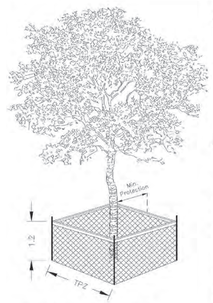


1 V100 TREE PRESERVATION HOARDING DETAIL

Tree Protection and Preservation Specification No.: SS12A

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

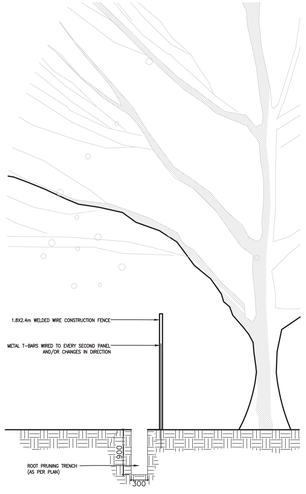
1. The required barrier is a 1.2 metre (4 ft) high orange plastic web snow fencing on 2" x 4" frame. Where orange plastic web snow fencing creates a restriction to sightlines, page wire fencing with reflective tape can be used.
2. Tree protection barriers are to be erected prior to the commencement of 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 City Arborist.
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 City Arborist.
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".

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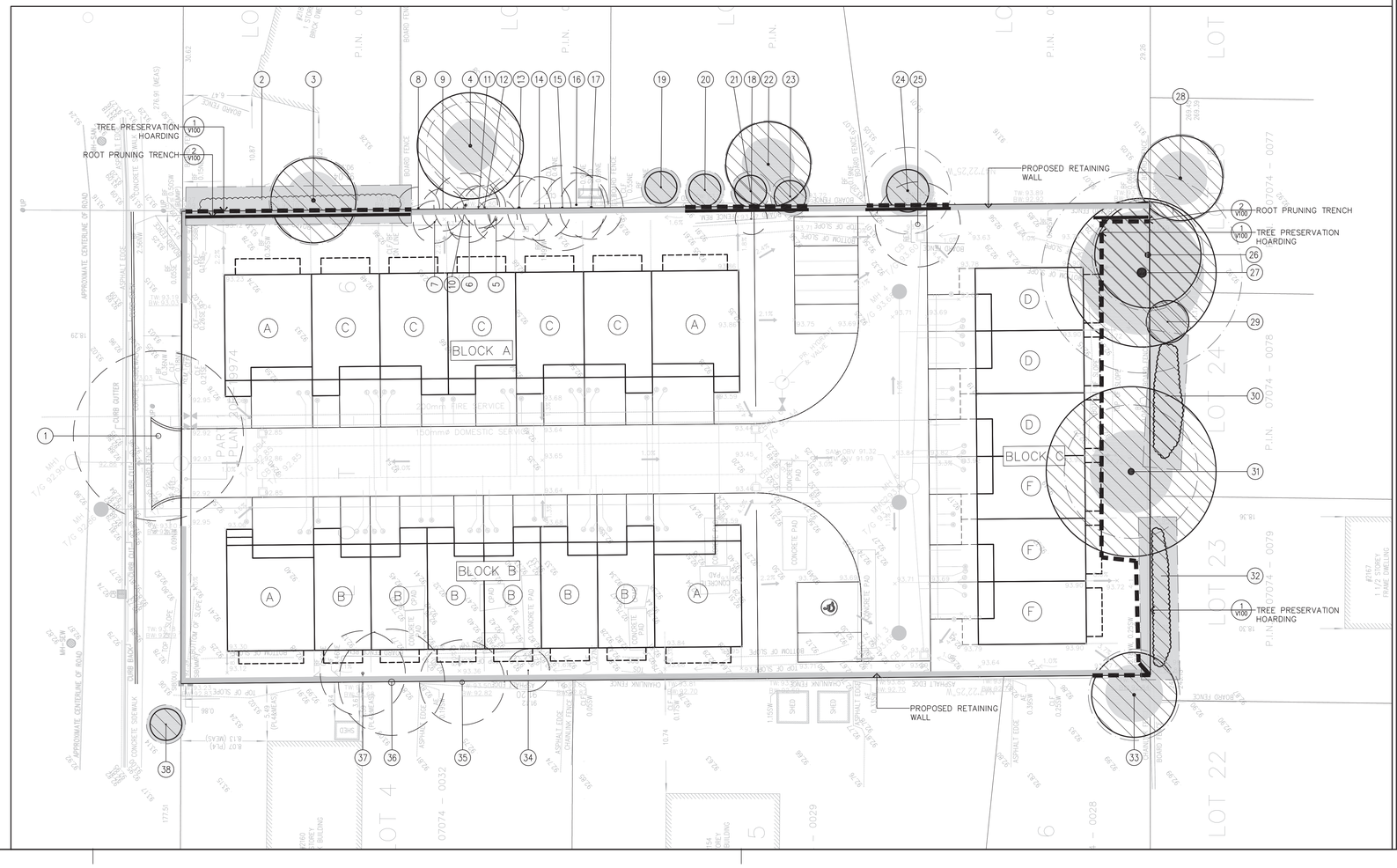
EXISTING TREE INVENTORY

