

CORPORATION OF THE CITY OF NEW WESTMINSTER

BYLAW NO. 7799, 2016

A bylaw to regulate and prohibit the cutting, removal and damage of trees, the issuance of permits and setting of fees, and the requirement for replacement trees and security for their provision and maintenance

WHEREAS the *Community Charter*, S.B.C. 2003, c.26 authorizes a local government to regulate, prohibit, and impose requirements in relation to trees;

NOW THEREFORE the Council of the Corporation of the City of New Westminster in open meeting assembled enacts as follows:

1.0 CITATION

1.1 This bylaw may be cited for all purposes as “Tree Protection and Regulation Bylaw No. 7799, 2016”.

2.0 INTERPRETATION

2.1 In this bylaw:

- (a) **“applicant”** means the person who is applying to the City for a permit to cut or remove a protected tree;
- (b) **“arborist”** means a person who:
 - (i) is certified as an arborist by the International Society of Arboriculture or certified as an arborist technician by the British Columbia Industry Training Authority; and
 - (ii) is certified as a tree risk assessor by the International Society of Arboriculture; and
 - (iii) holds a valid and subsisting business licence from the City or a valid and subsisting intermunicipal business licence from a participating municipality;
- (c) **“arborist report”** means a report prepared by an arborist which:
 - (i) identifies information relevant to the purpose for which the report is to be submitted to the City including, but not limited to, surveyed location, species, size, critical root zone, condition, and risk rating of onsite and offsite protected trees;
 - (ii) provides photographs of protected trees in the context of the site;

- (iii) provides the reasons for any proposed removal of a protected tree;
 - (iv) for protected trees that are part of a stand of trees, comments on the impact of tree removal on the stability of the remaining trees in the stand;
 - (v) for hazardous trees, provides any pruning mitigation options consistent with the latest edition of the American National Standards Institute (ANSI) A300 and the latest edition of the companion publication “Best Management Practices – Tree Pruning”, published by the International Society of Arboriculture, and reports residual risk;
 - (vi) for protected trees other than hazardous trees, describes the recommended tree protection and mitigation measures during site excavation, demolition, construction, or placement of fill and describes the recommended post-development tree maintenance measures; and
 - (vii) includes the arborist’s business licence or intermunicipal business licence number;
- (d) “**base**” means, in relation to a tree’s measurement:
- (i) the top of the root collar; or
 - (ii) the point where the existing grade of the ground comes into contact with a tree’s stump, trunk or trunks,
- whichever elevation is higher;
- (e) “**Bylaw Enforcement Officer**” means any employee of the City serving in the capacity of Bylaw Officer, Building Inspector, Animal Control Officer, Parking Patrol Officer, or City Arborist;
 - (f) “**canopy**” means the extent of the outer leaves or needles of an individual tree or group of trees;
 - (g) “**City**” means the Corporation of the City of New Westminster;
 - (h) “**City Arborist**” means a person employed and designated by the City as the City Arborist, Urban Forester, Arborist Technician, Tree Administrator, Landscape Architect, or Environmental Technician;
 - (i) “**commitment letter**” means a letter to be provided by an applicant pursuant to subsection 5.4 of this bylaw;
 - (j) “**Council**” means the Council of the City;

- (k) “**critical root zone**” means the area of land surrounding the trunk of a tree contained within a circle of radius equal to the DBH of the tree multiplied by 6, or one meter beyond the drip line of the tree, whichever is the greater distance;
- (l) “**crown**” means the entire system of branches, leaves and reproductive structures of a tree extending away from the trunk or main stem(s), measured from the lowest branch;
- (m) “**crown raising**” means to shorten or remove the lower branches of a tree;
- (n) “**cut**” or “**cutting**” means to cut down a tree and shall include to pull up, push or pull over, or otherwise fall a tree;
- (o) “**damage**”, “**damaged**”, or “**damaging**” means any action which will cause a tree to die or to decline in health, including, but not limited to girdling, ringing, removing bark from a tree, denting, gouging, puncturing or damaging a tree trunk, poisoning, burning, undermining structural roots within the critical root zone of a tree, depositing or removing soil from the base of a tree, excessive pruning, excessive crown raising, topping, or pruning in a manner not in accordance with the most recent edition of the American National Standards Institute Publication (ANSI) A300 and the most recent edition of the companion publication “Best Management Practices – Tree Pruning”, published by the International Society of Arboriculture;
- (p) “**DBH**” means the diameter of the trunk of a tree at 1.3 metres above the base of a tree. For multi-stemmed trees, each trunk shall be measured 1.3 metres above the highest point of the natural grade of the ground measured from grade and the DBH of the tree shall be calculated as the square root of the sum of all squared stem DBHs rounded to the nearest centimetre (e.g. $\sqrt{[(12\text{cm})^2 + (14\text{ cm})^2 + (17\text{ cm})^2]} = \sqrt{629} = 25\text{ cm}$);
- (q) “**Director**” means the Director of Parks, Culture and Recreation as represented by the employee of the City serving in that capacity from time to time and includes a person acting or delegated to act in that capacity;
- (r) “**drip line**” means the outermost perimeter of the canopy of a tree;
- (s) “**engineer**” means a person registered or licensed as a professional engineer pursuant to the provisions of the *Engineers and Geoscientists Act*, R.S.B.C. 1996, c.116, as amended;
- (t) “**hazardous tree**” means a tree identified in writing by an arborist as having defects sufficient to significantly increase the likelihood that all or part of the tree will fall, resulting in a risk of personal injury or property damage or loss;
- (u) “**hedge**” means five or more trees or shrubs less than 5 metres high, and planted less than 1.25 metres apart;

- (v) “**highway**” includes a public street, road, trail, lane, bridge, viaduct, walkway, and any other way open to public use, and excludes a Provincial highway;
- (w) “**landscape architect**” means a landscape architect registered with the British Columbia Society of Landscape Architects;
- (x) “**live crown ratio**” means the ratio of the height of the crown containing live foliage to the overall height of the tree;
- (y) “**lot**” means land designated as a separate and distinct parcel on a legally recorded subdivision plan or description filed in the records of the Land Title Office;
- (z) “**natural causes**” means death or decline in health of a tree as a result of natural diseases, pests, climatic, hydrological and geotechnical conditions, inherent structural defects, or aging;
- (aa) “**owner**” includes a registered owner, an owner under agreement, an occupier of Crown lands, the City if the subject tree is on City-owned land or a highway, an owner of a strata lot if the subject tree is within the boundaries of the strata lot, a strata corporation if the subject tree is within the boundaries of the common property, and a cooperative association;
- (bb) “**permit**” means a permit issued by the Director under authority of this bylaw to cut or remove one or more protected trees;
- (cc) “**protected tree**” means:
 - (i) a tree or shrub of any size located on City-owned or occupied land;
 - (ii) a tree of any species, except when planted as a hedge, that has a DBH of 20 centimetres or greater, or has a combined DBH of its two largest trunks or stems of 20 centimetres or greater;
 - (iii) a retained tree identified on a tree protection plan;
 - (iv) a replacement tree identified on a tree replacement plan;
 - (v) a specimen tree;
 - (vi) a tree with evidence of nesting by a bird, as “bird” is defined in the *Wildlife Act*, RSBC 1996, c 488;
- (dd) “**pruning**” means the cutting of twigs, branches or roots in accordance with the most recent edition of the American National Standards Institute (ANSI) A300 and the latest edition of the companion publication “Best Management Practices – Tree Pruning”, published by the International Society of Arboriculture;

