative impacts to slope stability.

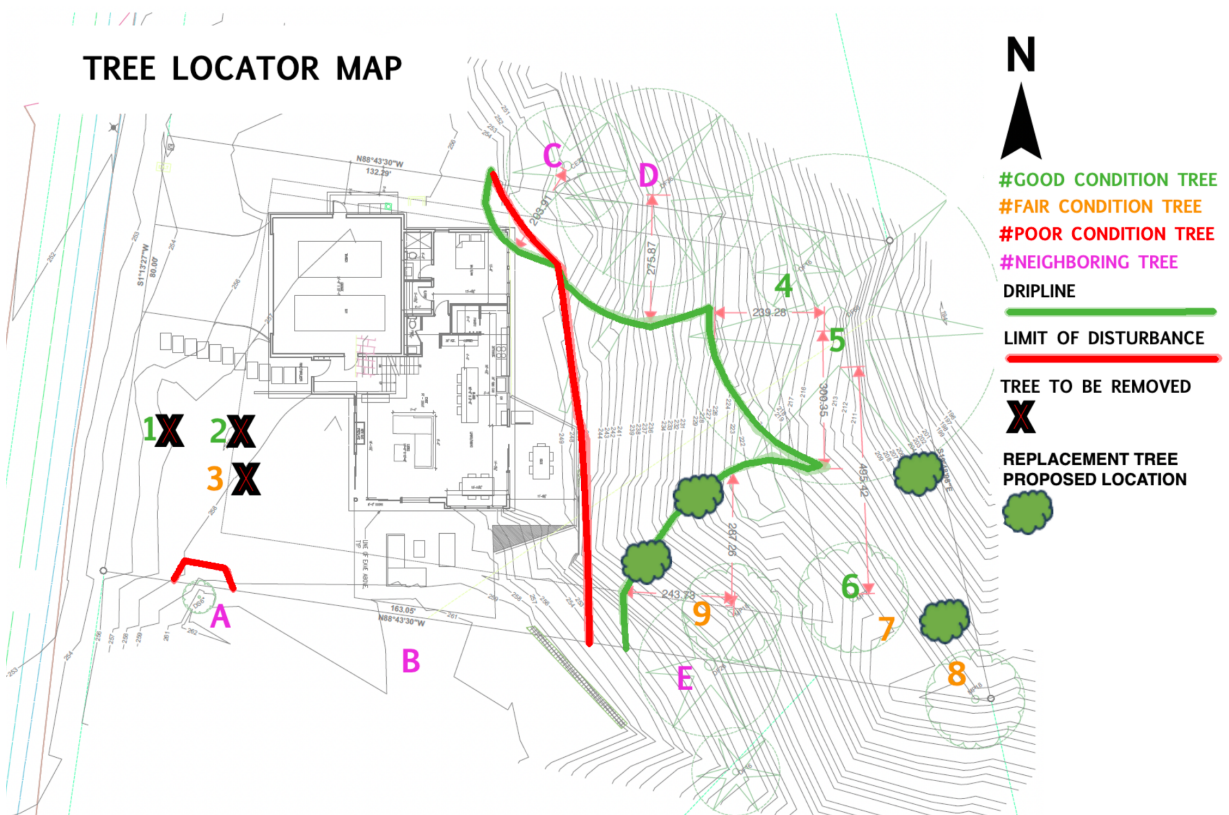
Additional Trees (Optional)

To make up for the variance from code, planting additional smaller trees is suggested:

- **3x 2-gallon Vine Maples.** These mid-level trees will add to the forest canopy complexity if planted in various locations on the slope.

Replacement Tree Locations:

- Trees should be planted on more gradual contours of the slope and where openings in the canopy will allow the replacement trees to mature with minimal competition from more established dominant trees.
- Replacement trees must be kept clear of Invasive species until they are well established. English ivy and Himalayan blackberry are found in the area and if left unmanaged these can outcompete and overtop replanted trees. Monitoring and management of invasive plant species is recommended to limit their spread on the site.



Tree Planting Plan- Arborist Report Addendum
8441 SE 33rd Place Mercer Island, WA

Planting and Maintenance Instructions

Planting:

- Dig a hole twice the width of the root ball and slightly shallower than the root ball height.
- Place the tree in the hole, ensuring the top of the root ball is level with or slightly above ground level.
- Backfill with native soil and water thoroughly.

Mulching:

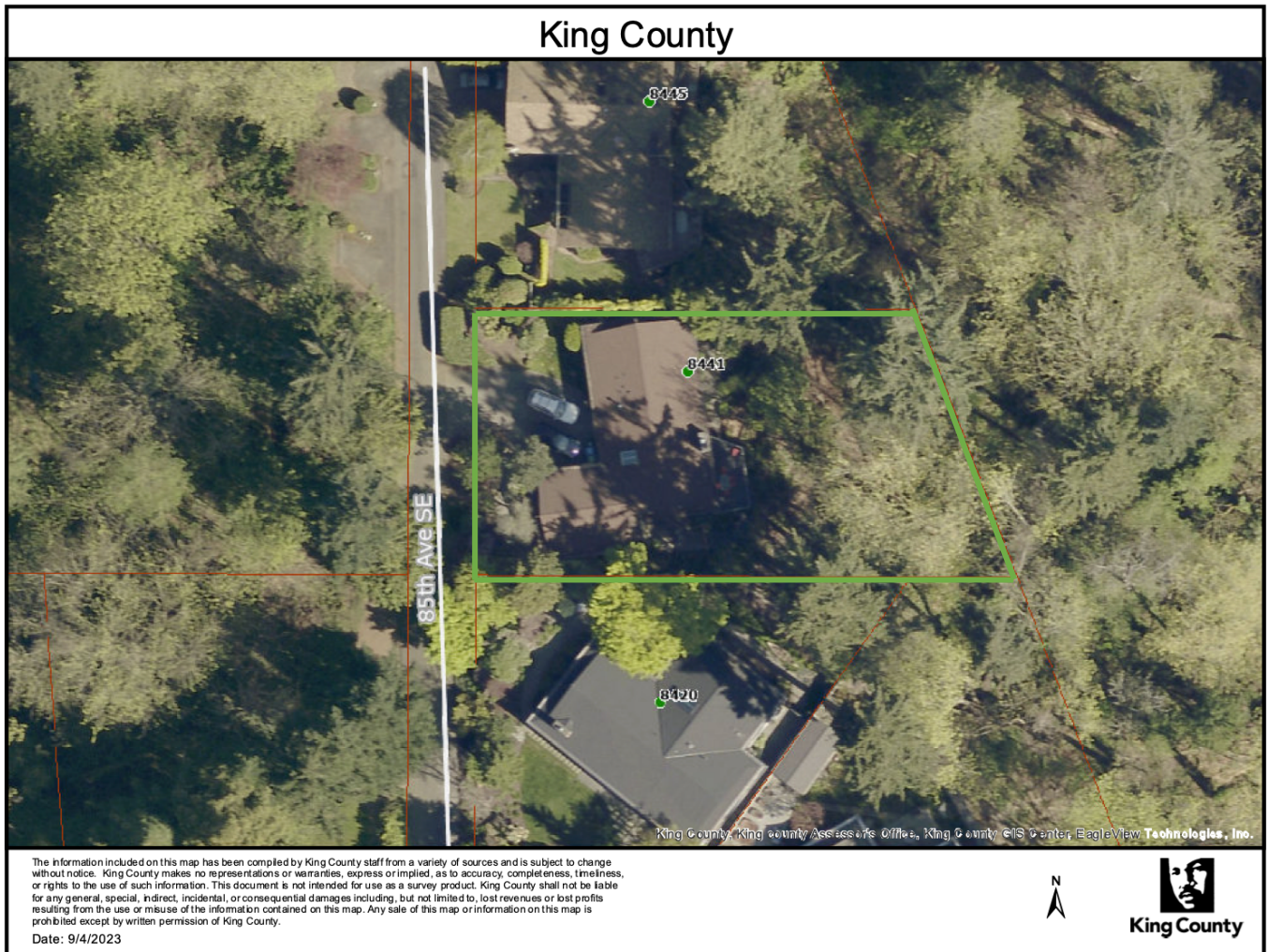
- Apply a 4-inch layer of arborist chip mulch around each tree, keeping it away from the trunk.
- Mulching helps retain moisture, suppress weeds, and improve soil conditions.

Irrigation:

- Use [Treedgator bags](#) or similar above-ground temporary irrigation systems during the dry summer months (June through September). These allow slow percolation of water to reduce or eliminate excess run-off which can cause slope erosion.
- Irrigate for two summers to ensure establishment, then evaluate for continued need.

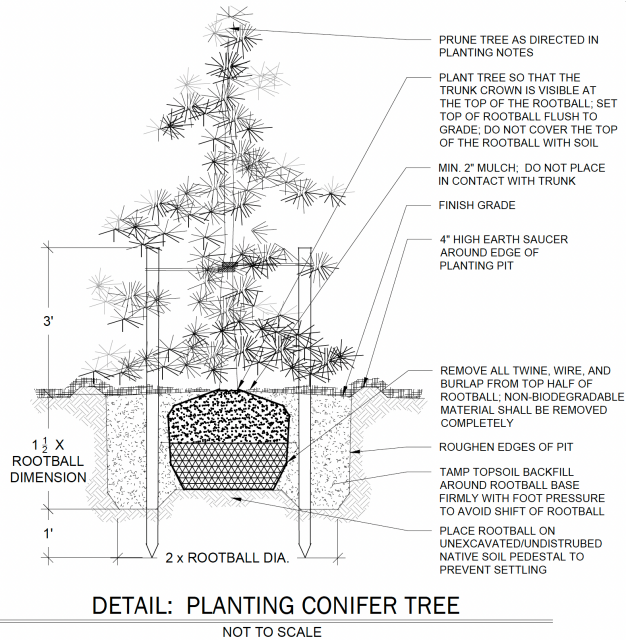
Monitoring and Replacement:

- The applicant shall maintain all replacement trees in a healthy condition for a period of five years after planting. The applicant shall be obligated to replant any replacement tree that dies, becomes diseased, or is removed during this five-year time period.



Desired Future Condition

If the site is prepared correctly and restoration planting is carried out as prescribed above, the areas should need little follow up maintenance for the next several years. After five years, trees should have attained heights of 6 to 10 feet, and more natural regeneration of native tree or shrub species should be found in the restoration zone. Follow up maintenance will primarily involve the removal of invasive species.



Limiting Conditions

There is no warranty suggested for any of the trees subject to this report. Weather, latent tree conditions, and future human-caused activities could cause physiologic changes and deteriorating tree stability. Over time, declining tree conditions may occur and defects not currently visible could cause tree failure. This report or the verbal comments made at the site in no way warrant the structural stability or long-term health of any tree, but represent my opinion based on the observations made at the time of the site visit.

Nearly all trees in any condition standing within reach of improvements or human use areas represent hazards that could lead to damage or injury.

Please call if you have any questions or need further assistance.

Sincerely,

Benjamin Mark
ISA Certified Arborist #PN-6976A
Tree Risk Assessment Qualified (TRAQ)