

CITY OF KIRKLAND

123 FIFTH AVENUE • KIRKLAND, WASHINGTON 98033-6189 • (425) 587-3800

DEPARTMENT OF PUBLIC WORKS PRE-APPROVED PLANS POLICY

Policy R-10: STREET TREE SELECTION LIST, AND PLANTING AND PRUNING PROCEDURES

Attached is the City of Kirkland's street tree selection list and planting and pruning procedures. This policy shall be adhered to when planting and pruning street trees in the public right-of-way.



STREET TREE SELECTION LIST, AND PLANTING & PRUNING PROCEDURES

PLANT APPLICATION & PLANTING PROCEDURES:

The City of Kirkland requires the planting and maintenance of trees along public streets. An adjacent property owner or tenant may plant a tree in a street-planting strip or near the road subject to City review and approval of the type of tree and the planting location. Contact the Public Works Department at 425-587-3800 for an application. After you receive approval to plant, you will be responsible for properly planting and maintaining the tree. This includes watering during the drier seasons, mulching, and pruning.

When private contractors, developers, and property owners are required to plant street trees as part of a private development or redevelopment project, standards of tree selection, location, planting, and a two-year maintenance bond are required.

Besides selecting a tree for aesthetics, please consider the following before you choose a tree and plant it:

- 1) In most cases, the planting of trees is required only when there is a curbed roadway and a minimum 4.5 foot wide planting strip.
- 2) Trees must be planted to the following standards:
 - a) A minimum of 18 inches back from the face of the curb.
 - b) 5 feet from underground utility lines if possible.
 - c) 20 feet from street lights or other existing trees.
 - d) 30 feet from most street intersections — 50 feet if it has a stop sign.
 - e) **Before planting, you MUST call 72 hours in advance for underground utility locations. This is a toll free call @ 1-800-424-5555.** They will mark your planting strip for the location of your water, electric, gas, and power lines. Knowing these locations in advance may save you time and money by preventing an accident.
 - f) Unless automatic irrigation is provided, trees must be planted between October and February.
 - g) Deciduous trees shall be a minimum 2-inch caliper when planted. Conifer trees shall be a minimum of 6 to 8 feet tall when planted.
 - h) Conifer trees are approved on a case-by-case basis. Safety and impact on maintenance workload will be primary considerations. Conifer trees are never allowed in center medians.
 - i) For newly planted street trees there should be no branching from the trunk below 5 feet from the ground or walk provided that the branches do not encroach into the sidewalk or street.
 - j) Trees that are naturally resistant to pests and produce little fruits are required.

TREE SELECTION:

This document refers to trees on public rights-of-way only.

Refer to the "Recommended Kirkland Street Tree Planting List" below for a listing of trees generally recommended for planting within the planting strip area. This list includes a variety of tree shapes and sizes that can be utilized in a variety of circumstances. Please be aware that this list concentrates on hardy and readily available tree species in the Kirkland area. Also, be aware that current industry belief is that species diversity is a major key to a healthy community/urban forest. It is now recommended that no one species account for more than 8% of the total number of trees in the forest. Therefore, certain trees may not be considered appropriate due to an existing overabundance of that species in a certain part of town. Contact the City of Kirkland Street Department at 425-587-3900 for details. (Specific tree species that are limited in certain neighborhoods include: Norway Maple, Crimson King Maple, Red Maple, Pin Oak, Sweetgum.)

Also please be aware that the list is updated every two years. Tree species may be added or removed from the list as information becomes available. This means that tree species you may see in and around Kirkland are no longer permitted to be planted. Or it may mean that certain species of trees were not readily available at the last review of the list. If there is a particular tree you are interested in that is not on the list, and is also not on the "Trees Not Recommended or Not Permitted along Kirkland Streets" below, you may provide the name of the tree and information for the City to consider with your application. The request and information will be reviewed in relation to the other demands of the right of way. You will then be informed of the decision.

When planting trees under utility lines, choose only small-scale trees that will remain small when mature.

Planting widths: The City Code requires that trees be planted 30 feet on center.