- (ee) **“remove”, “removed”, “removal”, or “removing”** means to cut a tree and remove it from the lot where it exists;
- (ff) **“replacement tree”** means a tree required to be planted in accordance with this bylaw to replace a tree that is cut, removed, or damaged, as shown on a tree replacement plan;
- (gg) **“retained tree”** means a protected tree that is not proposed to be cut;
- (hh) **“root collar”** means the upper-most portion of the root system of a tree where the major roots join together at the base of the trunk;
- (ii) **“shared tree”** means a tree with any part of its trunk or trunk flare crossing a property line, including where the adjacent property is a highway, park, or other City-owned property;
- (jj) **“shrub”** means a woody plant with one or more perennial stems and reaching a height at maturity of less than 4.5 metres;
- (kk) **“site plan”** means a drawing of the lot or lots illustrating property lines, watercourses, existing and proposed buildings and structures, and the locations, species (deciduous or coniferous), and estimated size (DBH and canopy) of all protected trees proposed to be cut and all retained trees;
- (ll) **“specimen tree”** means a large and mature deciduous or coniferous tree with a DBH greater than 60 centimetres;
- (mm) **“structural root”** means the large, woody, roots of a tree that anchor and support the trunk and crown of that tree, characterized by secondary thickening and diameter greater than 2 centimetres, and giving form to the root system and functioning in anchorage and support;
- (nn) **“topping” or “topped”** means the removal of significant portions of a tree crown by cutting branches to stubs or to the trunk, or cutting the main leader or branches, and includes re-topping of previously topped trees;
- (oo) **“tree”** means a self-supporting, perennial, woody plant that has a trunk or stem and a root system;
- (pp) **“tree protection barrier”** means a barrier constructed around a tree in accordance with Schedule B of this bylaw to protect the tree from damage during site work or construction;
- (qq) **“tree protection plan”** means a plan prepared by an arborist or landscape architect in accordance with sound arboricultural practice that illustrates the location of protected trees in relation to the property lines of a lot and protected trees on adjacent lots that are within 4 metres of the property lines of the subject lot,

including the size of such protected trees, and identifies the location of proposed tree protection zones for each retained tree;

- (rr) **“tree protection zone”** means the area inside a tree protection barrier;
- (ss) **“tree replacement plan”** means a plan prepared by an arborist or landscape architect in accordance with sound arboricultural practice that identifies the number, location, species and size of replacement trees to be planted in accordance with section 7.0 of this bylaw;
- (tt) **“tree survey”** means a survey plan prepared by a person registered as a British Columbia land surveyor that illustrates the location of protected trees in relation to the property lines of a lot, and includes any other information required by the Director for the purpose of assessing a permit application;
- (uu) **“trunk flare”** means the area at the base of a tree that swells and merges with the roots of that tree; and
- (vv) **“Zoning Bylaw”** means Zoning Bylaw No. 6680, 2001, as amended or replaced from time to time.

3.0 APPLICATION

- 3.1 This bylaw applies to all protected trees within the City except as provided in subsection 3.2.
- 3.2 This bylaw does not apply to:
 - (a) protected trees that are cut, removed, or damaged pursuant to the *Railway Safety Act*, S.B.C. 2004, c.8, the *Hydro and Power Authority Act*, R.S.B.C. 1996, c.212, or the *Oil and Gas Activities Act*, S.B.C. 2008, c. 36; and
 - (b) protected trees on City-owned property or highways that are cut or removed by the City or its authorized agents in accordance with approved City operations.

4.0 PROHIBITIONS

- 4.1 No person shall cut, remove or damage any protected tree, or cause or allow any protected tree to be cut, removed or damaged, except where permitted by and in accordance with the terms of this bylaw.
- 4.2 No person shall fail to comply with the terms and conditions of a permit issued under this bylaw.
- 4.3 No person shall remove, conceal, or otherwise interfere with a posted Stop Work Order issued under this bylaw.

4.4 No person shall alter, falsify, or otherwise misrepresent any information on or for a permit or application.

4.5 No person shall fasten any sign, notice, or other object to, around, or through any tree or shrub of any size located on City-owned or occupied land, including any tree or shrub located on a highway.

5.0 PERMITS

5.1 A person wishing to cut or remove a protected tree shall apply to the Director for a permit to cut or remove the protected tree.

5.2 An application for a permit must be made in the form prescribed for that purpose from time to time by the Director, and must include all of the following:

- (a) a non-refundable application fee in the amount set out in Schedule A;
- (b) the address and legal description for the lot or lots on which the protected trees proposed to be cut or removed are located;
- (c) unless the application is for the removal of a hazardous tree and no other tree, title searches for the lot or lots on which the protected trees proposed to be cut or removed are located, obtained from the Land Title Office within the previous 72 hours, along with copies of any covenants or similar agreements registered against title to the lot and relating to the use of the lot or the cutting or removal of trees on the lot;
- (d) if the applicant is not the owner of the lot on which the protected tree proposed to be cut or removed is located, the written consent of all owners of that lot;
- (e) a statement of purpose and rationale for the proposed tree cutting or removal;
- (f) a site plan or a tree survey if required by the Director;
- (g) details of the scale, methods, and timing of the proposed cutting or removal of protected trees;
- (h) proposed methods to access the site, control erosion, manage runoff, and protect retained trees;
- (i) except as provided for under subsection 5.4, an arborist report from an arborist retained by the applicant, certifying that the protected tree(s) proposed to be cut or removed meet one or more of the conditions set out in subsection 5.3(a), and specifying any conditions under which the proposed cutting or removal of a protected tree may take place. In assessing the conditions under which the proposed cutting or removal of a protected tree may take place, the arborist report shall consider and recommend the appropriate extent, timing, and phasing of

cutting and removal to address public health and safety concerns, minimize impacts to adjacent properties, protect retained trees, and protect other environmental features or functions;

- (j) except as provided under subsection 5.4, a tree protection plan;
 - (k) except as provided under subsection 5.4, a tree replacement plan;
 - (l) where the protected tree is a shared tree, a letter from the owners of the adjacent lot consenting to the cutting or removal of the shared tree, together with current contact information for each of those owners;
 - (m) for those properties identified in the City's Official Community Plan as being located in a development permit area established for the purpose of protecting development from hazardous conditions, a report from an engineer assessing issues relating to slope stability, flooding, and erosion on the lot, certifying that the proposed cutting or removal of the protected tree(s) will not destabilize slopes or cause flooding or erosion, and specifying any conditions under which the proposed cutting or removal of the protected tree(s) may take place, including the appropriate extent, timing, and phasing of the cutting or removal to address public health and safety concerns, minimize impacts to adjacent properties, protect retained trees, and protect other environmental features or functions.
- 5.3 The Director will issue a permit in the form prescribed for that purpose from time to time if:
- (a) the Director is satisfied that one or more of the following conditions exists:
 - (i) the protected tree is a hazardous tree;
 - (ii) the protected tree is located within the footprint of a proposed building or structure, underground service, driveway, or off-street parking area that would be permitted under the City's Zoning Bylaw, or that is required pursuant to any other City bylaw, and that could not be modified or relocated on the lot so as to retain the protected tree, as determined by the Director;
 - (iii) the roots of the protected tree are impairing, interfering with, or present a risk or hazard to the operation of sewers, drains, water lines, septic fields, electrical lines, poles, or other similar equipment and appurtenances, as determined and confirmed in writing by an engineer retained by the applicant, and the impairment, interference, or risk cannot be reduced or removed in any way other than cutting or removal of the protected tree, as determined and confirmed in writing by the applicant's arborist;
 - (b) the Director has approved an arborist report, a tree protection plan, and a tree

replacement plan, if required, and security has been provided in accordance with section 9.0;

