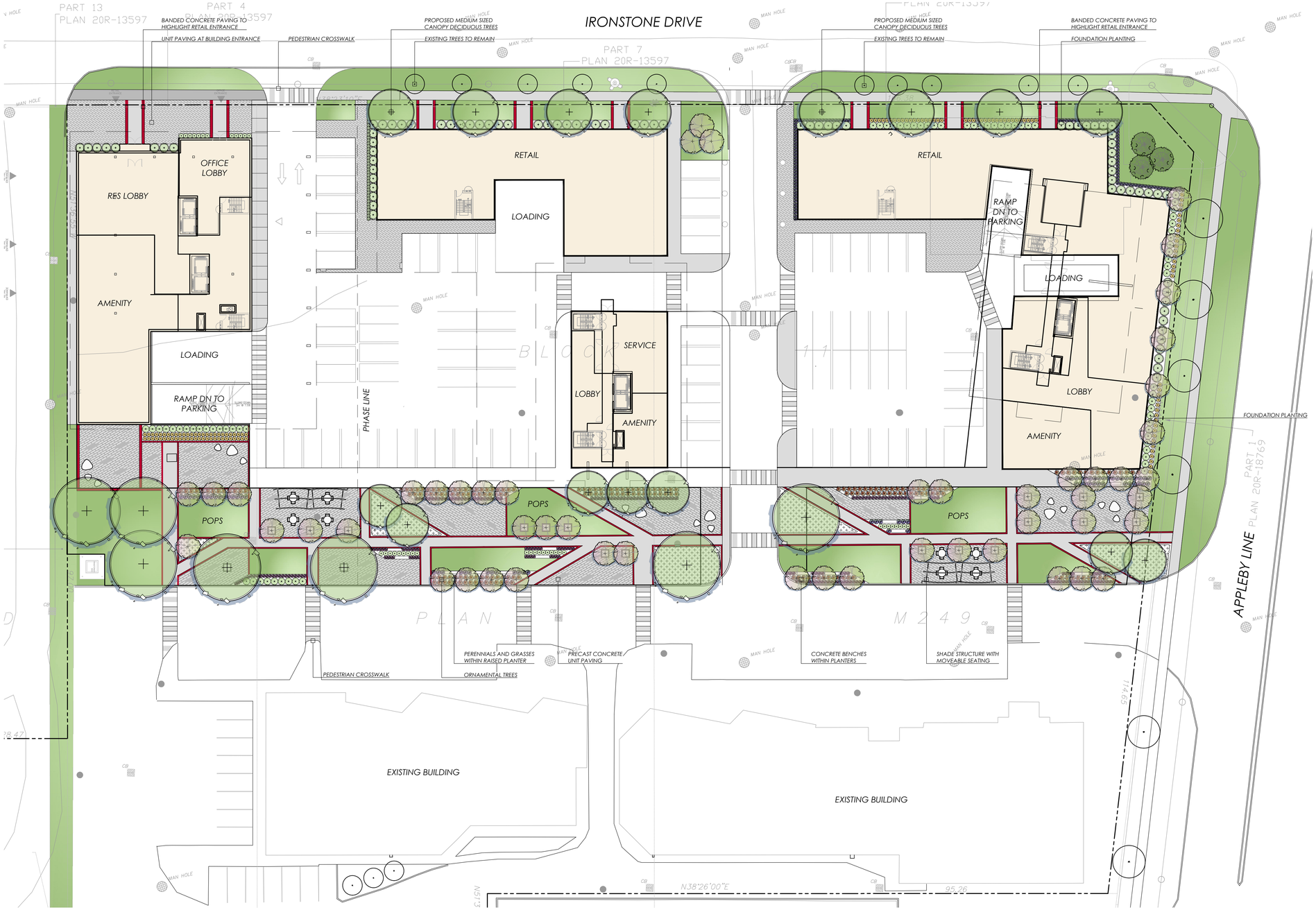
project #: 21-103



KEY MAP - N.T.S.



