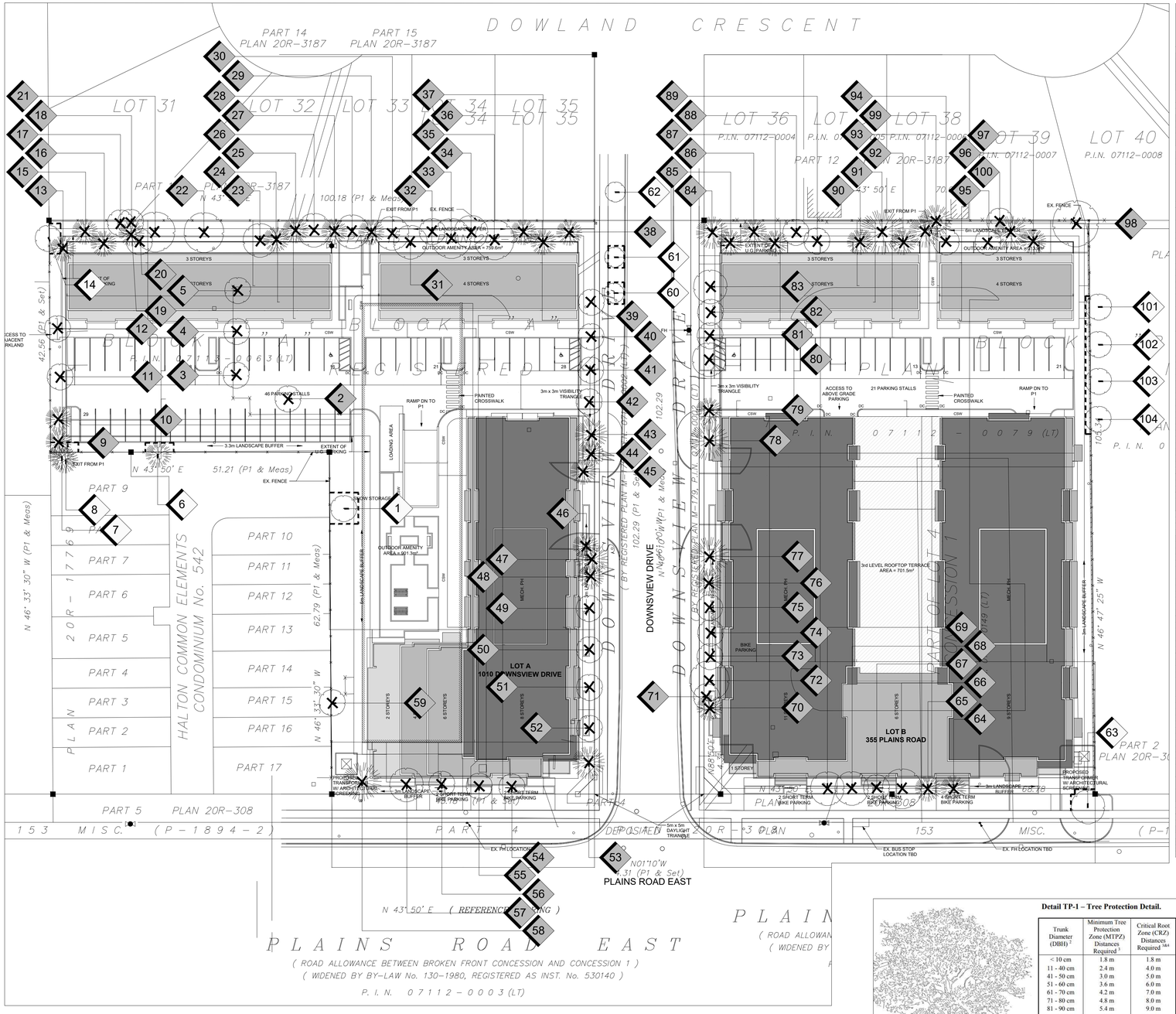
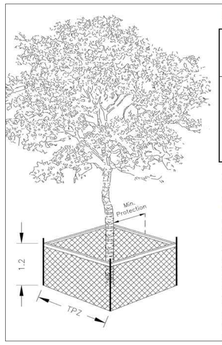


