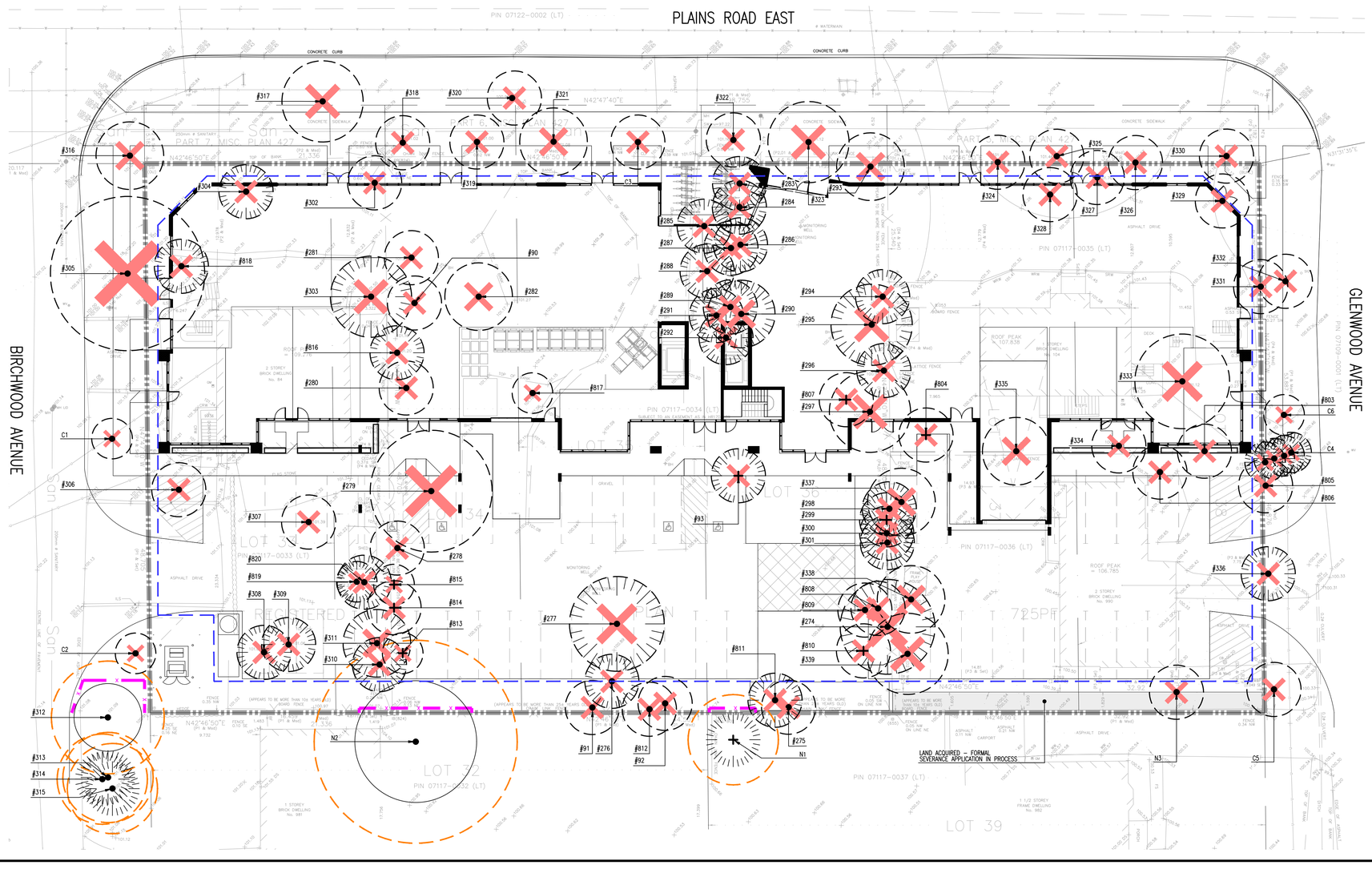
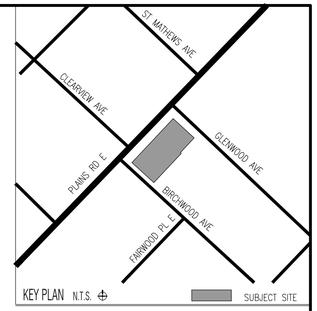
Tree Inventory