LEGEND

- property line
- existing tree to remain
- proposed deciduous tree
- proposed shrub
- proposed perennial
- 136.19 existing elevation
- min. 150mm topsoil, fine grade & sod
- C.I.P. concrete
- precast concrete unit pavers

NOT FOR CONSTRUCTION
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REVISIONS/ SUBMISSIONS

#	DATE	DESCRIPTION
1	2021-06-30	Issued for review
2	2021-10-05	Issued for submission

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ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
AMMO PATINKO
OALA
MEMBER

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LJM Developments

MUNICIPALITY
City of Burlington

PROJECT
1860 & 1900 Appleby Line

MUNICIPAL FILE NUMBER

SHEET
Landscape Master Plan

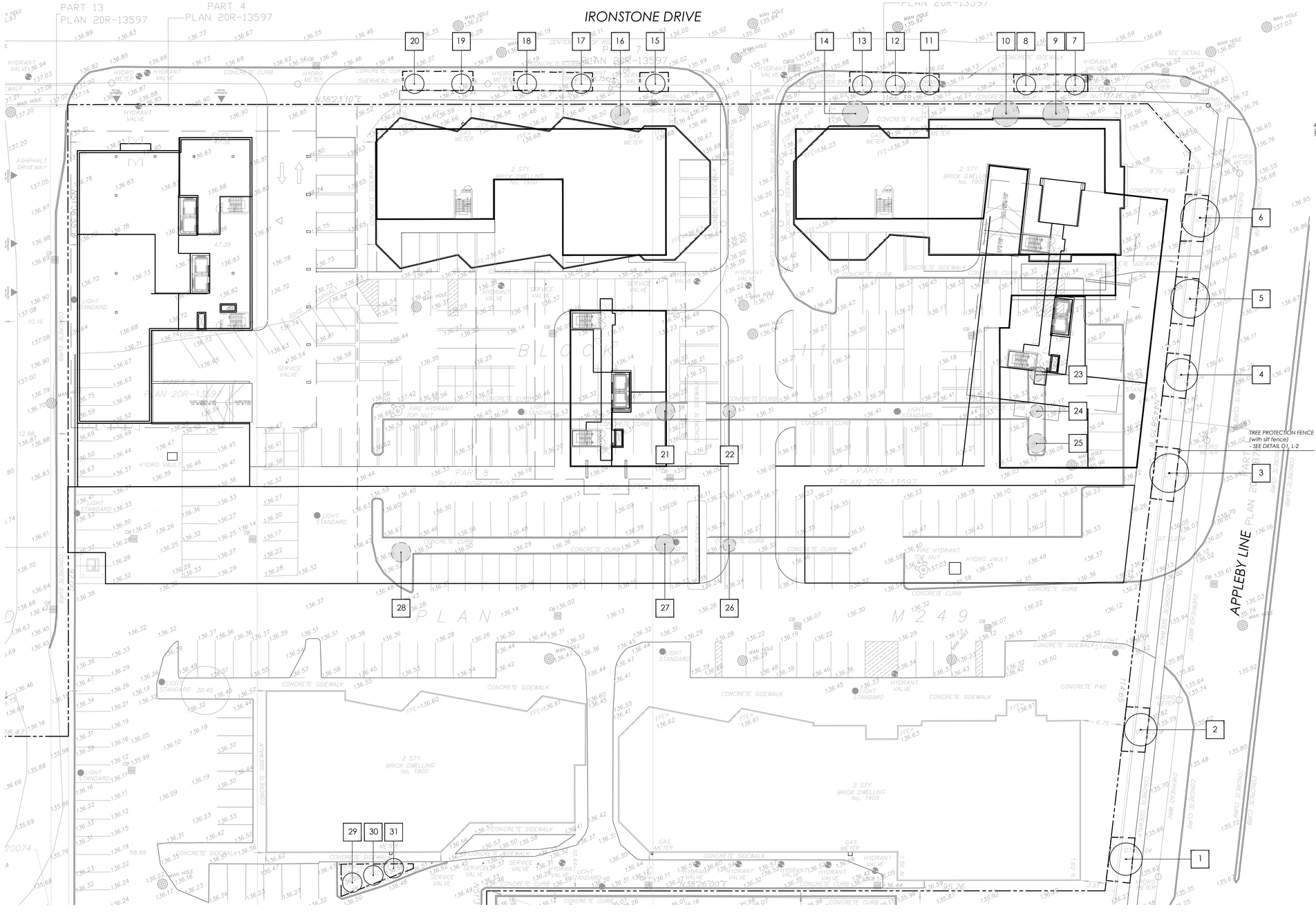
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landscape architecture

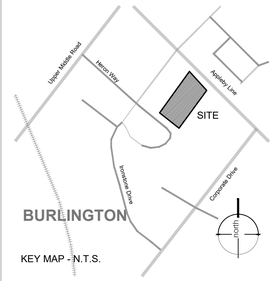
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Hamilton, ON L8P 4B4
t. 905.526.8876
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project #: 21-103



KEY MAP - N.T.S.



KEY MAP - N.T.S.