KEY	TAG NO.	SPECIES	BOTANICAL	DBH (centimetres)	CROWN (metres)	HEALTH G/F/P	CONDITION %	STRUCTURE	COMMENTS	PRESERVATION DIRECTION	OWNER	MIN. TPZ (metres)	% OF TPZ IMPACT (metres)	CRZ (metres)	% OF CRZ IMPACT (metres)	KEY
1		Hackberry	*Celtis occidentalis*	48	16	Fair - Poor	60%	Asymmetrical	Minor deadwood, Broken Branches, Street Tree, Adjacent to Utility Pole	Remove	Municipal	2.4	100.00%	4.0	100.00%	1
2		White Cedar Hedge	*Thuja occidentalis*	whip-10	2	Good	85%	Hedge	Branching to Grade, Adjacent to Fence, Crowded by Adjacent Tree.	Preserve	Boundary	1.8	36.08%	1.8	36.08%	2
3		Austrian Pine	*Pinus abies*	33	8	Poor	25%	Irregular	Broken Leader, Raised Canopy, Minor Deadwood	Preserve	Neighbour	2.4	23.54%	4.0	35.79%	3
4		Norway Maple	*Acer platanoides*	25	10	Good	85%	Asymmetrical	Slight Lean, Included Bark, Minor Deadwood	Preserve	Neighbour	2.4	0.00%	4.0	0.00%	4
5	401	White Mulberry	*Morus alba*	17, 18	4	Fair	60%	One Sided	Multi-stem, Crowded by Adjacent Tree, Broken Branches	Remove	Subject Site	2.4	100.00%	4.0	100.00%	5
6	402	White Mulberry	*Morus alba*	11	4	Fair	60%	One Sided	Crowdec by Adjacent Tree, Broken Branches	Remove	Subject Site	2.4	100.00%	4.0	100.00%	6
7	403	White Mulberry	*Morus alba*	9, 13	4	Fair	60%	One Sided	Broken Branches, Crowded by Adjacent Tree, Multi-stem	Remove	Subject Site	2.4	100.00%	4.0	100.00%	7
8	404	Siberian Elm	*Ulmus pumilla*	15	4	Poor	25%	Irregular	Adjacent to Fence, Minor Deadwood, Crowded by Adjacent Tree	Remove	Neighbour	2.4	100.00%	4.0	100.00%	8
9	405	Siberian Elm	*Ulmus pumilla*	17	4	Poor	25%	Irregular	Epicormic Growth, Crowded by Adjacent Tree, Adjacent to Fence	Remove	Boundary	2.4	100.00%	4.0	100.00%	9
10	406	Siberian Elm	*Ulmus pumilla*	19	6	Poor	25%	Irregular	Poor Pruning, Adjacent to Fence, Crowded by Adjacent Tree	Remove	Neighbour	2.4	100.00%	4.0	100.00%	10
11	407	Siberian Elm	*Ulmus pumilla*	11	4	Poor	25%	Irregular	Epicormic Growth, Crowded by Adjacent Tree, Adjacent to Fence	Remove	Neighbour	2.4	100.00%	4.0	100.00%	11
12	408	Siberian Elm	*Ulmus pumilla*	12	4	Poor	25%	Irregular	Crowdec by Adjacent Tree, Epicormic Growth, Adjacent to Fence	Remove	Neighbour	2.4	100.00%	4.0	100.00%	12
13	409	Siberian Elm	*Ulmus pumilla*	22	6	Poor	25%	Irregular	Poor Pruning, Adjacent to Fence, Crowded by Adjacent Tree	Remove	Boundary	2.4	100.00%	4.0	100.00%	13
14	410	White Mulberry	*Morus alba*	16	6	Poor	25%	Irregular	Leaning, Multi-stem, Crowded by Adjacent Tree, Epicormic Growth, Adjacent to Fence	Remove	Boundary	2.4	100.00%	4.0	100.00%	14
15	411	Siberian Elm	*Ulmus pumilla*	11, 14, 15, 18	8	Poor	25%	Irregular	Vine Entangled, Adjacent to Fence, Crowded by Adjacent Tree, Adjacent to Fence	Remove	Boundary	2.4	100.00%	4.0	100.00%	15
16	412	Siberian Elm	*Ulmus pumilla*	15	6	Poor	25%	Irregular	Epicormic Growth, Crowded by Adjacent Tree, Adjacent to Fence	Remove	Neighbour	2.4	100.00%	4.0	100.00%	16
17	413	Siberian Elm	*Ulmus pumilla*	19	6	Poor	25%	Irregular	Poor Pruning, Adjacent to Fence, Crowded by Adjacent Tree	Remove	Boundary	2.4	100.00%	4.0	100.00%	17
18	414	Manitoba Maple	*Acer negundo*	13, 14, 15	5	Fair	60%	Multi-Stem	Adjacent to Fence, Vine Entangled, Epicormic Growth	Remove	Subject Site	2.4	100.00%	4.0	100.00%	18
19		Columnar Red Maple	*Acer rubrum*	10	3	Good	85%	Narrow	Minor Deadwood, Adjacent to Fence	Preserve	Neighbour	1.8	0.00%	1.8	0.00%	19
