

New and Retained Trees

This checklist is intended to highlight items critical to the performance of trees that need to be addressed in the design plans and verified by a City of Seattle (COS) Seattle Public Utilities (SPU) plan reviewer or a designated representative. Some items have detailed requirements that may not be explicitly stated; refer to the Stormwater Flow Control and Water Quality Treatment Technical Requirements Manual (Manual) and the Right-of-Way Improvements Manual (ROWIM) for specifics. Resources and their links are listed at the bottom of this checklist.

Items identified by a **FC** are GSI Engineering Design Feasibility Considerations as discussed in Appendix B of the “Requirements for Green Stormwater Infrastructure to the Maximum Extent Feasible” Director’s Rule that may prevent this technology from being implemented on the project site.

Technology Description
Trees are a landscape amenity with flow control benefits that can be applied in most settings.

Design Requirements (Manual Volume 3, Section 4.4.2)

	Review Item
	1. Retained Trees
FC	<ul style="list-style-type: none"> ▪ Trees for retention are clearly marked on drawings and are located on the development site and within 20 feet of ground level new and/or replaced impervious surfaces. SFR only – the higher credit is also given for trees that are 20 feet or less from existing ground level impervious surface in the ROW.
	<ul style="list-style-type: none"> ▪ Tree species are clearly identified
	<ul style="list-style-type: none"> ▪ Trunk diameter identified, minimum of 6 inch diameter at breast height
	<ul style="list-style-type: none"> ▪ Canopy area and dripline delineation shown. For clustered trees, overlapping canopies are not double counted
FC	<ul style="list-style-type: none"> ▪ Arborist report provided if impervious surface is proposed within the critical root zone. Critical root zone is defined as the line encircling the base of the tree with half the diameter of the dripline.
	<ul style="list-style-type: none"> ▪ Credit provided based on Table 4.8
	2. Newly Planted Trees
	<ul style="list-style-type: none"> ▪ The following setbacks are met (edge to edge)
FC	<ul style="list-style-type: none"> □ 5 feet from structures
FC	<ul style="list-style-type: none"> □ 5 feet from underground utility lines
FC	<ul style="list-style-type: none"> □ 2 feet from edge of any paved surface
	<ul style="list-style-type: none"> ▪ Tree species clearly identified and meet one of the approved species on the City of Seattle Tree List (http://www.seattle.gov/util/greeninfrastructure)
	<ul style="list-style-type: none"> ▪ Tree size is provided and meets the following criteria: <ul style="list-style-type: none"> □ Deciduous trees – at least 1.5 inches in diameter at 6 inches above ground
	<ul style="list-style-type: none"> ▪ Tree size is appropriate for the proposed location <ul style="list-style-type: none"> □ Evergreen trees – at least 4 feet tall

FC	<ul style="list-style-type: none">▪ Tree location is clearly identified and is on the development and within 20 feet of new and/or replaced ground level impervious surfaces. SFR only – credit is also given for trees that are 20 feet or less from existing ground level impervious surface in the ROW.
	<ul style="list-style-type: none">▪ Credit provided based on Table 4.9

Resources:

- Green Stormwater Infrastructure (GSI) website (specifications, CADD drawings, plant lists, links to other resources)
<http://www.seattle.gov/util/greeninfrastructure>
- Seattle Right-of-Way Improvements Manual
<http://www.seattle.gov/transportation/rowmanual/manual/>
- Stormwater Code, Director’s Rules (Manual and GSI to MEF), Client Assistance Memos (CAMs), GSI and flow control calculators for pre-sized facilities
<http://www.seattle.gov/dpd/Codes/StormwaterCode/Overview/default.asp>