Project #: 2535 | **Dates** | **9/10/2024, 04/22/2025** | **Burlington**

Tree #	Genus Species	Common Name	DBH cm	Crown spread m. dia.	Structure	Health	Comment	Action	Rationale	MTPZ m. radius	CRZ m. radius	Est. % injury
	Private Site Trees	**Owner-Proponent**										
90	*Ulmus americana*	White Elm	16	4	Fair	Good	multi-stem	Remove	within U/G garage footprint	2.4	4	n/a
91	*Morus alba*	White Mulberry	37	12	Fair	Fair	multi-stem clump 19/19/18/17	Remove	U/G garage excavation conflict	2.4	4	n/a
92	*Ailanthus altissima*	Tree-of-Heaven	19	5	Good	Good		Remove	U/G garage excavation conflict	2.4	4	n/a
93	*Picea glauca*	White Spruce	16	3	Good	Good		Remove	within U/G garage footprint	2.4	4	n/a
274	*Picea abies*	Norway Spruce	62	8	Fair	Fair	deadwood, hangers	Remove	within U/G garage footprint	4.2	7	n/a
275	*Malus sp.*	Apple	20	4	Poor	Poor	70% dieback	Remove	poor condition	2.4	4	n/a
276	*Picea abies*	Norway Spruce	26	6	Fair	Fair		Remove	within U/G garage footprint	2.4	4	n/a
277	*Picea abies*	Norway Spruce	69	10	Fair	Good		Remove	within U/G garage footprint	4.2	7	n/a
278	*Juglans nigra*	Black Walnut	20	5	Poor	Fair	poor taper, 1-sided canopy	Remove	within U/G garage footprint	2.4	4	n/a
279	*Quercus rubra*	Red Oak	**85**	20	Fair	Good	weak branch attachments	Remove	within U/G garage footprint	5.4	9	n/a
280	*Morus alba*	White Mulberry	30	8	Fair	Good		Remove	within U/G garage footprint	2.4	4	n/a
281	*Acer platanoides*	Norway Maple	37	12	Good	Good		Remove	within U/G garage footprint	2.4	4	n/a
282	*Gingko biloba*	Maidenhair	46	10	Fair	Good		Remove	within U/G garage footprint	3	5	n/a
283	*Picea abies*	Norway Spruce	25	4	Poor	Fair	topped, dieback	Remove	within U/G garage footprint	2.4	4	n/a
284	*Picea abies*	Norway Spruce	36	6	Fair	Fair		Remove	within U/G garage footprint	2.4	4	n/a
285	*Picea abies*	Norway Spruce	34	7	Fair	Fair		Remove	within U/G garage footprint	2.4	4	n/a
286	*Picea abies*	Norway Spruce	31	6	Fair	Fair	lower branch dieback	Remove	within U/G garage footprint	2.4	4	n/a
287	*Picea abies*	Norway Spruce	21	5	Fair	Fair	lower branch dieback	Remove	within U/G garage footprint	2.4	4	n/a
288	*Pinus sylvestris*	Scots Pine	34	9	Fair	Fair	branch dieback	Remove	within U/G garage footprint	2.4	4	n/a
289	*Picea glauca*	White Spruce	25	5	Fair	Fair	branch dieback	Remove	within U/G garage footprint	2.4	4	n/a
290	*Picea abies*	Norway Spruce	50	9	Fair	Fair	branch dieback	Remove	within U/G garage footprint	3	5	n/a
291	*Picea abies*	Norway Spruce	30	6	Fair	Fair	branch dieback	Remove	within U/G garage footprint	2.4	4	n/a
292	*Picea abies*	Norway Spruce	29	7	Fair	Fair	branch dieback	Remove	within U/G garage footprint	2.4	4	n/a
293	*Acer platanoides*	Norway Maple	45	12	Good	Good		Remove	U/G garage excavation conflict	3	5	n/a
294	*Picea glauca*	White Spruce	34	5	Fair	Fair		Remove	within U/G garage footprint	2.4	4	n/a
295	*Acer platanoides*	Norway Maple	60	20	Fair	Good		Remove	within U/G garage footprint	3.6	6	n/a
296	*Picea glauca*	White Spruce	39	5	Fair	Fair	branch dieback	Remove	within U/G garage footprint	2.4	4	n/a
297	*Acer saccharinum*	Silver Maple	59	20	Fair	Fair	branch dieback	Remove	within U/G garage footprint	3.6	6	n/a
298	*Picea abies*	Norway Spruce	36	6	Fair	Fair	branch dieback	Remove	within U/G garage footprint	2.4	4	n/a
299	*Ulmus pumila*	Siberian Elm	23	5	Fair	Fair	17/15 stems	Remove	within U/G garage footprint	2.4	4	n/a
300	*Picea abies*	Norway Spruce	30	6	Fair	Fair	branch dieback	Remove	within U/G garage footprint	2.4	4	n/a
301	*Picea abies*	Norway Spruce	33	6	Fair	Fair	upper stem lean, branch dieback	Remove	within U/G garage footprint	2.4	4	n/a
302	*Acer platanoides*	Norway Maple	32	6	Fair	Good		Remove	within U/G garage footprint	2.4	4	n/a
303	*Pseudotsuga menziesii*	Douglas Fir	53	8	Fair	Fair	thinning canopy	Remove	within U/G garage footprint	3.6	6	n/a
304	*Picea abies*	Norway Spruce	38	8	Fair	Fair		Remove	within U/G garage footprint	2.4	4	n/a
306	*Gleditsia triacanthos*	Honey Locust	34	12	Good	Good		Remove	within U/G garage footprint	2.4	4	n/a
307	*Acer platanoides*	Norway Maple	26	6	Fair	Good		Remove	within U/G garage footprint	2.4	4	n/a