20		Columnar Red Maple	*Acer rubrum*	10	3	Good	85%	Narrow	Adjacent to Fence, Minor Deadwood	Preserve	Neighbour	1.8	3.12%	1.8	3.12%	20
21		Columnar Red Maple	*Acer rubrum*	10	3	Good	85%	Narrow	Crowded by Adjacent Tree, Minor Deadwood, Adjacent to Fence	Preserve	Neighbour	1.8	5.93%	1.8	5.93%	21
22		Saucer Magnolia	*Magnolia x soulangeana*	20	8	Good	85%	Asymmetrical	Adjacent to Fence, Minor Deadwood, Crowded by Adjacent Tree	Preserve	Neighbour	2.4	0.00%	4.0	0.35%	22
23		Columnar Red Maple	*Acer rubrum*	10	3	Good	85%	Narrow	Minor Deadwood, Crowded by Adjacent Tree, Adjacent to Fence	Preserve	Neighbour	1.8	19.77%	1.8	19.77%	23
24		White Spruce	*Picea glauca*	17	4	Good	85%	Pyramidal	Adjacent to Fence, Raised Canopy, Crowded by Adjacent Tree	Preserve	Neighbour	2.4		4.0		24
25	415	Hackberry	*Celtis occidentalis*	44	8	Fair	60%	Asymmetrical	Minor Deadwood, Crowded Branching, Poor Pruning	Remove	Subject Site	3.0	100.00%	5.0	100.00%	25
26	416	Black Walnut	*Juglans nigra*	50	10	Fair	60%	Asymmetrical	Crowdec by Adjacent Tree, Adjacent to Fence, Broken Branches, Minor Deadwood, Vine Entangled, Adjacent to Overhead Wires	Preserve	Boundary	3.0	0.23%	5.0	11.01%	26
27	417	Black Walnut	*Juglans nigra*	69, 88	14	Good	85%	Asymmetrical	Multi-Stem, Included Bark, Vine Entangled, Crowded by Adjacent Tree, Adjacent to Fence, Minor Deadwood, Broken Branches, Adjacent to Overhead Wires	Preserve	Subject Site	5.4	14.67%	9.0	26.58%	27
28		Honey-locust	*Gleditsia triacanthos*	24	8	Fair	60%	Asymmetrical	Minor Deadwood, Adjacent to Overhead Wires, Crowded by Adjacent Tree	Preserve	Neighbour	2.4	0.00%	4.0	0.28%	28
29		Yew	*Taxus canadensis*	whip-10	4	Fair	60%	Group	Crowdec by Adjacent Tree, Crowded Branching, Adjacent to Overhead Wires, Adjacent to Fence	Preserve	Neighbour	1.8	0.00%	1.8	0.00%	29
30		White Cedar Hedge	*Thuja occidentalis*	whip-10	3	Fair	60%	Hedge	Dieback in Lower Branches, Adjacent to Overhead Wires, Vine Entangled, Adjacent to Fence	Preserve	Neighbour	2.4	0.00%	4.0	0.00%	30
31	418	Red Oak	*Quercus rubra*	57	16	Fair	60%	Asymmetrical	Broken Branches, Minor Deadwood, Slight Lean	Preserve	Subject Site	3.6	8.65%	6.0	22.72%	31
32		Emerald Cedar Hedge	*Thuja occidentalis 'Smaragd'*	whip-10	2	Good	85%	Hedge	Adjacent to Fence, Branching to Grade, Adjacent to Overhead Wires	Preserve	Neighbour	1.8	18.76%	1.8	18.76%	32
33		White Mulberry	*Morus alba*	30	8	Fair	60%	Asymmetrical	Crowdec Branching, Adjacent to Overhead Wire, Adjacent to Fence	Preserve	Neighbour	2.4	12.16%	4.0	17.97%	33
34		White Mulberry	*Morus alba*	whip-10	4	Fair	60%	Group	Epicormic Growth, Branching to Grade, Crowded Branch	Remove	Subject Site	1.8	100.00%	1.8	100.00%	34
35		Sugar Maple	*Acer saccharum*	43	8	Poor	25%	Asymmetrical	Slight Lean, Adjacent to Parking Lot, Minor Deadwood, Crowded Branching, Pruned Roots Visible	Remove	Boundary	3.0	100.00%	5.0	100.00%	35
36		Butternut (Cultivated)	*Juglans cinerea (cultivated)*	60	10	Poor	25%	Irregular	Dieback in Canopy, Declining, Major Deadwood, Cankers, High Crown, Signs of Decay, Pruned Roots Visible	Remove	Boundary	3.6	100.00%	6.0	100.00%	36
37		White Cedar Hedge	*Thuja occendentalis*	10-23	8	Fair	60%	Group	Branching to Grade, Vine Entangled, Minor Deadwood	Remove	Subject Site	2.4	100.00%	4.0	100.00%	37
38		Cherry	*Prunus spp.*	7	3	Good	85%	Immature	Epicormic Growth, Crowded Branching Slight Lean	Preserve	Municipal	1.8	0.00%	1.8	0.00%	38