- (c) the applicant has paid the permit fee in the amount set out in Schedule A; and
 - (d) all other conditions of this bylaw have been met.
- 5.4 Notwithstanding subsections 5.2(i), (j) and (k), the Director may waive the requirement for an arborist report, a tree protection plan, and a tree replacement plan where the owner has otherwise demonstrated to the satisfaction of the Director, through photographs or other documentation, that the protected tree is hazardous, dead, damaged, diseased, or in health decline beyond expectation of recovery, and the owner has provided a commitment letter, in the form prescribed for that purpose from time to time by the Director, agreeing to plant replacement trees in accordance with subsections 7.2 and 7.4 of this bylaw, and has provided security in accordance with section 9.0.
- 5.5 Where an applicant wishes to cut or remove a protected tree and transplant it to another location, either on the same lot or on another lot within the City, the arborist report required pursuant to subsection 5.2(i) must include the proposed methodology for safely transplanting the tree and the tree replacement plan required pursuant to subsection 5.2(k) must show the proposed new location for the protected tree. Protected trees shall be transplanted, where possible, on the same lot, to the extent that the lot will accommodate the tree in another location in accordance with sound arboricultural practice. Where the lot will not accommodate the tree in another location, a protected tree may be transplanted to another lot within the City. The security requirements for replacement trees shall apply to transplanted trees in accordance with section 9.0 and the permit fee for transplanting a protected tree shall be as set out in Schedule A.
- 5.6 In the event that a protected tree is in imminent danger of falling and injuring persons or property due to natural causes, and it is not possible to obtain a permit prior to the tree falling, the owner may cut the tree or have it cut, but shall report the cutting of the tree to the Director within the next business day along with a photograph of the tree prior to such cutting. The owner shall not remove the tree from the lot until the City has attended at the site and has confirmed that the tree was in imminent danger of falling and injuring persons or property. Trees that are cut pursuant to this section must be replaced in accordance with subsections 7.2 and 7.4, security for which must be provided in accordance with the security requirements for replacement trees set out in section 9.0. If the City determines that the tree was not in imminent danger of falling, or was in imminent danger of falling due to reasons other than natural causes, the owner may be subject to the offences and penalties in section 11.0.
- 5.7 A permit is not required for the pruning of a protected tree so long as pruning is carried out in accordance with sound arboricultural practice and the American National Standards Institute (ANSI) A300 and the latest edition of the companion publication “Best Management Practices – Tree Pruning”, published by the International Society of Arboriculture. Pruning shall not include:

- (a) crown raising to the extent that the live crown ratio is less than 50%;
 - (b) the removal of more than 25% of the crown in a single season;
 - (c) topping; or
 - (d) pruning or removal of a structural root within the critical root zone of a protected tree.
- 5.8 Notwithstanding any provision of this bylaw, the Director may refuse to issue a permit if the issuance of that permit would be contrary to a covenant or similar agreement registered against title to the lot in the Land Title Office.
- 5.9 For the purposes of this bylaw, an arborist report will only be accepted by the City within 12 months of the date of issuance of the arborist report.
- 5.10 A permit issued under this bylaw is non-transferable.
- 5.11 Every permit shall expire 6 months from the date of issue, after which a time a new application must be made for any cutting or removal of a protected tree.

6.0 PERMIT CONDITIONS

- 6.1 Every cutting or removal of a protected tree shall comply with, and every permit issued under this bylaw is subject to, the observance or fulfilment of the following requirements, restrictions and regulations, to the satisfaction and approval of the Director:
- (a) each protected tree to be cut or removed shall be clearly identified with a mark of paint;
 - (b) public notice of a permit, in the form prescribed for that purpose by the Director, shall be posted on the lot for which the permit has been issued, in a location visible to the public and facing the street, prior to the commencement of any cutting or removal of a protected tree, which notice shall remain posted on the lot until the completion of all work related to the cutting or removal of protected trees on that lot;
 - (c) a tree protection barrier shall be placed around the critical root zone of all retained trees identified in the tree protection plan, in such manner to ensure that the trunk, branches and root structure are not damaged by the cutting or removal operations, in accordance with Schedule B and the approved tree protection plan. The tree protection barrier shall be installed and approved by the applicant's arborist and confirmed by the applicant's arborist in writing, with supporting photographs. The tree protection barrier shall remain intact for the entire duration of the tree cutting and removal and shall remain intact for any construction, demolition, or fill site throughout the entire period of construction, demolition, or fill;

- (d) precautions shall be taken to ensure that retained trees are not damaged by the cutting or removal operations;
 - (e) tree parts and woodwaste shall be properly disposed of by chipping or removal from the site;
 - (f) all watercourses, waterworks, ditches, drains, sewers, or other established drainage facilities shall be kept free of all woodwaste arising from or caused by the cutting or removal of a protected tree;
 - (g) fencing shall be installed and other protective measures shall be taken during the cutting or removal of a protected tree in order to protect the public from all hazards or potential hazards arising from or caused by the cutting or removal operations; and
 - (h) replacement trees shall be planted within 6 months following issuance of a permit, unless otherwise specified by the Director, and in accordance with the approved tree replacement plan or commitment letter, as applicable.
- 6.2 In addition to the conditions set out herein, the Director may impose conditions dealing with the extent, timing and phasing of tree cutting, removal and replacement if such conditions are considered necessary to address public health and safety issues, minimize impacts to adjacent properties, or protect other environmental features or functions.

7.0 REPLACEMENT TREES

- 7.1 Replacement trees shall be required in accordance with this bylaw for each lot from which any protected tree is cut, removed, or damaged.
- 7.2 Where the only protected trees to be cut or removed from a lot are hazardous trees, the number of replacement trees required shall be 1 replacement tree for each 1 hazardous tree that is cut or removed. In all other cases, the number of replacement trees required shall be 2 replacement trees for each 1 protected tree that is cut, removed or damaged.
- 7.3 Except as provided in subsection 7.4, replacement trees must be of a size, species and location as recommended in the tree replacement plan, and replacement trees shall be planted under the direction and supervision of an arborist or landscape architect retained by the applicant, and in accordance with the latest edition of the American National Standards Institute (ANSI) A300, and in accordance with the approved tree replacement plan and all terms and conditions of the permit. Upon completion of a tree replacement, the applicant must provide the Director with written confirmation from the applicant's arborist or landscape architect, in the form prescribed for that purpose by the Director, that the replacement tree has been planted in accordance with this bylaw.
- 7.4 Where the Director has waived the requirement for a tree replacement plan pursuant to subsection 5.4, replacement trees must be of a size and species as listed in Schedule C and

must be planted in a location satisfactory to the Director. Replacement trees must be planted in accordance with sound arboricultural practice and in accordance with the approved commitment letter and all terms and conditions of the permit. Upon completion of a tree replacement pursuant to this subsection, the owner must provide the Director with written notice and one or more photographs confirming that the replacement tree has been planted in accordance with this bylaw.