LEGEND

- property line
- 2 — existing tree number (refer to chart)
- existing vegetation to remain
- existing vegetation to be removed
- 136.19 — existing elevations
- tree protection fence (with silt fence) - see detail D1, L-2

NOT FOR CONSTRUCTION
ISSUED FOR REVIEW & COMMENTS ONLY

NOTE:
Vegetation inventory undertaken by Carleigh Pope, ISA Certified Arborist (ON-2578A) on May 27th, 2021.

REVISIONS/ SUBMISSIONS

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STAMP

ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS — MARIO PATINO — OALA — MEMBER

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MUNICIPALITY
City of Burlington

PROJECT
1860 & 1900 Appleby Line

MUNICIPAL FILE NUMBER

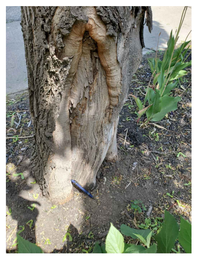
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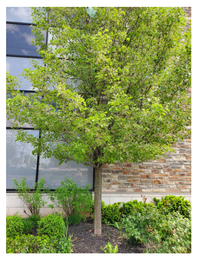
L-1

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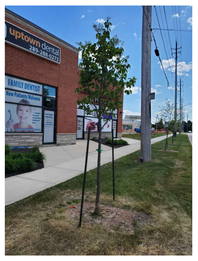
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Tree #1


Tree #1 - healed stem wound


Tree #9


Tree #14

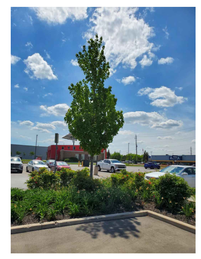


Trees #18-20


Tree #18 - exposed root plate


Tree #21


Tree #26


Tree #28

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project #: 21-103

Tree Protection and Preservation
Specification No.: SS12

Detail TP-1 – Tree Protection Detail

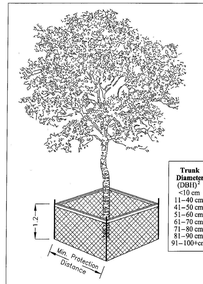


Table 1– Tree Protection Zones

Trunk Diameter (DBH)[1]	Tree Protection Zone (TPZ) Minimum Protection Distances Required[1]	Critical Root Zone (CRZ) Distances Required[1,2,3,4]
<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

TREE PROTECTION BARRIER

1. Tree protection barriers for trees situated on the City road allowance where visibility must be maintained can be 1.2m high and consist of orange plastic web snow fencing on a wood frame of 2" x 4"s, supported on metal "T" bars, 2.0m c/c max. Where orange plastic web snow fencing creates a restriction to sightlines, page wire fencing shall be used.

2. Where some excavate or fill has to be temporarily located near a tree protection barrier plywood must be used to ensure no material enters the Tree Protection Zone.

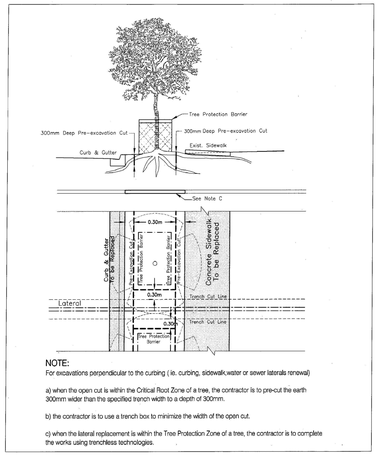
3. All supports and bracing should be outside the Tree Protection Zone. All such supports should minimize damaging roots outside the Tree Protection Barrier.

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

Page 6
March 2011

Tree Protection and Preservation
Specification No.: SS12

Detail TP-2 – Root Pruning Detail



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

a) when the open cut is within the Critical Root Zone of a tree, the contractor is to pre-cut the earth 300mm wider than the specified trench width to a depth of 300mm.

b) the contractor is to use a trench box to minimize the width of the open cut.

c) when the lateral replacement is within the Tree Protection Zone of a tree, the contractor is to complete the works using trenchless technologies.

