ARBORIST REPORT
AND
TREE PROTECTION PLAN

Pertaining to:
514 Wellington St. R3M 0B9
Winnipeg, Manitoba

Prepared for: Susan Russell
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Introduction

Green Drop Tree Care was hired by Susan Russel, of McGowan Russell Group to complete an Arborist report for the site at 514 Wellington Cres.

A Tree Inventory Report was completed to inform the client of the existing species, size and condition of the trees on the site. These are located on a site map. The report also provides preliminary tree preservation recommendations.

49 trees on the building site will be saved and protected. 4 trees have been recommended for removal due to poor or declining health. There are 7 city owned trees on this site, 6 of these trees will be unaffected by construction related activities. For 1 city owned tree, protection is recommended. (#357 on appendix II)

Method

1. Green Drop Tree Care conducted a site inspection and tree assessment on April 9th, 12th and May 26th 2021.

2. Trunk diameter was measured using a calibrated diameter tape. The measurement was taken at 1.4 meters above ground level, generally referred to as the diameter at breast height (DBH).

3. Trees were assessed by visual inspection from the ground. Trees were evaluated in consideration of overall health and structural integrity and assigned a condition rating ranging from good to fair to poor. Trees that are to be removed on public property were not assigned a condition.

4. Green Drop Ltd. created a Tree Protection Plan by adding tree locations to a site map with tree protection/removal comments. (Refer to Appendices I & II)

Tree-by-Tree Inventory and Site Map

See Appendices I and II attached.

Tree Protection

Refer to:

- Appendix I: Complete tree inventory
- Appendix II: Map indicating approximate tree locations, in relation to construction.

Tree Protection – General

1. Protective barriers should be installed around all trees to be retained prior to any construction commencing on site as shown on the Tree Protection Plan. Refer to Appendix II.

2. Tree protection barriers are to be located at the outer limit of the minimum Tree Protection Zone (TPZ) and is correlated to trunk diameter (see table).

Trunk Diameter (DBH)	Minimum Protection Distances Required for Private or City Street Trees
< 10 cm	1.2 m
11 – 29 cm	1.8 m
30 – 41 cm	2.4 m
41 – 50 cm	3.0 m
51 – 60 cm	3.6 m
61 – 70 cm	4.2 m
71 – 80 cm	4.8 m
81 – 90 cm	5.4 m
91 – 100 cm	6 m

3. The barriers enclose the tree protection zone (TPZ), within which no construction-related activity is permitted without the permission from City of Winnipeg Urban Forestry Branch or onsite Supervisor regarding private trees. Within the TPZ there is to be,
    - No construction
    - No altering of grade due to cut and fill, surface scraping, excavating, or soil disturbance
    - No storage of construction materials, soil, waste, or debris

- No disposal of any solid or liquid
- No parking, operation, or passage of vehicles or equipment
- No personal access

4. Unless otherwise stipulated on the Tress Protection Plan, the barriers are to be 4 feet high, and constructed of high orange plastic web snow fencing on a wood frame or as directed by the City of Winnipeg Urban Forestry Branch in accordance with City of Winnipeg Protection of Existing Tree Specifications. Supports and braces for the barriers must be installed outside the TPZ. The barrier locations can be adjusted to align with curbs and edges at clear path of travel zones.

5. Tree strapping material will be installed on individual trees where work will be completed within the TPZ.

Watering of Trees

- It is extremely important to regularly monitor the soil moisture levels within the root zones of the trees during the months from April to November, and to ensure adequate supplemental watering is done promptly as necessary. The objective of the watering is to provide the trees with deep, thorough watering when rainfall is insufficient to keep the soil moist 2" below the surface.

- It is strongly recommended that an individual who will be on-site for the duration of the project be assigned this responsibility and be given clear instruction on how to check moisture levels, how and where to apply the water and how much.

Fertilization

- Fertilization can be completed to encourage growth and increase vigor. Fertilizers should be applied in early spring just before growth occurs.