There is no need to meet a City staff representative on site. If you have specific concerns, you may note them on the planting application. Be specific and the City will address your concerns. If you have any questions you may call 425-587-3225 and talk with the permit technician. Staff will consider alternative species proposed on a case-by-case basis. If you are requesting permission to plant a tree species not on this list please provide information about the tree's growth habit, mature size, disease and insect resistance, and any other pertinent information that supports the inclusion of the tree.

PROHIBITED STREET TREES FOR THE CITY OF KIRKLAND:

City of Kirkland Code allows the City to prohibit the following trees from being planted on public rights-of-way. The trees may not be planted closer than the listed minimum planting distance to streets or sewers:

<u>SPECIES:</u>	<u>MINIMUM PLANTING DISTANCE:</u>
<i>Populus trichocarpa</i> , Black Cottonwood	40'
<i>Populus deltoides</i> , Eastern Cottonwood	40'
<i>Populus nigra 'Italica'</i> , Lombardy Poplar	40'
<i>Ailanthus altissima</i> , Tree of Heaven	25'
<i>Salix sp.</i> , Willow trees	25'
<i>Ulmus americana</i> , American Elm	40'
Sycamore	40'
London Plane	40'
<i>Prunus sp.</i> , Cherry, stone fruits, etc (Malus, Crab Apple, WSU approved for western Washington only)	25'
<i>Alnus rubra</i> , Red Alder	25'
<i>Robinia pseudoacacia</i> , Black Locust	30'
<i>Pinus sp.</i> , any Pine trees	30'
Betula jacquemontii or nigra any Birch	Not Allowed

MAINTENANCE RESPONSIBILITY:

Trees planted or growing naturally on City of Kirkland rights-of-way are property of the City and require a permit to prune, cut, or remove. All pruning and trimming is to be done to current standards adopted by the International Society of Arboriculture or the National Arborist Association. Trees are to be pruned 8 feet above sidewalks and 14 feet above roadways. Newly planted street trees may have branching 5 feet from the ground or walk provided that the branches do not encroach into the sidewalk or street. Current City policy is that it is the responsibility of the adjacent property owner to perform maintenance on the trees. Maintenance includes watering, feeding, mulching, and protecting a street tree to help achieve its mature size and full environmental function.

If you have any questions about maintenance or about caring for street trees you can call the Streets Maintenance Division at 425-587-3900.

TREE PRUNING AND REMOVAL:

The pruning and removal of street trees and right-of-way trees is prohibited without a written permit from the City Department of Public Works obtained in advance. To request such a permit, contact Public Works at 425-587-3800 or use the website below:

<http://www.ci.kirkland.wa.us>


Under the **Most Requested** section, choose **Tree Regulations**.

APPROVED STREET TREE LIST

Please note all trees might not be readily available.



Although the trees listed here have been pre-approved, other species may be considered for approval.

Small Columnar Trees






Scientific & Common Name	Mature Height	Spread	OK Under Wires?	Min. Strip Width	Drought Tolerant*	Flower Color	Comments
<i>Malus 'Adirondack'</i> Adirondack Crabapple	20	10	Yes	5		white	Fruiting
<i>Malus 'Red Baron'</i> Red Baron Crabapple	20	15	Yes	5		pink	Fruiting
<i>Prunus serrulata 'Royal Burgandy'</i> Amanogawa Flowering Cherry	20	15	Yes	5		dbl pink	Bronze-purple fall color
<i>Prunus serrulata 'Amanogawa'</i> Amanogawa Japanese Flowering Cherry	25	12	Yes	6		white, pink	
<i>Cornus mas 'Saffron Sentinal'</i> Cornelian Cherry	22	12	Yes	4		yellow	Blooms on bare wood, red fruit, crimson fall color. Native, part shade OK
<i>Malus 'Sentinel'</i> Sentinel Crabapple	20	12	Yes	4		pink	Fruiting