1 TI-1 TREE INVENTORY, REMOVALS, AND PROTECTION PLAN

SCALE: 1:300

Tree No.	Common Name	Botanical Name	DBH (cm)	Canopy Diameter (m)	Condition	Structure	Comments - Condition Related	Recommendation
1	Glenleven Linden	Tilia x flavescens 'Glenleven'	39	11	F	F	Moderate lean	P
2	American Elm	Ulmus americana	12	3	F	F	2 stems, growing in planter box	R
3	Norway Maple	Acer platanoides	14	4	F	F/G	Growing in small opening in asphalt, part of daycare area	R
4	Norway Maple	Acer platanoides	19	6	F	F/G	Growing in small opening in asphalt, part of daycare area	R
5	Norway Maple	Acer platanoides	10	3	D	P	Tree is 100% dead	R
6	Black Walnut	Juglans nigra	~28	13	F	F/G	On neighbouring property. Growing adjacent to wood fence	P
7	Norway Spruce	Picea abies	~22	7	F	F	Mild/moderate lean, on neighbouring property	P
8	Norway Spruce	Picea abies	~35	8	F/G	F/G	On neighbouring property	P
9	Colorado Spruce	Picea pungens	21	6	F/G	F	Mild lean	R
10	Colorado Spruce	Picea pungens	39	9	F/G	F/G		R
11	Flowering Crabapple Tree	Malus Sp.	16	5	F/P	F/P	Profusion of water shoots, Internal rot suspected	R
12	Black Walnut	Juglans nigra	24	9	F/G	F/G		R
13	Colorado Spruce	Picea pungens	26	8	F/P	F	Mild lean	R
14	Black Walnut	Juglans nigra	20	7	F	F/P	Growing in chain link fence	P
15	Norway Spruce	Picea abies	34	10	F	F/G		R
16	Norway Spruce	Picea abies	26	9	F	F		R
17	Horse Chestnut	Aesculus hippocastanum	~15	10	F	P	Signs of rot at main crotch where co-dominant leader has failed. Growing between chain link fence and wood fence	RX
18	Manitoba Maple	Acer negundo	~20	5	F/P	P	Signs of rot at main crotch where co-dominant leader has failed. Growing between chain link fence and wood fence	RX
19	Norway Spruce	Picea abies	14	6	F	F		R
20	Norway Maple	Acer platanoides	31	11	F	F	Crown moderately imbalanced due to adjacent trees	R
21	Silver Maple	Acer saccharinum	57	22	F	F/P	Significant rot evident at main union, one stem has failed in the past	R
22	Silver Maple	Acer saccharinum	67	21	F	F	4 stems	R
23	Norway Maple	Acer platanoides	41	16	F/P	F/P	obvious signs of rot in trunk and some main limbs	R
24	Norway Spruce	Picea abies	28	6	F	F		R
25	Norway Spruce	Picea abies	36	8	F	F/G		R
26	Norway Maple	Acer platanoides	48	23	F	F	Some poor unions in canopy	R
27	Norway Spruce	Picea abies	30	9	F	F	High canopy is more susceptible to wind throw	R
28	Norway Maple	Acer platanoides	42	20	F	F		R
29	Norway Spruce	Picea abies	27	11	F	F		R
30	Norway Maple	Acer platanoides	37	18	F	F		R
31	Silver Maple	Acer saccharinum	44	23	F/P	P	2 Stem at base, Tree is in decline, significant rot and deadwood in canopy with multiple failures	R
32	Silver Maple	Acer saccharinum	37	19	F/P	P	2 stems at base, rot at base, co dominant stem failed	R
33	Silver Maple	Acer saccharinum	54	18	F/P	P	Single stem remains, rot at base, co dominant stem failed	R
34	Silver Maple	Acer saccharinum	45	25	F/P	P	2 stem at base, multiple past failures in upper canopy	R
35	Silver Maple	Acer saccharinum	50	21	F/P	P	2 stem at base, rot in trunk, multiple past failures in upper canopy	R
36	Douglas Fir	Pseudotsuga menziesii	24	7	F	F/P	Mild lean	R
37	Douglas Fir	Pseudotsuga menziesii	33	13	F	F	Mild bow in trunk, mild lean	R
38	Douglas Fir	Pseudotsuga menziesii	29	11	F	F	Mild/moderate lean	R
39	Norway Maple	Acer platanoides	30	13	F	F	Mild/moderate deadwood in canopy	R
40	Norway Maple	Acer platanoides	35	14	F	F/G		R
41	Norway Maple	Acer platanoides	32	12	F	F		R
42	Norway Maple	Acer platanoides	29	10	F	F		R
43	Colorado Spruce	Picea pungens	46	8	F	F/G		R
44	Colorado Spruce	Picea pungens	37	6	F	F		R
45	Colorado Spruce	Picea pungens	27	3	P	F	Tree is in declining health	R
46	Colorado Spruce	Picea pungens	38	5	P	F	Bow in trunk, Tree is in declining health	R
47	Colorado Spruce	Picea pungens	42	7	F	F		R
48	Norway Spruce	Picea abies	34	6	F	F	Mild/moderate needle loss	R
49	Norway Maple	Acer platanoides	29	8	F	F	Mild/moderate deadwood in canopy	R
50	Norway Maple	Acer platanoides	31	9	F	F		R
51	Norway Maple	Acer platanoides	22	7	F/G	F		R
52	Norway Maple	Acer platanoides	36	9	F/G	F	Slightly imbalanced crown	R