308	*Pinus nigra*	Austrian Pine	35	5	Fair	Fair	tip blight	Remove	within U/G garage footprint	2.4	4	n/a
309	*Pinus nigra*	Austrian Pine	37	6	Poor	Poor	90% dieback	Remove	poor condition	2.4	4	n/a
310	*Picea pungens glauca*	Blue Colorado Spruce	24	4	Fair	Fair	branch dieback	Remove	within U/G garage footprint	2.4	4	n/a
311	*Picea pungens glauca*	Blue Colorado Spruce	42	5	Fair	Fair	branch dieback	Remove	within U/G garage footprint	3	5	n/a
327	*Gleditsia triacanthos*	Honey Locust	38	12	Fair	Fair	branch dieback	Remove	within U/G garage footprint	2.4	4	n/a
328	*Gleditsia triacanthos*	Honey Locust	29	10	Fair	Fair	branch dieback	Remove	within U/G garage footprint	2.4	4	n/a
329	*Acer platanoides*	Norway Maple	31	7	Fair	Good		Remove	within U/G garage footprint	2.4	4	n/a
333	*Ailanthus altissima*	Tree-of-Heaven	66	16	Fair	Fair	branch dieback	Remove	within U/G garage footprint	4.2	7	n/a
334	*Acer platanoides*	Norway Maple	30	14	Good	Good		Remove	within U/G garage footprint	2.4	4	n/a
335	*Morus alba*	White Mulberry	43	16	Fair	Good	discoloured bark, sap oozing	Remove	within U/G garage footprint	3	5	n/a
337	*Acer platanoides*	Norway Maple	50	12	Fair	Fair		Remove	within U/G garage footprint	3	5	n/a
338	*Acer platanoides*	Norway Maple	50	8	Poor	Fair	main stem decay	Remove	within U/G garage footprint	3	5	n/a
339	*Acer platanoides*	Norway Maple	55	16	Fair	Good		Remove	within U/G garage footprint	3.6	6	n/a
803	*Ailanthus altissima*	Tree-of-Heaven	16	4	Good	Good	2-stem union @ 1.9m	Remove	within U/G garage footprint	2.4	4	n/a
804	*Ulmus americana*	White Elm	12	4	Good	Good		Remove	within U/G garage footprint	2.4	4	n/a
806	*Fagus sylvatica*	European Beech	10	2	Fair	Good		Remove	within U/G garage footprint	1.8	1.8	n/a
807	*Morus alba*	White Mulberry	15	3	Fair	Fair	multi-stem union @ 0.9m	Remove	within U/G garage footprint	2.4	4	n/a
808	*Ulmus pumila*	Siberian Elm	12	2	Poor	Poor	poor taper, sway, dieback	Remove	poor condition	2.4	4	n/a
809	*Acer platanoides*	Norway Maple	19	4	Fair	Good		Remove	within U/G garage footprint	2.4	4	n/a
810	*Morus alba*	White Mulberry	12	4	Fair	Fair	2-stem union @ 0.4m	Remove	within U/G garage footprint	2.4	4	n/a
811	*Taxus cuspidata*	Japanese Yew	15	4	Good	Good		Remove	U/G garage excavation conflict	2.4	4	n/a
812	*Ailanthus altissima*	Tree-of-Heaven	17	4	Good	Good		Remove	U/G garage excavation conflict	2.4	4	n/a
813	*Ulmus pumila*	Siberian Elm	10	3	Poor	Fair	poor taper, dieback	Remove	within U/G garage footprint	1.8	1.8	n/a
814	*Acer saccharum*	Sugar Maple	12	3	Fair	Fair	thru clf	Remove	within U/G garage footprint	2.4	4	n/a
815	*Acer saccharum*	Sugar Maple	10	3	Fair	Fair	thru clf	Remove	within U/G garage footprint	1.8	1.8	n/a
816	*Thuja occidentalis*	White Cedar	18	3	Fair	Fair	multi-stem	Remove	within U/G garage footprint	2.4	4	n/a
817	*Robinia pseudoacacia*	Black Locust	15	3	Fair	Good		Remove	within U/G garage footprint	2.4	4	n/a
818	*Picea pungens glauca*	Blue Colorado Spruce	16	3	Fair	Good		Remove	within U/G garage footprint	2.4	4	n/a
819	*Thuja occidentalis*	Japanese Yew	10	2	Fair	Fair	thinning canopy	Remove	within U/G garage footprint	1.8	1.8	n/a
820	*Thuja occidentalis*	White Cedar	12	2	Fair	Fair	thinning canopy	Remove	within U/G garage footprint	2.4	4	n/a
N3	*Magnolia sp.*	Magnolia	19	4	Fair	Good	multi-stem 11/9/8/7/6 clump	Remove	U/G garage excavation conflict	2.4	4	n/a
	Boundary Trees-Public	**Owners-City/Proponent**										
324	*Acer platanoides*	Norway Maple	32	10	Fair	Good		Remove	conflict w/ prop. new city sidewalk & U/G garage excavation will severe approx. 50% roots within MTPZ including large stabilizing roots	2.4	4	n/a
326	*Acer platanoides*	Norway Maple	31	9	Fair	Fair	branch dieback	Remove	U/G garage excavation conflict, approx. 50% roots within MTPZ will be severed along with large stabilizing roots & new sidewalk	2.4	6	n/a
331	*Ailanthus altissima*	Tree-of-Heaven	23	7	Fair	Good	3-stems 17/11/10 clump	Remove	U/G garage excavation conflict, approx. 35% roots within MTPZ will be severed along with large stabilizing roots & new sidewalk	2.4	4	n/a