Small Trees

Scientific & Common Name	Mature Height	Spread	Under Wires?	Min. Strip Width	Drought tolerant	Flower color	Comments
<i>Acer buegarianum</i> Trident Maple	30	30	Yes	5		N/A	Shrublike, must be trained to single stem
<i>Acer ginnala</i> Flame Maple	25	20	Yes	5		white	
<i>Acer griseum</i> Paperbark Maple	30	20	Yes	5		N/A	Smooth, peeling, cinnamon colored bark
<i>Acer palmatum</i> Japanese Maple	20	25	Yes	5		N/A	Select larger varieties for street tree plantings
<i>Acer triflorum</i> Three-flower Maple	25	20	Yes	5		N/A	Peeling bark
<i>Amelanchier grandiflora 'Princess Diana'</i> Princess Diana Serviceberry	20	15	Yes	4		white	
<i>Amelanchier x grandiflora 'Autumn Brilliance'</i> Autumn Brilliance Serviceberry	20	15	Yes	4		white	Edible small fruit
<i>Arbutus 'Marina'</i> Strawberry Tree	25	20	Yes	5		pink	Broadleaf evergreen, drops leaves year-round
<i>Asimina triloba</i> Paw Paw	30	20	Yes	5		crimson	Edible 2-4" L fruit can be messy
<i>Carpinus japonica</i> Japanese Hornbeam	20	25	Yes	5		N/A	Wide spreading, slow growing

<i>Cercis canadensis</i> Eastern Redbud	25	30	Yes	5		pink	
<i>Cercis siliquastrum</i> Judas Tree	25	30	Yes	5		pink	Drought resistant

Small Trees continued





Scientific & Common Name	Mature Height	Spread	Under Wires?	Min. Strip Width	Drought tolerant	Flower color	Comments
<i>Maackia amurensis</i> Amur Maackia	30	20	Yes	5		white	
<i>Cornus alternifolia</i> Pagoda Dogwood	25	25	Yes	5		white	Varied fall color
<i>Cornus kousa</i> Kousa Dogwood	20	20	Yes	4		white	Disease resistant, does not do well in dry areas
<i>Cotinus obovatus</i> American Smoke Tree	25	25	Yes	4		pink	
<i>Franklinia alatamaha</i> Franklin Tree	20	20	Yes	5		white	Large white flowers with orange centers, orange-red fall color
<i>Lagerstroemia x 'Tuscarora'</i> Tuscarora Hybrid Crape Myrtle	20	20	Yes	4		pink	Drought resistant
<i>Magnolia 'Elizabeth'</i> Elizabeth Magnolia	30	20	Yes	5		yellow	Broadleaf evergreen, drops leaves year-round
<i>Magnolia 'Galaxy'</i> Galaxy Magnolia	30	15	Yes	5		magenta	
<i>Magnolia x loebneri</i> Loebneri Magnolia	20	20	Yes	5		white	
<i>Malus 'Golden Raindrops'</i> Golden Raindrops Crabapple	20	20	Yes	5		white	Disease resistant, fruiting
<i>Malus 'Donald Wyman'</i> Donald Wyman Crabapple	25	25	Yes	5		white	Disease resistant
<i>Malus 'Lanzam'</i> Lancelot Crabapple	15	15	Yes	4		white	Fruiting
<i>Parrotia persica</i> Persian Parrotia	30	20	No	5		red	Drought tolerant, red, orange, yellow fall colors
<i>Prunus 'Frankthrees'</i> Mt. St. Helens Plum	10	20	Yes	5		pink	Burgundy leaves
<i>Prunus 'Newport'</i> Newport Plum	20	20	Yes	5		pink	Burgundy leaves, edible fruit
<i>Prunus 'Snowgoose'</i> Snow Goose Cherry	20	20	Yes	5		white	Disease resistant
<i>Prunus x yedoensis 'Akebono'</i> Akebono Flowering Cherry	25	25	Yes	6		pink	
<i>Syringa pekinensis and others</i> Tree Lilac	20	20	Yes			lilac, white	
<i>Stewartia monodelpha</i> Orange Bark Stewartia	30	20	Yes	5		white	Brown seed pods
<i>Stewartia psuedocamellia</i> Japanese Stewartia	25	15	Yes	5		white	Avoid hot, dry areas