- 7.5 No less than 1 replacement tree shall be planted on the same lot as the trees that are cut or removed. Additional required replacement trees shall be planted, where possible, on the same lot as the trees that are cut or removed, to the extent that the lot will accommodate such additional replacement trees in accordance with sound arboricultural practice. If, in the opinion of the applicant's arborist, the lot cannot accommodate some or all of the additional required replacement trees, the owner shall be required to pay cash-in-lieu to the City in the amount specified in Schedule A.
- 7.6 Replacement trees shall be maintained for a period of 1 year or a longer period of time if a longer period is recommended as part of the approved tree replacement plan, in accordance with sound arboricultural practice and the tree replacement plan, if applicable.
- 7.7 If any replacement tree does not survive for 1 year or a longer period of time if a longer period of time is recommended as part of the approved tree replacement plan, the owner shall, within 6 months, replace the tree with a replacement tree that is of a size and species listed in Schedule C, in a location satisfactory to the Director, and the owner shall thereafter maintain the replacement tree in accordance with subsection 7.6.

8.0 TREE PROTECTION DURING CONSTRUCTION AND DEMOLITION

- 8.1 Where the drip line of a protected tree on a lot is within 4 metres from any excavation, demolition, construction, fill or engineering works proposed on that lot, the owner shall install a tree protection barrier around the critical root zone of the protected tree, in accordance with Schedule B.
- 8.2 Where the drip line of a protected tree on an adjacent lot is within 4 metres from any excavation, demolition, construction, fill or engineering works proposed on a lot, the applicant shall, with the consent of the owner of the adjacent lot, install a tree protection barrier around the critical root zone of the protected tree on the adjacent lot, in accordance with Schedule B. In the event that the applicant cannot obtain such consent from the owner of the adjacent lot, the applicant shall install a tree protection barrier around the tree to the property line of the subject lot.
- 8.3 No demolition permit, building permit, or fill permit shall be issued before the tree protection barrier has been installed and approved in writing by the applicant's arborist, with supporting photographs, delivered to the City.
- 8.4 A tree protection barrier must remain in place and in accordance with Schedule B throughout the entire period of any excavation, construction, demolition, or fill activity on

the site, until the removal of the tree protection barrier is approved by the Director.

- 8.5 Site disturbance inside a tree protection zone is prohibited, including but not limited to site grading, deposition or storage of soil or any other material, disposal of any toxic material, access by any vehicular traffic or heavy equipment, use of the area as an amenity space during construction, or use of tree trunks as a winch support, anchorage, or temporary power pole.
- 8.6 Notwithstanding subsections 8.4 and 8.5, a tree protection barrier may be temporarily removed or relocated in order to allow work to be done within or near a critical root zone if the applicant has, prior to such removal or relocation, provided the City with:
- (a) a report from the applicant's arborist, satisfactory to the Director, setting out the reasons and proposed duration for such removal or relocation; and
 - (b) a signed letter of undertaking from the applicant's arborist, in the form prescribed for that purpose from time to time by the Director, confirming that the applicant's arborist will be onsite and supervising all such work,

and thereafter the applicant shall only remove or relocate the tree protection barrier in accordance with the approved report and at those time during which the applicant's arborist is onsite and supervising all such work.

9.0 SECURITIES

- 9.1 Where replacement trees or retention and protection of retained trees are required as a condition of a permit or as part of a penalty for cutting, removing or damaging protected trees without a permit, or cutting, removing or damaging protected trees in excess of the number allowed by a permit, or under subsection 5.6, the owner shall provide to the City a security deposit in the form of cash or letter of credit in the amount specified in Schedule A, for the period and on the terms specified in this bylaw. No interest shall be paid by the City on security deposits.
- 9.2 Any letter of credit required to be provided under this bylaw shall be a clean, unconditional and irrevocable letter of credit drawn from a Canadian financial institution acceptable to the City and in a form acceptable to the City. If, for any reason, the irrevocable letter of credit ceases to be effective security or becomes unenforceable so as to remove or reduce its purpose as full security for the due and proper performance of the requirements of this bylaw, the owner shall replace it with a further letter of credit acceptable with the City no less than 21 days prior to the expiry of the letter of credit then held by the City. If the owner fails to do so, the City may draw down on the current letter of credit without notice or restriction and hold the cash as security.
- 9.3 If at any time an owner fails to comply with the provisions of this bylaw relating to planting and maintenance of replacement trees or retention and protection of retained trees, the City may by its employees or contractors enter upon the lands that are the subject of the

requirements to plant and maintain replacement trees or retain and protect retained trees and fulfill the requirements of the owner and, for such purposes, the City may draw upon the securities provided and expend the funds to cover all costs and expenses of so doing.

- 9.4 The security provided to the City for replacement trees under subsection 9.1 will be released upon the applicant's arborist or landscape architect certifying, in a form prescribed for that purpose by the Director, that the replacement trees have been planted and maintained for a period of 12 months or a longer period of time if a longer period is recommended as part of the approved tree replacement plan. Where the Director has waived the requirement for a tree replacement plan pursuant to subsection 5.4, security will be released upon written confirmation from the applicant that the replacement tree has been planted and maintained for a period of 12 months in accordance with this bylaw, together with recent photographs of the replacement tree, all to the satisfaction of the Director.
- 9.5 The amount of security required for protected trees and specimen trees proposed to be retained and protected as a requirement of a subdivision application, a development permit, a development variance permit, a building permit, a demolition permit, a fill permit, or a permit under this bylaw shall be as set out in Schedule A.
- 9.6 The security provided to the City under subsection 9.5 will be held by the City until final building inspection has been issued to ensure that the retained trees are not damaged, properly protected, and maintained in accordance with this bylaw and the applicable permit. The security will be released upon receipt by the City of a letter from the applicant's arborist confirming that the retained trees have not been damaged and have been properly protected and maintained in accordance with this bylaw and the applicable permit.

10.0 INSPECTIONS AND ENFORCEMENT

- 10.1 The Director, the City Arborist, Bylaw Enforcement Officers, and employees and contractors of the City are authorized to enter at all reasonable times without the consent of the owner on any lot that is subject to this bylaw to ascertain whether the regulations, prohibitions, and requirements of this bylaw or any permit are being met, or to assess or inspect any protected tree or remains of any protected tree on the lot.
- 10.2 No person shall prevent or obstruct or attempt to prevent or obstruct the Director, the City Arborist, a Bylaw Enforcement Officer, or any employee or contractor of the City from:
- (a) entering upon lands as authorized by subsections 9.3 and 10.1; or
 - (b) carrying out their duties under this bylaw.
- 10.3 The Bylaw Enforcement Officer may issue a Stop Work Order if any protected tree is being cut without a permit or contrary to a permit or this bylaw, or if any protected tree is being damaged in contravention of this bylaw. Upon receipt of a Stop Work Order, the owner

and all persons having notice of the Stop Work Order shall immediately cease the tree cutting or damaging activity and shall not resume unless authorized by the Director.

- 10.4 Where a protected tree has been cut or damaged on a lot in violation of this bylaw, without a permit, or in excess of any permission or in violation of any terms and conditions of a permit, the trunk, limbs, roots and remains of the cut or damaged tree shall not be removed from the lot until an investigation and assessment by the City Arborist is complete and the removal is expressly authorized by the Director.
- 10.5 Without limiting the application of section 11.0, the Director may revoke a permit by providing notice to the owner if any provision of this bylaw or any permit condition is breached or the information on which the issuance of a permit was based is found to be incorrect.
- 10.6 If a permit has been revoked pursuant to subsection 10.5, all tree cutting and removal authorized by that permit must cease until the breach has been remedied or the effect of the incorrect information has been accommodated in a permit's condition and the Director has withdrawn the revocation of the permit in writing.