Site Supervision by the Arborist

- During the construction-phase of the project, a qualified Arborist** can make routine site inspections to monitor tree protection and provide follow-up summary reports and/or recommendations for tree care or protection related work. This would typically be outlined in an Arborist implementation plan, if requested.
  *** The Arborist must hold designation(s) as specified in The City of Winnipeg Arborist report specifications.*

Concluding Remarks

The tree preservation prescriptions recommended in this report for those trees to be protected on the site have been prepared following the City of Winnipeg's minimum Tree Protection Zone guidelines. It is anticipated that for those trees within which these minimum tree protection zones are fully observed, these trees will not be markedly affected by the proposed development.

If there are any questions regarding this report, please contact;

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For more information on tree care please visit:
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Appendix I
Tree-by-Tree Inventory

Tree #	Species	Size: Diametre (cm)	Condition Rating	Comments
235	Colorado Spruce	20 -29.9 cm	Fair	
236	Colorado Spruce	20 -29.9 cm	Fair	
237	Colorado Spruce	20 -29.9 cm	Fair	
238	Black Spruce	10 - 19.9 cm	Fair	
239	Manitoba Maple	10 - 19.9 cm	Fair	
240	Colorado Spruce	20 -29.9 cm	Good	
241	Black Spruce	20 -29.9 cm	Fair	
242	Colorado Spruce	20 -29.9 cm	Fair	
243	Basswood	10 - 19.9 cm	Poor	Tree in poor condition, removal recommended
244	Lilac	1 - 9.9 cm	Fair	
245	Black Spruce	20 -29.9 cm	Fair	
275	Colorado Spruce	10 - 19.9 cm	Fair	
276	Colorado Spruce	10 - 19.9 cm	Fair	
277	Black Spruce	10 - 19.9 cm	Fair	
306	Cedar	1 - 9.9 cm	Poor	Tree in poor condition, removal recommended
308	Manitoba Maple	10 - 19.9 cm	Fair	
309	Black Spruce	10 - 19.9 cm	Fair	
311	Manitoba Maple	1 - 9.9 cm	Fair	
312	Lilac	1 - 9.9 cm	Fair	
313	American Elm	60 - 69.9 cm	Poor/Fair	
314	Black Spruce	10 - 19.9 cm	Fair	
315	Colorado Spruce	10 - 19.9 cm	Fair	
316	Colorado Spruce	10 - 19.9 cm	Fair	
317	Colorado Spruce	10 - 19.9 cm	Fair	
318	Colorado Spruce	10 - 19.9 cm	Fair	
319	Colorado Spruce	20 -29.9 cm	Fair	
320	Colorado Spruce	20 -29.9 cm	Fair	
321	Colorado Spruce	20 -29.9 cm	Fair	
322	Colorado Spruce	20 -29.9 cm	Fair	
323	Colorado Spruce	20 -29.9 cm	Fair	
324	Colorado Spruce	20 -29.9 cm	Poor	
325	Basswood	10 - 19.9 cm	Poor	Tree in poor condition, removal recommended
328	Manitoba Maple	1 - 9.9 cm	Fair	
329	Lilac	1 - 9.9 cm	Fair	
330	Lilac	1 - 9.9 cm	Fair	
331	Lilac	1 - 9.9 cm	Fair	
332	Amur Maple	1 - 9.9 cm	Poor	Tree in poor condition, removal recommended
333	Colorado Spruce	20 -29.9 cm	Fair	
334	Colorado Spruce	20 -29.9 cm	Fair	
335	Colorado Spruce	10 - 19.9 cm	Fair	
336	Ohio Buckeye	10 - 19.9 cm	Good	
339	Ornamental Plum	1 - 9.9 cm	Fair	
340	Colorado Spruce	20 -29.9 cm	Fair	
341	Colorado Spruce	10 - 19.9 cm	Fair	
342	Colorado Spruce	20 -29.9 cm	Fair	
343	American Elm	80 - 89.9 cm	Fair	
344	Colorado Spruce	20 -29.9 cm	Fair	
345	Colorado Spruce	20 -29.9 cm	Fair	
346	Colorado Spruce	10 - 19.9 cm	Fair	
347	Colorado Spruce	20 -29.9 cm	Fair	
348	Colorado Spruce	20 -29.9 cm	Fair	
349	Colorado Spruce	20 -29.9 cm	Fair	
355	American Elm	40 - 49.9 cm	Fair	
364	Maple	1 - 9.9 cm	Good	
351	Green Ash	20 -29.9 cm	Fair	City owned boulevard tree
352	Green Ash	20 -29.9 cm	Fair	City owned boulevard tree
357	American Elm	70 - 79.9 cm	Fair	City owned boulevard tree
359	Green Ash	20 -29.9 cm	Fair	City owned boulevard tree
360	Green Ash	10 - 19.9 cm	Fair	City owned boulevard tree
362	Green Ash	20 -29.9 cm	Fair	City owned boulevard tree
363	American Elm	10 - 19.9 cm	Fair	City owned boulevard tree