<i>Styrax obassia</i> Fragrant Styrax	25	20	Yes	5		white	
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Medium Columnar Trees






Scientific & Common Name	Mature Height	Spread	Under Wires?	Strip Width	Drought tolerant	Flower color	Comments
<i>Acer rubrum</i> 'Bowhall' Bowhall Maple	40	20	No	6		N/A	
<i>Carpinus betulus</i> 'Fastigiata' Pyramidal European Hornbeam	40	15	No	5		N/A	Broadens when older
<i>Fagus sylvatica</i> 'Dawyck Purple' Dawyck Purple Beech	40	12	No	6		N/A	Purple foliage, seed pods
<i>Gleditsia tricanthus</i> 'Draves' Streetkeeper Honeylocust	45	20	No	6		N/A	Tight, narrow form
<i>Liriodendron tulipifera</i> 'Fastigiatum' Columnar Tulip Tree	40	10	No	6		white	Does well next to buildings
<i>Malus 'Tschonoskii'</i> Tschonoski Crabapple	30	15	Yes	5		white	Pyramidal, sparse fruit
<i>Oxydendron arboreum</i> Sourwood	35	12	No	5		white	Brilliant fall color
<i>Prunus argentii</i> 'Columnaris' Columnar Sargent Cherry	35	15	No	8		pink	Can suffer from brown rot in spring, great fall color
<i>Prunus x hillieri</i> 'Spire' Spire Cherry	30	10	Yes	6		pink	Can suffer from brown rot in spring

Medium Trees



Scientific & Common Name	Mature Height	Spread	Under Wires?	Strip Width	Drought tolerant	Flower color	Comments
<i>Acer grandidentatum</i> 'Schmidt' Rocky Mountain Glow Maple	25	20	Yes	5		N/A	Red colors in fall
<i>Acer rubrum</i> 'Karpick' Karpick Maple	40	20	No	6		N/A	
<i>Acer truncatum</i> x <i>A. platanoides</i> 'Kiethsform' Norwegian Sunset Maple	35	25	No	5		N/A	Red/orange fall color
<i>Acer truncatum</i> x <i>A. platanoides</i> 'Warrenred' Pacific Sunset Maple	30	25	No	5		N/A	
<i>Betula albosinensis</i> var. <i>septentrionalis</i> Chinese Red Birch	40	35	No	5		N/A	White/pink peeling bark
<i>Carpinus caroliniana</i> American Hornbeam	25	20	Yes	5		N/A	Brilliant fall color
<i>Cladrastis kentukea</i> Yellowwood	40	40	No	5		white	flower clusters in spring, bright yellow fall color
<i>Cornus controversa</i> 'June Snow' Giant Dogwood	40	30	No	5		white	

<i>Cornus 'Eddie's White Wonder'</i> Eddie's White Wonder Dogwood	30	20	Yes	5		white	
Thornless Cockspur Hawthorn	25	30	Yes	5		white	Red fruit
<i>Crataegus phaenopyrum</i> Washington Hawthorn	25	20	Yes	5		white	Do not plant in high use areas, large thorns