11.0 OFFENCES AND PENALTIES

11.1 Any person who:

- (a) contravenes or violates any provision of this bylaw or of any permit issued under this bylaw;
- (b) allows any act or thing to be done in contravention or violation of this bylaw or any permit issued under this bylaw; or
- (c) fails or neglects to do anything required to be done by this bylaw or any permit issued under this bylaw,

commits an offence, and where the offence is a continuing one, each day the offence is continued constitutes a separate offence.

- 11.2 Where one or more protected tree is cut, removed or damaged, other than as authorized by this bylaw, or more than one protected tree is not replaced or maintained in accordance with a permit issued under this bylaw, a separate offence is committed in respect of each protected tree.
- 11.3 Upon being convicted of an offence under this bylaw, a person shall be liable to pay a fine of not less than \$1,000 and not more than \$10,000.
- 11.4 In addition to any other penalty which may be imposed under this bylaw, where a person cuts, removes or damages, or causes or allows any protected tree to be cut, removed or damaged in contravention of this bylaw or in violation of any term or condition of a permit issued under this bylaw, that person shall, within 30 days of receiving notice of such

requirement from the Director:

- (a) submit for the Director's approval a tree replacement plan prepared by an arborist or landscape architect retained by the owner in accordance with subsection 5.2(k), specifying the location and species of all replacement trees; and
- (b) plant and maintain on the same lot in accordance with the approved tree replacement plan a minimum of 5 replacement trees for each protected tree unlawfully cut, removed or damaged, and in the event that the owner's arborist or landscape architect determines it is not feasible or practical to plant the replacement trees on the same lot, pay cash-in-lieu to the City in accordance with Schedule A.

11.5 If any owner does not comply with a requirement under section 6.0 or subsection 11.4 of this bylaw to plant and maintain replacement trees, a Bylaw Enforcement Officer may issue a written notice that the City will be entitled to plant and maintain replacement trees at the owner's expense if the owner does not take the required action within 30 days of service of the notice.

11.6 If the owner does not take the action required by a notice issued pursuant to subsection 11.5 within the specified time, the City may:

- (a) by its employees or others, enter onto the property and take the action at the expense of the owner, or take action to plant and maintain an equivalent number of replacement trees on City land at the expense of the owner; and
- (b) if the City holds security for the provision, installation, and maintenance of replacement trees under this bylaw, draw upon the securities provided and expend the funds to cover all costs and expenses of carrying out the work described herein.

12.0 SEVERABILITY

12.1 If any section, subsection, sentence, clause or phrase of this bylaw is for any reason held to be invalid by the decision of a court of competent jurisdiction, such decision shall not affect the validity of the remaining portions of this bylaw.

Adopted January 13, 2016

SCHEDULE A

FEES, PAYMENTS, AND SECURITIES

Application Fee

- | | |
|--------------------|---------|
| 1. Application Fee | \$75.00 |
|--------------------|---------|

Permit Fee

- | | |
|--|---|
| 1. Permit fee (general) | \$75.00 per tree for first 10 trees to be cut or removed, \$150.00 per tree for each additional tree to be cut or removed |
| 2. Permit fee for cutting or removal of hazardous trees only | |
| Permit to cut or remove a single hazardous tree | \$50.00 |
| Permit to cut or remove multiple hazardous trees | \$50.00 for the first tree, plus \$25.00 for each additional tree to be cut |
| 3. Permit fee for transplanting a protected tree | \$0.00 |

Security or Cash-in-Lieu for Replacement Trees

- | | |
|---|-------------|
| 1. Security or cash-in-lieu per replacement tree (general) | \$500.00 |
| 2. Security or cash-in-lieu per replacement tree when replacing a hazardous specimen tree | \$500.00 |
| 3. Security or cash-in-lieu per replacement tree when replacing a non-hazardous specimen tree | \$10,000.00 |

Securities for Retained Trees

- | | |
|---|-------------|
| 1. Security per retained protected tree, other than a specimen tree | \$2,500.00 |
| 2. Security per retained specimen tree | \$10,000.00 |

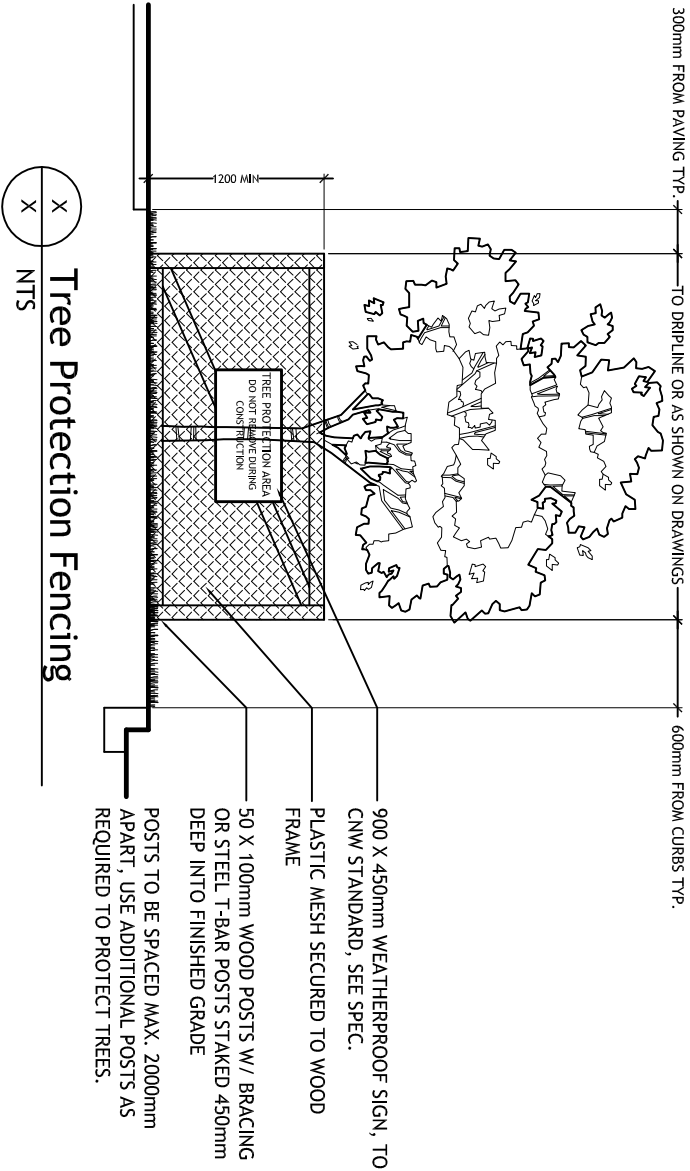
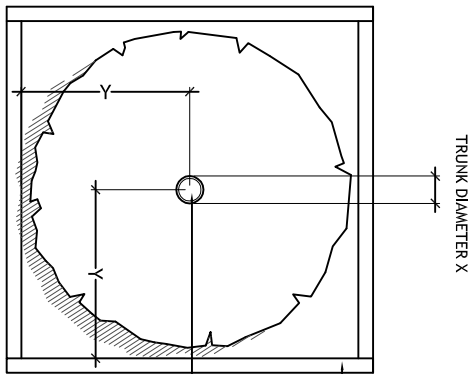
SCHEDULE B