53	Colorado Blue Spruce	Picea pungens var. glauca	42	11	F	F	2 stems at base	R
54	Norway Maple	Acer platanoides	27	12	F	F		R
55	Norway Maple	Acer platanoides	30	13	F	F	Mild/moderate deadwood in canopy	R
56	Norway Maple	Acer platanoides	37	15	F	F	Mild/moderate deadwood in canopy	R
57	Norway Maple	Acer platanoides	42	16	F	F		R
58	Colorado Blue Spruce	Picea pungens var. glauca	50	13	F	F/G		R
59	Siberian Elm	Ulmus pumila	24	10	F	F/P	3 stems, adjacent to wood fence, self-seeded, volunteer tree	R
60	Autumn Blaze Maple	Acer freemanii 'Jeffersred'	5	1	F/G	F/G		P
61	Autumn Blaze Maple	Acer freemanii 'Jeffersred'	8	2	F/G	G		P
62	Autumn Blaze Maple	Acer freemanii 'Jeffersred'	9	3	F/G	G		P
63	Flowering Crabapple Tree	Malus Sp.	43	7	F	F	Mild/moderate deadwood in canopy	P
64	Colorado Blue Spruce	Picea pungens var. glauca	37	5	F	F	Moderate needle loss at branch tips	R
65	Colorado Blue Spruce	Picea pungens var. glauca	33	5	F	F		R
66	London Plane Tree	Platanus x acerifolia	54	20	F/G	F/G		R
67	London Plane Tree	Platanus x acerifolia	38	18	F/G	F/G		R
68	London Plane Tree	Platanus x acerifolia	43	19	F/G	F		R
69	London Plane Tree	Platanus x acerifolia	49	20	F	F	Some rot suspected in trunk, some developing structural issues	R
70	Fraser Fir	Abies fraseri	14	5	F	F	Competing with adjacent tree	R
71	London Plane Tree	Platanus x acerifolia	15	4	F/G	F	Self-seeded, Competing with adjacent tree	R
72	London Plane Tree	Platanus x acerifolia	53	25	F/G	G		R
73	London Plane Tree	Platanus x acerifolia	23	6	F	F	Small/elevated crown due to adjacent trees	R
74	London Plane Tree	Platanus x acerifolia	20	21	F/G	F/G		R
75	London Plane Tree	Platanus x acerifolia	36	18	F/G	F/P	Imbalanced crown due to adjacent trees	R
76	Colorado Spruce	Picea pungens	35	7	F	F		R
77	Colorado Spruce	Picea pungens	53	9	F	F/G		R
78	Colorado Spruce	Picea pungens	55	9	F/P	F	Top is dying back, tree is in with beginning stages of decline	R
79	Colorado Spruce	Picea pungens	38	6	F	F		R
80	London Plane Tree	Platanus x acerifolia	43	25	F/G	F		R
81	London Plane Tree	Platanus x acerifolia	27	17	F	F	Imbalanced crown due to adjacent trees	R
82	London Plane Tree	Platanus x acerifolia	34	21	F/G	F	Forked leader in canopy	R
83	London Plane Tree	Platanus x acerifolia	43	23	F/G	F		R
84	Balsam Fir	Abies balsamea	41	12	F/G	F	Mild bow in trunk	R
85	Balsam Fir	Abies balsamea	35	9	F	P	Tree has been topped (possible past structural failure)	R
86	Balsam Fir	Abies balsamea	34	13	F	F/G		R
87	Balsam Fir	Abies balsamea	33	11	F	F	Moderate 'v' bow in trunk	R
88	Red Maple	Acer rubrum	26	16	F	F/P	2 stems at base poor form	R
89	Red Maple	Acer rubrum	31	14	F	F/P	Multiple stems with signs of rot, poor form	R
90	White Spruce	Picea glauca	39	16	F	F/G		R
91	White Spruce	Picea glauca	65	21	F/G	F		R
92	White Spruce	Picea glauca	37	14	F/P	F	Tree is in decline	R
93	White Spruce	Picea glauca	40	16	F	F	Moderate bow in trunk	R
94	Red Maple	Acer rubrum	17	12	F/G	F/G		R
95	Red Maple	Acer rubrum	22	15	F/G	F/G		R
96	Colorado Spruce	Picea pungens	49	16	F	F		R
97	Colorado Spruce	Picea pungens	28	8	F	F/P	Moderate bow in trunk	R
98	Manitoba Maple	Acer negundo	~60	26	F	P	Moderate/significant lean, with developing structural issues	R
99	Manitoba Maple	Acer negundo	~32	12	F	F/P	Tree is between wood fences, 2 stem, Appears to be self seeded	R
100	Manitoba Maple	Acer negundo	~14	6	F	P	Tree is between wood fences, Appears to be self seeded	R
101	Autumn Blaze Maple	Acer freemanii 'Jeffersred'	~14	8	F/G	F/G	On neighbouring property	P
102	Autumn Blaze Maple	Acer freemanii 'Jeffersred'	~14	10	F/G	F/G	On neighbouring property	P
103	Autumn Blaze Maple	Acer freemanii 'Jeffersred'	~14	14	F/G	F/G	On neighbouring property	P
104	Autumn Blaze Maple	Acer freemanii 'Jeffersred'	~14	8	F/G	F/G	On neighbouring property	P
Key to Condition Ratings:								
Structure and Health ratings are measured on a scale of Good (G), Fair (F), Poor (P)								
Key to Recommendation Codes:								
P	Retain				R		Remove tree	
					RX		Remove Dead, Dying or Hazard Tree	