	Adjacent Land Trees	**Owner-982 Glenwood Ave.**										
N1	*Thuja occidentalis*	White Cedar	15	2.5	Fair	Fair	end tree in hedge, multi-stem 9/9/7	Preserve		2.4	4	n/a
	Adjacent Land Trees	**Owner-981 Birchwood Ave.**										
N2	*Acer platanoides*	Norway Maple	**90**	20	Fair	Good	limbs overhanging site	Injure	U/G garage excavation will require encroachment of approx. 17% of MTPZ for root removal, and canopy pruning	5.4	9	17
	Street Trees (ROW)	**Owner-City**										
305	*Quercus rubra*	Red Oak	**113**	24	Fair	Good	Fungal conks on trunk (sign of internal decay)	Remove	U/G garage excavation conflict, approx. 40% roots within MTPZ will be severed along with large stabilizing roots / prop. sidewalk conflict	6.78	10	n/a
312	*Morus alba*	White Mulberry	50	12	Fair	Fair	fused stems, multi-stem clump 39/24/20	Preserve	prop. services are outside MTPZ	3	5	n/a
313	*Thuja occidentalis*	Japanese Yew	35	4	Fair	Good		Preserve		2.4	4	n/a
314	*Thuja occidentalis*	Japanese Yew	19	3	Poor	Fair	stems 15/12, lean over road	Preserve		2.4	4	n/a
315	*Thuja occidentalis*	White Cedar	23	3	Poor	Fair	basal trunk rot	Preserve		2.4	4	n/a
316	*Acer saccharum*	Sugar Maple	47	8	Poor	Poor	70% dieback, declining	Remove	poor condition/sidewalk conflict	3	5	n/a
317	*Quercus rubra*	Red Oak	55	16	Fair	Fair	utility pruned, limbs overhanging road	Remove	conflict w/ prop. new city sidewalk within 70cm of trunk will severe approx. 40% roots within MTPZ including large stabilizing roots	3.6	6	35
318	*Acer platanoides*	Norway Maple	38	9	Good	Good		Remove	conflict w/ prop. new city sidewalk	2.4	4	n/a
319	*Acer platanoides*	Norway Maple	38	9	Fair	Good	2-stem 30/24 union @ 1.3m	Remove	conflict w/ prop. new city sidewalk	2.4	4	n/a
320	*Acer platanoides*	Norway Maple	35	10	Fair	Fair	utility pruned	Remove	conflict w/ prop. new city sidewalk within 90cm of trunk will severe approx. 35% roots within MTPZ including large stabilizing roots	2.4	4	n/a
321	*Acer platanoides*	Norway Maple	41	10	Good	Good		Remove	conflict w/ prop. new city sidewalk	3	5	n/a
322	*Syringa reticulata 'Ivory S*	Ivory Silk Lilac	24	4	Fair	Fair		Remove	conflict w/ prop. new city sidewalk	2.4	4	n/a
323	*Acer platanoides*	Norway Maple	53	14	Fair	Good		Remove	conflict w/ prop. new city sidewalk	3.6	6	n/a
325	*Tilia cordata*	Little Leaf Linden	33	8	Good	Good		Remove	U/G garage excavation conflict, approx. 40% roots within MTPZ will be severed along with large stabilizing roots & new sidewalk	2.4	4	n/a
330	*Juglans nigra*	Black Walnut	19	3	Fair	Fair	2-stems 15/12 (fused)	Remove	conflict w/ prop. new city sidewalk	2.4	4	n/a
332	*Ailanthus altissima*	Tree-of-Heaven	16	6	Good	Good		Remove	conflict w/ prop. new city sidewalk	2.4	4	n/a
336	*Chamaecyparis spp.*	False Cypress	23	3	Good	Good		Remove	U/G garage excavation conflict, approx. 40% roots within MTPZ will be severed along with large stabilizing roots	2.4	4	n/a
805	*Acer palmatum*	Japanese Maple	16	6	Good	Good	multi-stem	Remove	U/G garage & prop. New city sidewalk excavation conflict	2.4	4	n/a
C1	*Syringa reticulata 'Ivory S*	Ivory Silk Lilac	3	1	Good	Fair	branch dieback	Remove	conflict w/ prop. new city sidewalk	1.8	1.8	n/a
C2	*Quercus robur*	English Oak	4	1	Good	Good		Remove	conflict w/ prop. grading associated w/ driveway & within sight lines of driveway	1.8	1.8	n/a
C3	*Syringa reticulata 'Ivory S*	Ivory Silk Lilac	21	1	Poor	Poor	only broken stump remains, suckering	Remove	conflict w/ prop. new city sidewalk / condition	2.4	4	n/a
C4	*Thuja occidentalis 'Emerc*	Emerald Cedar	9	2	Good	Good	4 multi-stem trees in hedge (stem size ranges 7 to 9cm dbh)	Remove	conflict w/ prop. new city sidewalk connection & assoc. grading	1.8	1.8	n/a
C5	*Amelanchier sp.*	Serviceberry	13	3	Fair	Fair	multi-stem 8/6/5/4/4 clump	Remove	U/G garage excavation conflict, approx. 20% roots within MTPZ will be severed & within sight lines of driveway	2.4	4	n/a
C6	*Amelanchier sp.*	Serviceberry	2	1	Good	Good	new street tree	Remove	conflict w/ prop. new city sidewalk excavation & assoc. grading	1.8	1.8	n/a