TREE PROTECTION BARRIER

TRUNK DIAMETER X (cm)	MINIMUM PROTECTION REQUIRED AROUND TREE-DISTANCE FROM TRUNK Y (m)
20 cm	1.2 m
25 cm	1.5 m
30 cm	1.8 m
35 cm	2.1 m
40 cm	2.4 m
45 cm	2.7 m
50 cm	3.0 m
55 cm	3.3 m
60 cm	3.6 m
75 cm	4.5 m
90 cm	5.0 m
100 cm	6.0 m

NOTES:

- 1) REFER TO CITY OF NEW WESTMINSTER (CNW) TREE PROTECTION BY-LAWS FOR STANDARD REQUIREMENTS.
- 2) TREE DIAMETER AT BREAST HEIGHT (DBH) TO BE MEASURED AT 1.3M FROM GRADE.
- 3) INSTALL TREE PROTECTION BARRIER BEFORE CONSTRUCTION BEGINS AND KEEP IN PLACE UNTIL LANDSCAPE CONSTRUCTION IS COMPLETE.
- 4) STORAGE OF BUILDING MATERIALS AND LITTER WITHIN THE OR AGAINST TREE PROTECTION BARRIER IS PROHIBITED. DEVELOPER/ OWNER RESPONSIBLE FOR MAINTENANCE WITHIN TREE PROTECTION BARRIER.
- 5) DAMAGED TREES TO BE REPLACED AT DEVELOPER'S/ OWNERS COST.
- 6) MAINTAIN EXISTING GRADES AT PROTECTION BARRIER FOR ALL PROTECTED AND RETAINED TREES.
- 7) REGADING OUTSIDE OF THE PROTECTION BARRIER SHOULD NOT ADVERSELY COMPROMISE PROTECTED, RETAINED AND EXISTING TREES.



SCHEDULE C

REPLACEMENT TREES

[see next page]