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.

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.

2 TI-1 TREE PROTECTION FENCING

LEGEND

- EXISTING DECIDUOUS TREE TO REMAIN
- EXISTING DECIDUOUS TREE TO BE REMOVED (REFER TO ARBORIST REPORT)
- EXISTING CONIFEROUS TREE TO REMAIN
- EXISTING CONIFEROUS TREE TO BE REMOVED (REFER TO ARBORIST REPORT)
- # TREE IDENTIFICATION KEY (TREES TO BE RETAINED)
- # TREE IDENTIFICATION KEY (TREES TO BE REMOVED)
- TREE PROTECTION FENCING PER CITY BURLINGTON STANDARDS

GENERAL NOTES

1. Do not scale the drawings. All dimensions are in millimetres unless noted otherwise.
2. This drawing is to be read in conjunction with the project site plan. landscape plan, and engineering plan.
3. The tree inventory includes assessment of trees >10cm DBH. The trees have been assessed based on species, size and condition.
4. The contractor shall check and verify all existing and proposed grading and conditions on the project and immediately report any discrepancies to the consultant before proceeding with any removals.
5. The contractor is to be aware of all existing and proposed services and utilities. The contractor is responsible for having all underground services and utility lines staked by each agency having jurisdiction prior to commencing work.
6. This drawing is to be used for development approval only.
7. Do not leave any holes open overnight.
8. Keep area outside construction zone clean and useable by others at all times. Contractor shall throughly clean areas surrounding the construction zone at the end of each work day.
9. Contractor to make good any and all damages outside of the development area that may occur as a result of tree removals at no extra cost.
10. This drawing is Copyright MHBC Planning, 2022.

REVISION NO.	DATE	ISSUED / REVISION	BY
2.	MAY 12, 2022	ISSUED FOR SPA	CC
1.	FEBRUARY 03, 2022	ISSUED FOR SPA	CC

MHBC PLANNING URBAN DESIGN & LANDSCAPE ARCHITECTURE
230-7050 WESTON ROAD WOODBRIDGE, ON. L4L 8G7 | P: 905 761 5588 F: 905 761 5589 | WWW.MHBCPLAN.COM

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ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS OALA MEMBER

ISSUED FOR SPA ONLY
NOT FOR CONSTRUCTION

All drawings and specifications are instruments of service and will remain the property of MHBC Planning and must be returned at the completion of the work. This drawing shall not be used for construction purposes unless the drawings are marked 'Issued for Construction' and the professional seal is signed and dated by the landscape architect.

DATE	JANUARY 2022
DRAWN BY	CC
PLAN SCALE	1:400
FILE NO.	20391G
CHECKED BY	N.M.
OTHER	

PROJECT

355 PLAINS ROAD & 1010 DOWNSVIEW DRIVE
BURLINGTON, ON

NORTH

FILE NAME

TREE INVENTORY, PROTECTION, AND REMOVALS

DWG NO.

TI-1