Appendix II - Site Map

514 Wellington Cres.
Arborist Report

- Tree protection recommended
- Due to proximity of construction, tree removal recommended
- Tree needs to be removed
- If not protected, tree will be impacted by construction
- No actions required
- Tree Protection Fencing



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514 WELLINGTON CRESCENT

CONCEPTUAL SITE PLAN

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City of Winnipeg Urban Forestry – Tree Removal Guidelines

PUBLIC WORKS DEPARTMENT • SERVICE DES TRAVAUX PUBLICS

Urban Forestry Branch • Direction de la foresterie urbaine

TREE REMOVAL GUIDELINES

These guidelines are applicable to situations where trees in fair to good condition are proposed to be removed or have been removed and include, but are not limited to, the following situations:

- Movie sets
- Private and commercial approaches
- Planned construction, street work, and water and waste projects.

(0 – 10cm) Trees can be replaced at approximately the same size. Customer pays removal cost if the Urban Forestry Branch is requested to remove trees and replacement costs (currently $600 / tree).

(10 – 30cm) Trees are not easily replaced and are valued according to Council of Tree and Landscape Appraisal Formula.

(30cm +) The Urban Forestry Branch's position is to deny removal.

Funding received by The Urban Forestry Branch will be invested back in the form of tree planting within the ward to maintain the canopy of the urban forest.

Additional Guidelines:

1) There shall be no charge for removal / replacement for trees that are dead or are in decline.

2) Trees that are part of emergency water and waste projects shall be priced for removal and replacement cost.

3) For new easements Manitoba Hydro shall consult with the City of Winnipeg Urban Forestry Branch prior to any proposed tree removal. During the consultation, all attempts shall be made to minimize tree removal. Trees that are removed shall be compensated at a value of 1 new tree per 10 cm of dbh (ie. 40 cm dbh tree = 4 replacement trees @ $600 / tree = $2400). If Manitoba Hydro fails to consult with the Urban Forestry Branch in these matters, then the Council of Tree & Landscape Appraisers, **Guide for Plant Appraisal (current edition)**, shall be used to determine the value of trees.

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4) Natural stand trees growing in an “A” and “B” quality habitat are valued 1:1 ratio for those greater than 5cm dbh. Trees greater than 10cm dbh are valued at one replacement tree for every additional 7.5 cm of dbh (ie. 17.5cm dbh = 2 replacement trees @ $600 / tree = $1200). Natural stand trees growing in a “C” and “D” quality habitat shall be priced for removal.

When habitat is assessed it is assigned a grade from A-D. "A" is a very good grade while "D" is not good. The definitions for these grades follow.

"A" Quality Habitat (Maximum sensitivity to disturbance): Virtually undisturbed by man or recovered to an extent where community structure and composition is intact and reflects historical natural vegetation and wildlife habitat. Other factors include soil disturbance, a high degree of native vegetation present and conversely, a lack of weedy or non-native plant species.

"B" Quality Habitat (High sensitivity to disturbance): Light to moderate disturbance, for example, encroachment of non-native species, may have a minimal amount of weeds but maintains a more natural condition where native species are still the major vegetation community.

"C" Quality Habitat (Low sensitivity to disturbance): Moderate disturbance, a significant number of weed species that have replaced native species, few native species present. For example, an old agricultural clearing that has not been used in recent times and native plant species are slowly returning, or an area that is occasionally mowed.

"D" Quality Habitat (Minimum sensitivity to disturbance): Heavily disturbed site, the vegetation is dominated by weed species or absent all together. No or very few native species present.