Tree Species List for Planting and Replacement

Scientific Name	Common Name	Specimen	Fall Conspicuous	Flower Color	Flower Conspicuous	Foliage Color	Foliage Texture	Fruit Color	Fruit Conspicuous	Growth Form	Height, Mature (feet)	Height, Mature (meters)	Evergreen	Shape and Orientation	Drought Tolerance	Shade Tolerance	Bloom Period	Berry/Nut/Seed Product	Palatable Human
Acer campestre	hedge maple		Yes	Yellow	No	Green	Medium	Brown	No	Single Stem	18	5	No	Rounded	Medium	Tolerant	Spring	No	No
Acer circinatum	vine maple		Yes	Green	Yes	Green	Medium	Brown	No	Single Stem	20	6	No	Erect	Low	Tolerant	Spring	No	No
Acer ginnala	Amur maple		Yes	White	No	Green	Medium	Brown	Yes	Multiple Stem	20	6	No	Rounded	Low	Intermediate	Mid Spring	No	No
Acer glabrum	Rocky Mountain maple		Yes	Green	No	Green	Coarse	Brown	No	Multiple Stem	30	9	No	Erect	Medium	Intermediate	Late Spring	No	No
Acer grandidentatum	bigtooth maple		No	Yellow	Yes	Green	Medium	Brown	No	Single Stem	38	12	No	Erect	Low	Intermediate	Spring	No	No
Acer macrophyllum	bigleaf maple		Yes	Yellow	No	Green	Medium	Brown	No	Single Stem	60	18	No	Erect	Low	Intermediate	Mid Spring	No	No
Acer negundo	Manitoba maple		Yes	White	No	Green	Coarse	Brown	Yes	Multiple Stem	60	18	No	Erect	High	Tolerant	Early Spring	No	No
Acer nigrum	black maple		Yes	Yellow	No	Green	Medium	Brown	No	Single Stem	100	30	No	Erect	Medium	Tolerant	Late Spring	No	No
Acer pensylvanicum	striped maple		Yes	Yellow	No	Green	Medium	Brown	No	Single Stem	35	11	No	Erect	Low	Tolerant	Late Spring	No	No
Acer platanoides	Norway maple	y	Yes	Green	No	Green	Medium	Brown	Yes	Single Stem	50	15	No	Rounded	Low	Intermediate	Early Spring	No	No
Acer pseudoplatanus	sycamore maple		No	Green	No	Yellow-Green	Coarse	Green	Yes	Single Stem	70	21	No	Erect	Medium	Intolerant	Late Spring	No	No
Acer rubrum	red maple		Yes	Red	Yes	Green	Medium	Red	Yes	Single Stem	68	21	No	Rounded	Medium	Intermediate	Early Spring	No	No
Acer saccharinum	silver maple		Yes	Yellow	Yes	Green	Medium	Brown	Yes	Single Stem	90	27	No	Rounded	Low	Intermediate	Early Spring	No	No
Acer saccharum	sugar maple	y	Yes	Green	No	Green	Coarse	Brown	No	Single Stem	100	30	No	Erect	Medium	Tolerant	Mid Spring	No	No
Aesculus flava	yellow buckeye		Yes	Yellow	Yes	Green	Coarse	Brown	Yes	Single Stem	65	20	No	Erect	Low	Tolerant	Late Spring	No	No
Aesculus glabra	Ohio buckeye		Yes	Green	Yes	Green	Coarse	Brown	Yes	Single Stem	68	21	No	Erect	Medium	Tolerant	Mid Spring	No	No
Aesculus hippocastanum	horse-chestnut		No	White	Yes	Green	Coarse	Brown	Yes	Single Stem	70	21	No	Rounded	Medium	Intermediate		No	No
Aesculus pavia	red buckeye		No	Red	Yes	Yellow-Green	Coarse	Brown	Yes	Single Stem	25	8	No	Erect	Low	Tolerant	Late Spring	No	No
Aesculus sylvatica	painted buckeye		Yes	Yellow	Yes	Green	Coarse	Brown	Yes	Single Stem	65	20	No	Erect	Low	Intermediate	Mid Spring	No	No
Albizia julibrissin	silktree		No	White	Yes	White-Gray	Fine	Brown	Yes	Single Stem	20	6	No	Erect	Medium	Intolerant	Mid Summer	No	No
Amelanchier arborea	common serviceberry		Yes	White	Yes	Dark Green	Fine	Red	Yes	Single Stem	36	11	No	Erect	Low	Tolerant	Mid Spring	Yes	Yes
Amelanchier laevis	Allegheny serviceberry		Yes	White	Yes	Green	Medium	Purple	Yes	Multiple Stem	35	11	No	Erect	Medium	Tolerant	Early Spring	Yes	No
Asimina triloba	pawpaw		Yes	Purple	No	Dark Green	Coarse	Brown	No	Single Stem	25	8	No	Erect	Low	Tolerant	Mid Spring	Yes	Yes
Betula alleghaniensis	yellow birch	y	No	Yellow	No	Green	Medium	Brown	No	Single Stem	75	23	No	Erect	Medium	Intermediate	Late Spring	No	No
Betula nigra	river birch		No	Brown	No	Green	Medium	Brown	No	Multiple Stem	70	21	No	Erect	Low	Intolerant	Mid Spring	No	No
Carpinus caroliniana	American hornbeam		Yes	Orange	Yes	Green	Medium	Brown	No	Multiple Stem	30	9	No	Erect	Low	Tolerant	Mid Spring	No	No
Catalpa bignonioides	southern catalpa		No	White	Yes	Green	Coarse	Green	Yes	Single Crown	66	20	No	Erect	Medium	Intermediate	Mid Spring	No	No
Catalpa speciosa	northern catalpa	y	Yes	White	Yes	Dark Green	Medium	Brown	Yes	Single Stem	60	18	No	Erect	Medium	Intolerant	Early Summer	No	No
Celtis occidentalis	common hackberry		Yes	Green	No	Green	Coarse	Purple	No	Single Stem	50	15	No	Erect	High	Tolerant	Mid Spring	No	No
Cercis canadensis	eastern redbud		No	Purple	Yes	Green	Coarse	Brown	Yes	Multiple Stem	30	9	No	Erect	High	Tolerant	Spring	No	Yes
Cladrastis lutea	Kentucky yellowwood		Yes	White	Yes	Green	Medium	Brown	Yes	Single Stem	40	12	No	Erect	Medium	Intermediate	Early Summer	No	No
Cornus alternifolia	alternatleaf dogwood		Yes	White	Yes	Dark Green	Medium	Black	Yes	Multiple Stem	25	8	No	Erect	Low	Tolerant	Mid Spring	No	No
Cornus mas	Cornelian cherry		Yes	Yellow	Yes	Dark Green	Coarse	Red	Yes	Single Stem	25	8	No	Erect	Low	Intermediate	Summer	No	Yes
Cornus nuttallii	Pacific dogwood		Yes	Green	Yes	Green	Medium	Red	Yes	Multiple Stem	50	15	No	Erect	Low	Tolerant	Mid Spring	No	No
Crataegus crus-galli	cockspur hawthorn		Yes	White	Yes	Green	Medium	Red	Yes	Single Stem	30	9	No	Erect	High	Intolerant	Late Spring	No	No
Fagus grandifolia	American beech	y	Yes	Yellow	No	Green	Medium	Brown	No	Single Stem	80	24	No	Erect	High	Tolerant	Mid Spring	Yes	Yes
Fagus sylvatica 'Purpurea'	copper or purple beech		Yes	Red	No	Purple	Fine	Brown	Yes	Single Stem	115	35	No	Rounded	High	Intolerant	Mid Spring	Yes	Yes
Fraxinus americana	white ash	y	Yes	Yellow	No	Green	Fine	Brown	Yes	Single Stem	90	27	No	Erect	Low	Intolerant	Mid Spring	No	No
Fraxinus latifolia	Oregon ash		Yes	Green	No	Green	Medium	Brown	No	Single Stem	70	21	No	Erect	Low	Intermediate	Mid Spring	No	No
Fraxinus nigra	black ash		No	White	No	Green	Medium	Brown	No	Single Stem	65	20	No	Erect	Low	Intolerant	Early Spring	No	No
Fraxinus pennsylvanica	green ash	y	Yes	Green	Yes	Yellow-Green	Coarse	Brown	No	Single Crown	65	20	No	Irregular	Medium	Tolerant	Late Spring	No	No
Gleditsia triacanthos	honeylocust		Yes	Yellow	No	Green	Medium	Green	Yes	Single Crown	70	21	No	Rounded	High	Intolerant	Late Spring	No	No
Gymnocladus dioicus	Kentucky coffeetree		No	White	Yes	Green	Coarse	Green	Yes		100	30	No	Rounded	Medium	Intolerant	Early Summer	No	No
Juglans cinerea	butternut		Yes	Green	No	Green	Coarse	Brown	Yes	Single Stem	80	24	No	Erect	Low	Intolerant	Late Spring	Yes	Yes
Juglans nigra	black walnut	y	No	Yellow	No	Green	Medium	Brown	Yes	Single Stem	100	30	No	Erect	Low	Intolerant	Late Spring	Yes	Yes
Juglans regia	English walnut	y	No	White	No	Green	Coarse	Brown	Yes	Single Stem	60	18	No	Rounded	Medium	Intolerant	Mid Spring	Yes	Yes
Koelreuteria paniculata	goldenrain tree		Yes	Yellow	Yes	Green	Fine	Brown	Yes	Single Stem	45	14	No	Erect	Medium	Intolerant	Late Spring	No	No
Lithocarpus densiflorus	tanoak		No	Yellow	Yes	Green	Medium	Brown	Yes	Single Stem	125	38	Yes	Erect	High	Tolerant	Indeterminate	No	Yes
Maclura pomifera	osage orange		No	Green	No	Green	Coarse	Orange	Yes	Single Stem	35	11	No	Erect	Medium	Intolerant	Late Spring	No	No
Magnolia xsoulangiana	Chinese magnolia		No	Purple	Yes	Dark Green	Coarse	Brown	Yes	Single Stem	30	9	No	Erect	Low	Intolerant	Early Spring	No	No
Magnolia acuminata	cucumber-tree		Yes	Yellow	Yes	Green	Coarse	Red	Yes	Single Stem	100	30	No	Irregular	None	Intermediate	Mid Spring	No	No
Magnolia grandiflora	southern magnolia		Yes	White	Yes	Green	Coarse	Red	Yes	Single Stem	100	30	Yes	Rounded	Low	Tolerant	Mid Spring	No	No
Morus alba	white mulberry		No	Green	No	Green	Medium	Purple	Yes	Single Stem	50	15	No	Rounded	Medium	Intermediate	Early Spring	Yes	No
Morus rubra	red mulberry		No	Green	No	Green	Medium	Purple	Yes	Single Stem	70	21	No	Rounded	Medium	Tolerant	Early Spring	Yes	Yes
Nyssa sinensis	Chinese tupelo		Yes	Green	No	Red-Orange	Medium	Brown	Yes	Single Stem	50	15	No	Rounded	Tolerant	Intermediate	Early Spring	No	No