LEGEND

- PROPERTY LINE
- TREE PROTECTIVE FENCE
- UNDERGROUND PARKING OUTLINE
- TREE LOCATION ESTIMATED
- TREE LOCATION DETERMINED BY SURVEY
- EXISTING DECIDUOUS TREE TO BE PRESERVED (MTPZ (MINIMUM TREE PROTECTION ZONE))
- EXISTING CONIFEROUS TREE TO BE PRESERVED (MTPZ (MINIMUM TREE PROTECTION ZONE))
- EXISTING DECIDUOUS TREE TO BE REMOVED
- EXISTING CONIFEROUS TREE TO BE REMOVED
- CRITICAL ROOT ZONE

Base Information

Topo received in digital format from A.T. McLaren Limited, Project No. 37632, drawing dated and received May 5, 2025.

Site Plan received in digital format from Kozlowski Architect, Project No. 2302, Drawing No. A1 dated and received May 5, 2025.

No	Revision	By	Yr Mo Da
2	Issued for Submisson	MB	25 05 09
1	Issued for Submission	MB	25 01 15

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104 PLAINS ROAD EAST

MIURA DEVELOPMENT GROUP
CITY OF BURLINGTON

TREE PRESERVATION PLAN

Drawn by	FC	Scale	1:200
Checked by	SKC	Plot Date	2025-05-08
Approved by	HN	Project	2535

TP1
Drawing No.