Medium Trees continued

Scientific & Common Name	Mature Height	Spread	Under Wires?	Strip Width	Drought tolerant	Flower color	Comments
<i>Crataegus x lavallei</i> Lavalle Hawthorn	25	20	Yes	5		white	Thorns when trees are young, fruit stays on tree
<i>Davidia involucrata</i> Dove Tree	40	30	No	5		white	Large flowers in May
<i>Eucommia ulmoides</i> Hardy Rubber Tree	50	40	No	6		N/A	
<i>Fagus sylvatica 'Rohanii'</i> Purple Oak Leaf Beech	50	30	No	6		N/A	Purple leaves
<i>Halesia monticola</i> Carolina Silverbell	35	30	No	5		white	Fruit/seeds can be messy
<i>Koelreuteria paniculata</i> Goldenrain Tree	30	30	Yes	5		yellow	Slow growing
<i>Magnolia denudata</i> Yulan Magnolia	40	40	No	5		white	Fragrant flowers in spring
<i>Magnolia grandiflora 'Victoria'</i> Victoria Evergreen Magnolia	25	20	Yes	5		white	Evergreen, drops leaves year-round
<i>Magnolia kobus</i> Kobus Magnolia	30	20	Yes	5		white	Flowers don't emerge until tree is mature
<i>Ostrya virginiana</i> Ironwood, American hophornbeam	40	25	No	5		N/A	Slow growing
<i>Phellodendron amurense 'Macho'</i> Macho Cork Tree	40	40	No	5		N/A	
<i>Prunus cerasifera 'Krauter Vesuvius'</i> Vesuvius Flowering Plum	30	20	Yes	5		pink	Drought tolerant, fruitless
<i>Pterostyrax hispida</i> Fragrant Epaulette Tree	40	30	No	5		white	
<i>Quercus ilex</i> Holly Oak	40	30	No	5		N/A	Broadleaf evergreen, drops leaves year-round
<i>Styrax japonica</i> Japanese Snowbell	25	25	Yes	5		white	
<i>Tilia cordata</i> Little-leaf Linden	30	20	Yes	5		N/A	
<i>Tilia cordata 'Chancellor'</i> Chancellor Linden	35	20	No	6		N/A	
<i>Ulmus parvifolia 'Emer I'</i> Athena Classic Elm	30	35	No	5		N/A	High resistance to Dutch Elm disease

Medium/Large Trees





Scientific & Common Name	Mature Height	Spread	Under Wires?	Strip Width	Drought tolerant	Flower color	Comments
<i>Acer campestre</i> Hedge Maple	50	30	No	5		N/A	Don't let the name fool you, this can get to be a large tree
<i>Acer campestre</i> 'Evelyn' Queen Elizabeth Hedge Maple	40	30	No	5		N/A	Upright branching
<i>Acer freemanii</i> 'Autumn Blaze' Autumn Blaze Maple	50	40	No	6		N/A	Cross between silver and red maple - good fall color
<i>Acer miyabei</i> 'Morton' State Street Maple	40	30	No	6		N/A	
<i>Aesculus x carnea</i> 'Briotii' Red Horsechestnut	30	35	No	6		red	Drought and heat resistant, can be invasive
<i>Ginkgo biloba</i> 'Autumn Gold' Autumn Gold Ginkgo	45	35	No	6		N/A	
<i>Liquidambar styraciflua</i> 'Morraine' Morraine Sweetgum	40	25	No	8		N/A	More compact sweetgum
<i>Nothofagus antarctica</i> Southern Beech	50	35	No	5		N/A	Needs irrigation
<i>Tilia americana</i> 'Redmond' Redmond Linden	50	30	No	8		N/A	Pyramidal, needs lots of water when young
<i>Tilia cordata</i> 'Greenspire' Greenspire Linden	40	30	No	6		N/A	Pyramidal, often times has structural issues because of tight branching
<i>Ulmus parvifolia</i> 'Emer ii' Elm	Allee 45	35	No	5		N/A	Resistant to Dutch Elm disease, good fall color

Large Columnar Trees

Scientific & Common Name	Mature Height	Spread	Under Wires?	Min. Strip Width	Drought tolerant	Flower color	Comments
<i>Acer nigrum</i> 'Green Column' Green Column Black Sugar Maple	50	10	No	6		N/A	Does well close to buildings
<i>Ginkgo biloba</i> 'Princeton Sentry' Princeton Sentry Ginkgo	40	15	No	6		N/A	Narrow growth patten
<i>Nyssa sylvatica</i> Tupelo	60	20	No	6		N/A	Scarlet fall color
<i>Quercus x 'Crimschmidt'</i> Crimson Spire Oak	45	15	No	6		N/A	
<i>Quercus frainetto</i> Italian Oak	50	30	No	6		N/A	Drought resistant