Tree Species List for Planting and Replacement

Scientific Name	Common Name	Specimen	Fall Conspicuous	Flower Color	Flower Conspicuous	Foliage Color	Foliage Texture	Fruit Color	Fruit Conspicuous	Growth Form	Height, Mature (feet)	Height, Mature (meters)	Evergreen	Shape and Orientation	Drought Tolerance	Shade Tolerance	Bloom Period	Berry/Nut/Seed Product	Palatable Human
Nyssa sylvatica	blackgum		Yes	Green	No	Green	Coarse	Blue	No	Single Stem	95	29	No	Erect	Low	Tolerant	Late Spring	No	No
Ostrya virginiana	hophornbeam		No	Yellow	No	Green	Medium	Brown	No	Single Stem	45	14	No	Erect	Medium	Tolerant	Mid Spring	No	No
Oxydendrum arboreum	sourwood		Yes	White	Yes	Green	Coarse	Brown	No	Single Stem	35	11	No	Columnar	Medium	Tolerant	Early Summer	No	No
Platanus occidentalis	American sycamore	y	Yes	Red	No	Green	Coarse	Brown	Yes	Single Stem	100	30	No	Erect	Low	Intermediate	Spring	No	No
Populus balsamifera	balsam poplar		No	Yellow	No	Yellow-Green	Medium	Brown	No	Single Stem	80	24	No	Irregular	Low	Intolerant	Late Spring	No	No
Populus deltoides	eastern cottonwood		No	Yellow	No	Green	Coarse	White	No	Single Stem	130	40	No	Erect	Low	Intolerant	Mid Spring	No	No
Populus fremontii	Fremont cottonwood		Yes	White	No	Green	Medium	White	No	Single Stem	90	27	No	Irregular	Medium	Intolerant	Early Spring	No	No
Populus grandidentata	bigtooth aspen		No	Yellow	No	Green	Medium	Brown	No	Single Stem	65	20	No	Erect	Low	Intolerant	Mid Spring	No	No
Populus tremuloides	quaking aspen		No	Blue	No	Green	Medium	White	No	Single Stem	65	20	No	Rounded	Low	Intolerant	Mid Spring	No	No
Prunus americana	American plum		No	White	Yes	Green	Medium	Red	Yes	Single Stem	24	7	No	Erect	None	Intolerant	Mid Spring	Yes	Yes
Prunus angustifolia	Chickasaw plum		No	White	No	Green	Medium	Red	Yes	Multiple Stem	12	4	No	Semi-Erect	None	Intolerant	Early Spring	No	Yes
Prunus emarginata	bitter cherry	y	No	White	Yes	Green	Fine	Red	Yes	Thicket Forming	80	24	No	Rounded	Medium	Intolerant	Mid Spring	No	No
Prunus nigra	Canadian plum		No	Red	No	Green	Coarse	Orange	No	Thicket Forming	9	3	No	Erect	None	Intolerant	Mid Spring	No	Yes
Prunus padus	European bird cherry		No	White	Yes	Green	Medium	Black	Yes	Single Stem	30	9	No	Erect	None	Intolerant	Spring	No	No
Prunus pensylvanica	pin cherry		No	White	Yes	Green	Medium	Red	Yes	Single Stem	30	9	No	Erect	Low	Intolerant	Mid Spring	Yes	Yes
Prunus serotina	black cherry	y	No	White	Yes	Green	Medium	Black	Yes	Multiple Stem	80	24	No	Erect	Medium	Intolerant	Late Spring	No	Yes
Prunus tomentosa	Nanking cherry		Yes	White	Yes	Green	Medium	Red	Yes	Single Crown	8	2	No	Irregular	Medium	Intolerant	Late Spring	No	Yes
Prunus virginiana	chokecherry		Yes	White	Yes	Green	Medium	Black	Yes	Multiple Stem	25	8	No	Erect	Medium	Intolerant	Mid Spring	No	Yes
Ptelea trifoliata	common hoptree		Yes	Yellow	No	Green	Medium	Red	No	Single Stem	25	8	Yes	Erect	Low	Intermediate	Early Summer	No	No
Pyrus communis	common pear		Yes	White	Yes	Green	Medium	Yellow	Yes	Single Stem	50	15	No	Erect	Low	Intolerant	Early Spring	Yes	Yes
Quercus acutissima	sawtooth oak		Yes	Green	No	Dark Green	Coarse	Brown	Yes	Single Stem	70	21	No	Rounded	Medium	Intolerant	Mid Spring	Yes	No
Quercus alba	white oak	y	Yes	Yellow	No	Green	Medium	Brown	Yes	Single Stem	100	30	No	Erect	Medium	Intermediate	Mid Spring	No	No
Quercus coccinea	scarlet oak	y	Yes	Yellow	No	Green	Medium	Brown	Yes	Single Stem	70	21	No	Erect	Medium	Intolerant	Mid Spring	No	No
Quercus falcata	southern red oak	y	Yes	Yellow	No	Green	Coarse	Brown	No	Single Stem	75	23	No	Erect	High	Intermediate	Mid Spring	No	No
Quercus laevis	turkey oak	y	Yes	Yellow	No	Green	Medium	Brown	Yes	Single Stem	40	12	No	Erect	High	Intolerant	Late Spring	No	No
Quercus laurifolia	laurel oak	y	Yes	Yellow	No	Green	Medium	Brown	Yes	Single Stem	70	21	No	Erect	Low	Tolerant	Early Spring	No	No
Quercus macrocarpa	bur oak	y	Yes	Yellow	No	Green	Medium	Brown	Yes	Single Stem	100	30	No	Erect	High	Intermediate	Mid Spring	No	No
Quercus muehlenbergii	chinkapin oak	y	Yes	Yellow	No	Green	Medium	Brown	Yes	Single Stem	70	21	No	Erect	High	Intolerant	Mid Spring	No	No
Quercus nigra	water oak	y	Yes	Yellow	No	Green	Medium	Brown	Yes	Single Stem	90	27	No	Erect	Low	Intolerant	Mid Spring	No	No
Quercus pagoda	cherrybark oak	y	Yes	Yellow	No	Green	Medium	Brown	Yes	Single Stem	120	37	No	Erect	Low	Intolerant	Mid Spring	No	No
Quercus palustris	pin oak	y	Yes	Yellow	No	Green	Medium	Brown	No	Colonizing	100	30	No	Erect	Low	Intolerant	Spring	No	No
Quercus rubra	northern red oak	y	Yes	Yellow	No	Green	Medium	Brown	Yes	Single Stem	81	25	No	Erect	Low	Intermediate	Mid Spring	No	No
Robinia pseudoacacia	black locust		No	White	Yes	Green	Medium	Black	Yes	Multiple Stem	60	18	No	Erect	High	Intolerant	Spring	No	No
Salix xsepulcralis	weeping willow		No	Yellow	No	Green	Medium	White	No	Single Stem	70	21	No	Erect	Medium	Intolerant	Early Spring	No	No
Sassafras albidum	sassafras		Yes	Yellow	Yes	Green	Coarse	Blue	No	Single Stem	75	23	No	Irregular	High	Intolerant	Late Spring	No	Yes
Tilia americana	American basswood		Yes	Yellow	Yes	Green	Medium	Brown	No	Single Stem	100	30	No	Erect	Low	Tolerant	Late Spring	No	No
Tilia cordata	littleleaf linden		Yes	Yellow	No	Green	Fine	Brown	No	Single Stem	100	30	No	Erect	Medium	Intermediate	Early Summer	No	No
Ulmus americana	American elm	y	Yes	Green	No	Green	Coarse	Brown	No	Single Stem	120	37	No	Erect	Medium	Intermediate	Early Spring	No	No
Ulmus parvifolia	Chinese elm	y	Yes	Yellow	No	Green	Coarse	Brown	Yes	Single Stem	60	18	No	Erect	Medium	Intolerant	Late Summer	No	No
Ulmus pumila	Siberian elm		No	Green	No	Green	Medium	Brown	No	Single Stem	70	21	No	Erect	High	Intolerant	Mid Spring	No	No
Ulmus rubra	slippery elm	y	No	Yellow	No	Green	Coarse	Brown	No	Single Stem	85	26	No	Erect	Medium	Tolerant	Late Winter	No	No
Ulmus thomasii	rock elm	y	No	Yellow	No	Green	Coarse	Brown	No	Single Stem	90	27	No	Erect	Low	Intermediate	Mid Spring	No	No
Zelkova serrata	Japanese zelkova		Yes	Green	No	Dark Green	Fine	Brown	No	Single Crown	89	27	No	Erect	None	Intolerant	Mid Spring	No	No
Picea abies	Norway spruce		No		No	Green	Medium	Brown	No	Single Stem	90	27	Yes	Conical	Medium	Intermediate		No	No
Cercidiphyllum japonicum	Katsura tree		Yes		No	Green	Fine	Brown	No	Single Crown	50	15	No	Oval	Low	Intermediate		No	No
Parrotia persica	Persian ironwood		Yes	Brown	Yes	Green	Coarse	Brown	No	Single Crown	35	11	No	Vase	Medium	Intermediate	Spring	No	No