Detail TP-3 – Minimum Tree Protection Zone Sign

Burlington

TREE PROTECTION ZONE (TPZ)

No equipment or vehicles shall be operated, parked, repaired or refueled within the Tree Protection Zone.

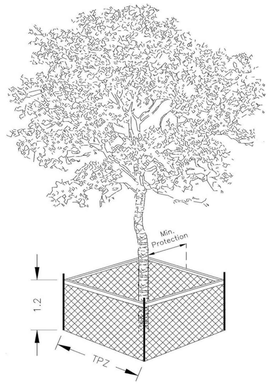
No construction activity, grade changes, surface treatment or excavations of any kind is permitted within the Tree Protection Zone.

No materials or fill may be stored within the Tree Protection Zone.

This tree protection barrier must not be removed prior to the completion of construction without written authorization from the City of Burlington, Urban Forestry Department.

For information, contact:
City of Burlington, Development and Infrastructure Division,
905-335-7642.

Detail TP-1 – Tree Protection Detail.



Trunk Diameter (DBH) [2]	Minimum Tree Protection Zone (MTPZ) Distances Required [3]	Critical Root Zone (CRZ) Distances Required [3&4]
< 10 cm	1.8 m	1.8 m
11 - 40 cm	2.4 m	4.0 m
41 - 50 cm	3.0 m	5.0 m
51 - 60 cm	3.6 m	6.0 m
61 - 70 cm	4.2 m	7.0 m
71 - 80 cm	4.8 m	8.0 m
81 - 90 cm	5.4 m	9.0 m
91 - 100+ cm	6.0 m	10.0 m

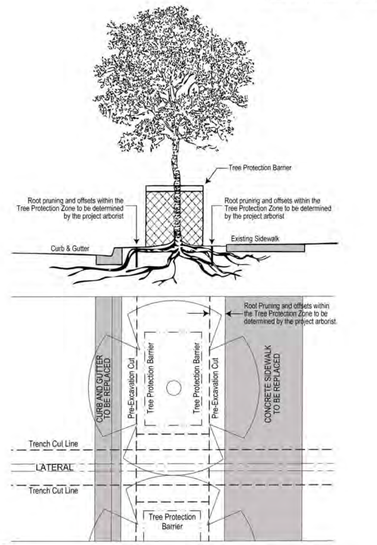
NOTES:

[1] The roots of a tree can extend from the trunk to approximately 2-3 times the distance of the drip line.
[2] Diameter at breast height (DBH) is the measurement of tree trunk taken at 1.4 metres above ground.
[3] Minimum Tree Protection Zone and Critical Root Zone distances are to be measured from the outside edge of the tree base towards the drip line and may be limited by an existing paved surface, provided the existing paved surface remains intact throughout the construction work and is subject to Section 6 of this specification.
[4] Where work is being performed beyond the Minimum Tree Protection Zone but within the Critical Root Zone the works are subject to Section 8 of this specification.

TREE PROTECTION BARRIER

1. The required barrier is a 1.2 metre (4 ft) high orange plastic web snow fencing on 2" x 4" frame. Where orange plastic web snow fencing creates a restriction to sightlines, page wire fencing with reflective tape can be used.
2. Tree protection barriers are to be erected prior to the commencement of any construction or grading activities on the site and are to remain in place throughout the entire duration of the project. The barriers shall be maintained erect and in good repair throughout the duration of construction operations with breaks and unsupported sections repaired immediately. Tree protection may be not be removed prior to the completion of construction without written authorization from the Manager of Urban Forestry or designate.
3. All supports and bracing used to safely secure the barrier should be located outside the MTPZ. All supports and bracing should minimize damage to roots.
4. Where some fill or excavated material must be temporarily located near a MTPZ, a wooden barrier with silt fencing must be used to ensure no material enters the MTPZ.
5. No materials or fill may be stored within the MTPZ.
6. Equipment or vehicles shall not be operated, parked, repaired, or refueled within the MTPZ.
7. No construction activity, grade changes, surface treatment or excavations of any kind is permitted within the MTPZ without written authorization from the Manager of Urban Forestry or designate.
8. A laminated Minimum Tree Protection Zone sign (See Detail TP-3 – Minimum Tree Protection Zone Sign) must be attached to the side of the Tree Protection where it will be visible by persons entering the site. Minimum size must be 10"x14".

