

SECTION 600 LANDSCAPING, PLANTING AND SEEDING

Any landscaping, planting, and seeding not specified in the standards herein shall be in accordance with the City of Puyallup Vegetation Management Standards (VMS), latest edition.

601 Street Trees

601.01 Street Tree Lists

1. Class I – Overhead Utility Street Trees are listed in Section 12.7 of the City of Puyallup Vegetation Management Standards.
2. Class II – Narrow Street Trees are listed in Section 12.8 of the City of Puyallup Vegetation Management Standards.
3. Class III – Medium Street Trees are listed in Section 12.9 of the City of Puyallup Vegetation Management Standards.
4. Class IV – Large Street Trees are listed in Section 12.10 of the City of Puyallup Vegetation Management Standards.
5. Class V – Prohibited Trees are listed in Section 12.11 of the City of Puyallup Vegetation Management Standards.

601.02 Street Tree Installation

1. Street trees shall be installed in accordance with Section 12.4 of the City of Puyallup Vegetation Management Standards and the standards herein.

602 Ground Cover, Amended Soils and Seeding

602.01 Bioretention Plant List

Bioretention plantings shall be in accordance with Appendix 1 of the Low Impact Development Technical Guidance Manual for Puget Sound, latest edition.

602.02 Rain Garden Plant List

Rain Garden plantings shall be in accordance with Appendix A of the Rain Garden Handbook for Western Washington, latest edition.

602.03 Grass Seed Mixes

1. All grass seed mixes shall contain fresh, clean, new crop seed. The required method of seeding shall be by an approved hydroseeding company, which utilizes water as the carrying agent, and maintains continuous agitation through paddle blades. It shall have an operating capacity sufficient to agitate, suspend, and mix into a homogeneous slurry with the specified quantity of seed, water, fertilizer, and mulch. Temporary or permanent irrigation systems may be required by the City Engineer or designee to ensure plant growth, depending upon seed mix and when it is applied.
2. Grass seed mixes shall be composed of the following varieties mixed in the proportions indicated, shall meet the minimum percentages of purity and germination, and shall be applied at the rate of 120 pounds per acre, unless otherwise specified on the approved plans.

<u>Grass Name</u>	<u>Proportion by Weight</u>	<u>% Purity</u>	<u>% Germination</u>
Standard Grass:			
Perennial Ryegrass	50%	98%	95%
Creeping Red Fescue	20%	98%	95%
Chewings Fescue	20%	98%	95%
Kentucky Bluegrass	10%	98%	95%

The Standard Grass mix shall be used for all hydroseed applications, including roadside ditches, unless otherwise specified in the approved plans.

<u>Grass Name</u>	<u>Proportion by Weight</u>	<u>% Purity</u>	<u>% Germination</u>
Turf Grass:			
Perennial Ryegrass	40%	95%	90%
Turf-Type Tall Fescue	20%	95%	90%
Annual Ryegrass	15%	95%	90%
Creeping Red Fescue	10%	95%	90%
Chewings Fescue	10%	95%	90%
Kentucky Bluegrass	5%	95%	90%

The Turf Grass mix shall be used exclusively for seeded areas adjacent to grass lawns and within landscape strips.

<u>Grass Name</u>	<u>Proportion by Weight</u>	<u>% Purity</u>	<u>% Germination</u>
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Bioretention Cells:

Turf-Type Tall Fescue	75-80%	95%	90%
Creeping Red Fescue	10-15%	95%	90%
Redtop	5-10%	95%	90%

The Bioretention Cell mix shall be used in all drainage swales, bio-infiltration swales, bioretention cells or drainage channels as identified on the approved plans, and in all other areas identified as maintained waterway areas, where no other seed mix is specified.

<u>Grass Name</u>	<u>Proportion by Weight</u>	<u>% Purity</u>	<u>% Germination</u>
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Wetland Grass:

Redtop Bentgrass	35%	95%	90%
Meadow Foxtail	35%	95%	90%
Oxeye Daisy	10%	95%	90%
Russian Wildrye	10%	95%	90%
Red Fescue	7%	95%	90%
Blackeyed Susan	2%	95%	90%
Birdsfoot Trefoil	1%	95%	90%

<u>Grass Name</u>	<u>Proportion by Weight</u>	<u>% Purity</u>	<u>% Germination</u>
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Temporary Erosion Control Grass:

Annual or Perennial Ryegrass	40%	98%	90%
Chewings or Red Fescue	40%	98%	90%
White Dutch Clover	10%	98%	90%
Redtop or Colonial Bentgrass	10%	92%	85%

602.04 Bioretention Soil Media (BSM)

1. Bioretention soil media (BSM) is a combination of utility sand and compost, which provides the growing media necessary for treatment of stormwater runoff. Laboratory analysis of a proposed BSM shall be submitted to the city for review prior to installation, and shall show the material meets the following criteria:

- a. The ratio of sand to compost shall be 60-65% to 35-40% by volume.
- b. Organic matter content: 5-8 percent by weight.
- c. The cation exchange capacity of the final mixture shall be greater than five milliequivalents/100g of dry soil.
- d. The sand gradation shall follow:

<u>Sieve Size</u>	<u>Percent Passing</u>
3/8"	100
#4	95-100
#10	75-90
#40	25-40

#100	4-10
#200	2-5

2. The compost shall:

- a. Meet the definition of “composted materials” in WAC 173-350, Section 220.
- b. Originate a minimum of 65 percent by volume from recycled plant waste as defined in WAC 173-350-100 as “Type I Feedstocks,” and a maximum of 35 percent by volume from other approved organic waste as defined in WAC 173-350-100 as “Type III”. Type II and IV feedstocks shall not be used.
- c. Be produced at a composting facility permitted by the Washington State Department of Ecology.
- d. Be stable (low oxygen use and CO₂ generation) and mature (capable of supporting plant growth).
- e. Have a measured pH between 6.0 and 8.5.
- f. Have an organic content of 40 to 60 percent.
- g. Show no visible free water or dust when handling material.
- h. Be tested in accordance with the US Composting Council “Testing Methods for the Examination of Compost and Composting” (TMECC) for:
 - i. Fine compost gradation (TMECC 02.02-B)
 - ii. Inert content less than 1 percent by weight (TMECC 03.08-A)
 - iii. Soluble salt content less than 4.0 mmhos/cm (TMECC 04.10-A)
 - iv. Maturity greater than 80 percent (TMECC 05.05-A)
 - v. Stability of 7 or below (TMECC 05.08-B)
 - vi. Carbon to nitrogen ratio less than 25:1 (TMECC 04.01 and 04.02-D)