<i>Quercus robur</i> 'Fastigiata' Skyrocket Oak	40	15	No	6		N/A	Dead/brown leaves can hang on tree through winter
<i>Taxodium distichum</i> 'Mickelson' Shawnee Brave bald Cypress	55	20	No	6		N/A	Deciduous conifer


Large Trees

Scientific & Common Name	Mature Height	Spread	Under Wires?	Strip Width	Drought tolerant	Flower color	Comments
<i>Acer saccharum</i> 'Bonfire' Bonfire Sugar Maple	50	40	No	6		N/A	Fastest growing sugar maple
<i>Acer saccharum</i> 'Commemoration' Commemoration Sugar Maple	50	35	No	6		N/A	
<i>Acer saccharinum</i> 'Green Mountain' Green Mountain Sugar Maple	45	35	No	6		N/A	Reliable fall color
<i>Acer saccharum</i> 'Legacy' Legacy Sugar Maple	50	35	No	6		N/A	
<i>Aesculus flava</i> Yellow Buckeye	60	40	No	6		yellow	
<i>Catalpa speciosa</i> Northern Catalpa	50	35	No			white	Big leaves, big tree. Clusters of flowers speckled yellow/purple up close
<i>Cercidiphyllum japonicum</i> Katsura Tree	40	40	No	6		N/A	Requires lots of water when young
<i>Ginkgo biloba</i> 'Magyar' Magyar Ginkgo	50	25	No	6		N/A	More upright and columnar than "Autumn Gold"
<i>Gymnocladus dioica</i> 'Espresso' Espresso Kentucky Coffee	50	35	No	6		N/A	
<i>Liquidambar styraciflua</i> 'Rotundiloba' Rotundiloba Sweetgum	45	25	No	6		N/A	Fruitless
<i>Liriodendron tulipifera</i> Tulip Tree	60	30	No	6		yellow	Very fast growing, can get large in open areas
<i>Metasequoia glyptostroboides</i> Dawn Redwood	70	25	No	6		N/A	Fast growing, deciduous conifer, golden needles in fall
<i>Plantanus x acerifolia</i> London Planetree	75	60	No	6		N/A	More anthracnose resistant, large tree that needs space
<i>Quercus bicolor</i> Swamp White Oak	60	40	No	6		N/A	Shaggy, peeling bark. Heat/drought tolerant, tolerates poorly-draining soil.
<i>Quercus coccinea</i> Scarlet Oak	60	40	No	6		N/A	Brilliant fall color
<i>Quercus garryana</i> Oregon Oak	50	40	No	8		N/A	PNW native
<i>Quercus imbricaria</i> Shingle Oak	60	50	No	6		N/A	
<i>Quercus muehlenbergii</i> Chestnut Oak	60	50	No	6		N/A	

<i>Quercus robur</i> English Oak	60	40	No	8		N/A	Can be invasive due to acorn germination. Dead leaves can be persistent through winter
<i>Quercus rubra</i> Red Oak	60	45	No	8		N/A	Fast growing, large tree that needs space, acorns
<i>Quercus velutina</i> Black Oak	60	50	No	8		N/A	More drought tolerant than Red Oak, acorns
<i>Taxodium distichum</i> Bald Cypress	55	35	No	8		N/A	Deciduous conifer, columnar when young and broadly spreading when mature

Large Trees

Scientific & Common Name	Mature Height	Spread	Under Wires?	Strip Width	Drought tolerant	Flower color	Comments
<i>Ulmus 'Homestead'</i> or ' <i>Emerald Sunshine'</i> Homestead Elm	60	35	No	6		N/A	Resistant to Dutch Elm disease
<i>Ulmus 'Frontier'</i> Frontier Elm	50	35	No	6		N/A	Resistant to Dutch Elm disease
<i>Zelkova serrata 'Green Vase'</i> Green Vase Zelkova	45	40	No	6		N/A	Dark green leaves turn orange, red and purple in the fall
<i>Zelkova serrata 'Village Green'</i> Village Green Zelkova	40	40	No	6		N/A	

 *Drought tolerant once established (water for the first 2 summers).