



Todd Prager & Associates LLC

MEMORANDUM

DATE: August 3, 2022
TO: File
FROM: Todd Prager, RCA #597, ISA Board Certified Master Arborist
RE: Tree Plan Review for Cedar Creek Gardens

This is a review of the tree plan analyzing the trees requested for preservation by both the city and community.

City Requested Preservation:

- 6602 (29"/16" DF, Good): *retain*, adjust trail 5' east, pave at grade
- 6603 (37" DF, Good): *retain*, adjust trail 5' east, pave at grade
- 8202 (18" DF, Fair): *remove*, in lot 41 building envelope
- 8211 (13" DF, Good): *remove*, in lot 41 building envelope
- 8212 (16" DF, Good): *remove*, 4' from lot 41 building envelope
- 8271 (32" DF, Good): *remove*, in lot 41 grading footprint
- 8284 (28" DF, Good): *remove*, 2' from excavation for shared driveway access

Community Requested Preservation:

- 6560 (37" DF, Good): *remove*, in lot 40 building envelope & grading footprint
- 6565 (34" DF, Good): *remove*, in lot 40 grading footprint
- 6571 (35" DF, Good): *remove*, in open space grading footprint west of lot 40
- 6602 (29"/16" DF, Good): *retain*, see above comments
- 6603 (37" DF, Good): *retain*, see above comments
- 6616 (49" WRC, Good): *retain*, this tree will be retained, typo from prior draft
- 8252 (18" DF, Good): *remove*, 4' from excavation for driveway access
- 8271 (32" DF, Good): *remove*, see above comments
- 8320 (16" BL Maple, Good): *remove*, within driveway access footprint
- 8339 (40" DF, Good): *retain*, adjust driveway access 5' south, pave at grade
- 9221 (28" DF, Good): *remove*, 2' from excavation for ROW improvements
- 9223 (17" DF, Good): *remove*, in excavation for ROW improvements
- 9224 (42" Hemlock, Good): *remove*, 1' from excavation for ROW improvements

Large and Unusual Trees

Large stature trees are defined as being over 30-inch DBH but there are no specific standards in the Sherwood code for preserving large stature trees.

Trees of unusual size is a discretionary standard which is not defined in the Sherwood Code. In my experience measuring trees in the region, I would consider bigleaf maple, Douglas-fir, and western hemlock trees over 36-inch DBH to be large, but fairly common. Trees over 48-inch DBH are more rare and may be considered unusual. I do come across trees of these species in the 50- to 60-inch plus DBH range which many arborists would consider rare and unusual for this region.

It is important to recognize that the larger a tree is, the larger its root protection zone needs to be given both the size of the root zone, and the sensitivity of older trees to construction impacts. A minimum root protection zone radius of one foot per inch of DBH is a typical recommendation.

Tree Preservation Measures

Table 1: Tree Preservation with Draft Plans

Plan Date	# Trees Retained	# Trees Removed	% Retained	Sq. ft. canopy (outside env. lands)
11/3/2021	833	746	52.8%	48,048 ft ²
5/17/2022	877	702	55.5%	60,812 ft ²

Table 1 is a summary of the additional preservation measures comparing the November 3, 2021 draft and the May 17, 2022 draft of the plans.

Both drafts preserve over half of the trees at the site. The May 17th draft preserves an additional 44 trees and an additional 12,764 square feet of tree canopy outside of environmentally constrained lands. The city's tree preservation requirements will be met through preservation of existing trees alone. However, additional trees will be planted through street tree and other landscaping requirements.