TREE INVENTORY LIST



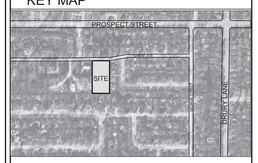
2 V100 ROOT PRUNING TRENCH DETAIL



GENERAL NOTES

- VERIFY ALL DIMENSIONS.
- DO NOT SCALE DRAWINGS.
- REPORT ANY DISCREPANCIES, DISCOVERED ERRORS, OR OMISSIONS TO THE LANDSCAPE ARCHITECT BEFORE PROCEEDING.
- IT IS ADVISED THAT CONTRACTORS CONTACT THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION TO ENSURE THE USE OF THE LATEST REVISED DRAWINGS.
- DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE LANDSCAPE ARCHITECT.

KEY MAP



LEGEND

- TREE PROTECTION HOARDING
- ROOT PRUNING TRENCH
- EXISTING TREES TO BE PRESERVED
- MINIMUM TREE PROTECTION ZONE (TPZ) TREES TO BE PRESERVED
- EXISTING TREES TO BE REMOVED
- CRITICAL ROOT ZONE
- MINIMUM TREE PROTECTION ZONE (TPZ)
- VEGETATION NUMBER KEY
- EXISTING TREE GROUPINGS TO BE PRESERVED
- EXISTING TREE GROUPINGS TO BE REMOVED

MATTHEW C. GEHRES
International Society of Arboriculture
Certified Arborist #ON-1114A
Date: November 15th, 2024

No.	DATE.	REVISION.	BY.
X	X	X	X

It is the responsibility of the Contractor and/or Owner to ensure that the drawings with the latest revisions are used for construction.

SBK
5770 HURONTARIO STREET, SUITE 320
MISSISSAUGA, ONTARIO, L5R 3G5
T: 416.695.4949 F: 905.712.3101
WWW.STRYBOS.COM
STRYBOS BARRON KING
LANDSCAPE ARCHITECTURE

PROJECT.

NORTHERN CARDINAL HOMES
2170 GHENT AVENUE
BURLINGTON, ONTARIO

DRAWING TITLE.

TREE INVENTORY & PRESERVATION PLAN

SCALE. 1:200	PROJECT No. 6035
DATE. AUGUST 02 2024	
DRAWN BY. S.D.	DRAWING No. V100
CHECKED BY. A.J.	