Detail TP-2 – Root Pruning Detail



NOTE:
For excavations perpendicular to to the curbing (ie. sidewalk, curbing, water or sewer laterals renewal)

(a) The contractor is to use a trench box to minimize the width of the open cut.
(b) When the lateral replacement is within the Tree Protection Zone of a tree, the contractor is to complete the works using trenchless technologies.

Tree Protection and Preservation
Specification No.: SS12A

1. Scope

This specification describes the measures required to protect trees not designated for removal for all work on public property within the City of Burlington and for those situated on private property within the City's Urban Planning Area Boundary.

2. Definitions

For the purpose of this specification, the following definitions apply:

a) Certified Arborist:
An arborist certified by the International Society of Arboriculture (ISA) who has a diploma (minimum) in arboriculture or urban forestry. They may be required to provide their ISA Certification number. The arborist must have minimum job experience of at least 6 years in Tree Protection and Mitigation;
b) Barrier:
A fence placed around a single tree or group of trees to protect them from removal and injury;
c) Dripline:
The location on the ground surface directly beneath the theoretical vertical line from the tips of the outermost branches of the trees.

3. Application of Policy

a) Tree protection measures are required for City trees and other trees protected by City Tree by-law 068-2013 (as amended), and those privately-owned trees protected by the Private Tree By-law 02-2020 (as amended);
b) All trees situated on City property are protected under provisions of the City Tree By-law (068-2013).
c) Trees that are of permittable size situated on private property are protected under the provisions of the Private Tree By-law (02-2020);
d) Trees protected by the City Tree By-law (068-2013) may not be removed, injured or destroyed in any way without authorization from the Manager of Urban Forestry or designate. Note that the term "tree" refers to all parts of the tree, including all roots. In certain cases, City Council approval will be required pursuant to the City Tree By-law (068-2013). Trees protected by the Private Tree By-law (02-2020) may not be injured or destroyed without a permit;
e) The specifications set out in this policy shall be the standard specifications for tree protection measures during construction whenever tree protection measures are required by the City and in every instance where construction activities may result in damage to trees;
f) Higher standards of tree protection may be imposed where warranted in the opinion of the Manager of Urban Forestry or designate for municipal trees and for private trees with regard to the size, variety, location, and health of the tree and any circumstances surrounding the construction which may pose a particular hazard to the tree;
g) Lesser standards of tree protection shall only be permitted on the recommendation of a Certified Arborist (as defined in this policy) and with the written consent of the Manager of Urban Forestry or designate; and
h) Anyone failing to adhere to the tree protection policies and specifications outlined below will be financially responsible for any resulting damage to trees.

4. General Policy

Construction activities near trees may result in injury to the trunk, limbs or roots of trees causing damage or death of the tree. In order to prevent such damage:

a) Trees within or adjacent to a construction area must be protected during construction by means of a barrier surrounding the Minimum Tree Protection Zone (MTPZ) as outlined in Sections 5 & 6 of this standard specification;

b) Activities which are likely to injure or destroy the tree are not permitted within the MTPZ. Equipment or vehicles shall not be operated, parked, repaired or refueled within the dripline of trees;
c) Tree pruning or root cutting of City owned trees is to be done in accordance with Section 8 of this specification;
d) No objects may be attached to trees protected by the City Tree by-law without written authorization by the City. Construction material, supplies, or equipment and earth shall not be stockpiled within the dripline of any tree;
e) No City tree or tree protected by the City Tree by-law may be removed without the written permission of the Manager of Urban Forestry or designate; and
f) Exposed roots from excavation must be covered with soil, mulch or burlap and watered within 24 hours of exposure to prevent drying out.

5. The Minimum Tree Protection Zone (MTPZ)

The following is a chart showing minimum required distances for determining a Minimum Tree Protection Zone. Some trees and some site conditions may require a larger Minimum Tree Protection Zone at the discretion of the City.

Table 1 – Minimum Tree Protection Zones

Trunk Diameter (DBH) [2]	Minimum Tree Protection Zone (MTPZ) Distances Required [3]	Critical Root Zone (CRZ) Distances Required [3&4]
< 10 cm	1.8 m	1.8 m
11 - 40 cm	2.4 m	4.0 m
41 - 50 cm	3.0 m	5.0 m
51 - 60 cm	3.6 m	6.0 m
61 - 70 cm	4.2 m	7.0 m
71 - 80 cm	4.8 m	8.0 m
81 - 90 cm	5.4 m	9.0 m
91 - 100+ cm	6.0 m	10.0 m

NOTES:

[1] The roots of a tree can extend from the trunk to approximately 2-3 times the distance of the drip line.
[2] Diameter at breast height (DBH) measurement of tree trunk taken at 1.4 metres above ground.
[3] Minimum Tree Protection Zone and Critical Root Zone distances are to be measured from the outside edge of the tree base towards the drip line and may be limited by an existing paved surface, provided the existing paved surface remains intact throughout the construction work and is subject to Section 6 of this specification.
[4] Where work is being performed beyond the Minimum Tree Protection Zone but within the Critical Root Zone the works are subject to Section 8 of this specification.

6. Tree Protection Barriers

Trees within Minimum Tree Protection Zones shall be protected by means of a "tree protection barrier" meeting the following specifications:

a) The required barrier is a 1.2 metre (4 ft) high orange plastic web snow fencing on 2" x 4" frame. Where orange plastic web snow fencing creates a restriction to sightlines, page wire fencing with reflective tape can be used.
b) Tree protection barriers are to be erected prior to the commencement of any construction or grading activities on the site and are to remain in place throughout the entire duration of the project. The barriers shall be maintained erect and in good repair throughout the duration of construction operations with breaks and unsupported sections repaired immediately. Tree protection may be not be removed prior to the completion of construction without written authorization from the Manager of Urban Forestry or designate.
c) All supports and bracing used to safely secure the barrier should be located outside the MTPZ. All supports

and bracing should minimize damage to roots.
d) Where some fill or excavated material must be temporarily located near a MTPZ, a wooden barrier with silt fencing must be used to ensure no material enters the MTPZ.
e) No materials or fill may be stored within the MTPZ.
f) Equipment or vehicles shall not be operated, parked, repaired, or refueled within the MTPZ.
g) No construction activity, grade changes, surface treatment or excavations of any kind is permitted within the MTPZ without written authorization from the Manager of Urban Forestry or designate.
h) A laminated Minimum Tree Protection Zone sign (see attached) must be attached to the most visible side of the Tree Protection, where it will be visible by those persons entering the site. Minimum size must be 10"x14".

7. Tree Removal and Relocation

Any requests for removal, cutting, pruning or relocating a tree must be made in writing to the City. If approval is granted for removal of a tree, the contractor will assume all costs involved. In most instances tree replacement or compensation will be required.

8. Site Services or Excavations within the Minimum Tree Protection Zone

It is recognized that there are cases where trees are growing overtop existing underground utilities that may require inspection and/or new installation. While the guidelines in this standard specification still apply, in these cases some modification to the Minimum Tree Protection Zone, in addition to pre-construction pruning, may be required where work within or near the MTPZ is approved by the Manager of Urban Forestry or designate. The objective is to avoid severance of anchor roots and or major branches and minimize damage to the tree(s) and to maintain the natural form of the crown.

a) Above ground clearance for overhanging branches in the work zone must be anticipated. The contractor is required to have a City approved tree service raise the crown of all branches to provide adequate clearance for construction equipment. The cost of above ground pre-construction pruning is to be borne by the party that requires the work to be completed.
b) When excavation is required for inspection (only) of private water and sanitary lateral connections at the property line, are within the limits of the MTPZ and the CRZ and have the potential to damage tree roots, excavation must be completed by a qualified arborist or under an arborist's supervision using a hydro vacuum unit or air powered soil excavation tools in order to preserve the integrity of the tree's roots. When new private water and sanitary lines must be installed, and there is not a suitable location outside of the MTPZ and the CRZ, directional micro tunneling and boring is the preferred option for installation within the MTPZ and CRZ.
c) When any site works, are within the limits of the MTPZ and the CRZ and have the potential to damage tree roots, root pruning using a hydro vacuum unit or air powered soil excavation tools is acceptable, provided it is operated by a qualified arborist or under an arborist's supervision, and completed to a depth of 300mm. Roots are to be cut a maximum of 150 mm from the edge of excavation (grading or removals). The limit of excavation, grading or removals is to be minimized to the greatest extent possible and is to include the use of excavation shoring, smaller excavation equipment or rubber-tired machines. See Detail TP-2 (attached as an appendix) for further information.

No	Revision	By	Yr Mo Da
2	Issued for Submisson	MB	25 05 09
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104 PLAINS ROAD EAST

MIURA DEVELOPMENT GROUP
CITY OF BURLINGTON

TREE PRESERVATION DETAILS AND NOTES

Drawn by	FC	Scale	1:200
Checked by	SKC	Plot Date	2025-05-08
Approved by	HN	Project	2535

TP2
Drawing No.