Page 7
March 2011

NOTES:

1. *The area within the dripline of all existing trees shall be properly protected with temporary fencing.*
2. *The area within the protective fencing shall remain undisturbed with no construction activity, grade changes, surface treatment, compaction, or excavation. Area shall not be used for the storage of building materials or equipment access/storage or project related garbage.*
3. *Tree protection measures shall be installed prior to any demolition, tree removal or construction and shall remain until the completion of fine grading and sodding or seeding.*
4. *Prune all trees for dead, diseased, weak or hazardous branches only, also trim back branches which will interfere with construction, prune for structural restoration where necessary.*
5. *No stockpiles and/or excavated material shall be placed within the tree preservation area.*
6. *No rigging cable shall be wrapped around or installed to trees.*
7. *Where root systems of protected trees are exposed directly adjacent to or damaged by construction work they are to be root pruned and the area back filled with topsoil to prevent root desiccation.*
8. *Any fine grading within the preservation area is to be done by hand. no heavy equipment is permitted within the preservation zone.*
9. *Sediment accumulations to be removed by subdivider/builder when sediment deposits reach within 150mm of top of filter fabric barrier.*
10. *A copy of the approved and signed Vegetation Management Plan will be on site for the duration of construction and available upon request.*
11. *This detail does not represent any particular tree species.*

EXISTING VEGETATION IDENTIFICATION TABLE

TREE/UNIT NO.	SPECIES (COMMON NAME)	SPECIES (BOTANICAL NAME)	DBH (cm)	mTPI	CROWN CLASS*	CONDITION**	CROWN WIDTH (m)	VEGETATION VALUE & PHYSICAL CONSTRAINTS	POTENTIAL IMPACTS FROM CONSTRUCTION	OWNERSHIP	RECOMMENDATION
1	Norway Maple	Acer platanoides	25	2.4	D	Poor-Fair	5	Decay at base or trunk, peeling bar, asymmetrical crown, epicormic branching		Public	SAVE
2	Trembling Aspen	Populus tremuloides	20	2.4	D	Good	5	Included bark, poor branching structure (minor)		Public	SAVE
3	Little Leaf Linden	Tilia cordata	30	2.4	D	Fair	6	Epicormic branching, possible girdling root, included bark		Public	SAVE
4	Little Leaf Linden	Tilia cordata	27	2.4	D	Fair	5	Dead branches (minor), epicormic branches, poor branch structure, included bark		Public	SAVE
5	Little Leaf Linden	Tilia cordata	34	2.4	D	Fair-Poor	6	Included bark, dead branches (minor), poor branch structure		Public	SAVE
6	Little Leaf Linden	Tilia cordata	33	2.4	D	Fair	6	Included bark, poor branching structure, slight lean		Public	SAVE
7	Downy Serviceberry	Amelanchier arborea	4	1.8	D	Fair	1	Newly planted, leaning north, water stressed		Public	SAVE
8	Downy Serviceberry	Amelanchier arborea	4	1.8	D	Good	1	Newly planted, leaning southwest		Public	SAVE
9	Apple species	Malus spp.	16	2.4	C	Good-Fair	4	Included bark, powdery mildew on foliage, dead branches (minor)	Conflict with proposed building	Subject Site	REMOVE
10	Apple species	Malus spp.	15	2.4	C	Fair-Poor	3	Crown dieback/sparse crown, co-dominant leasers at 2.0m	Conflict with proposed building	Subject Site	REMOVE
11	Ivory Silk Lilac	Syringa reticulata 'Ivory Silk'	4	1.8	D	Good	1	Newly planted, healed wound on lower stem		Public	SAVE
12	Ivory Silk Lilac	Syringa reticulata 'Ivory Silk'	5	1.8	D	Good	1	Newly planted		Public	SAVE
13	Ivory Silk Lilac	Syringa reticulata 'Ivory Silk'	4	1.8	D	Good	1	Newly planted		Public	SAVE
14	Apple species	Malus spp.	12	2.4	C	Good	4	Included bark	Conflict with proposed building	Subject Site	REMOVE
15	Ivory Silk Lilac	Syringa reticulata 'Ivory Silk'	4	1.8	D	Good	1	Newly planted		Public	SAVE
16	Apple species	Malus spp.	11	2.4	C	Good	3	Slight lean south	Conflict with proposed building	Subject Site	REMOVE
17	Ivory Silk Lilac	Syringa reticulata 'Ivory Silk'	4	1.8	D	Good	1	Newly planted		Public	SAVE
18	Ivory Silk Lilac	Syringa reticulata 'Ivory Silk'	4	1.8	D	Good	1	Newly planted, root plate partially exposed		Public	SAVE
19	Downy Serviceberry	Amelanchier arborea	4	1.8	D	Good	1.5			Public	SAVE
20	Downy Serviceberry	Amelanchier arborea	4	1.8	D	Good	1.5	Included bark (minor)		Public	SAVE
21	Apple species	Malus spp.	13	2.4	D	Good	3	Longitudinal scar on branch	Conflict with proposed building and driveway	Subject Site	REMOVE
22	Apple species	Malus spp.	9	1.8	D	Fair	2	Crown dieback (minor), slight lean north	Conflict with proposed building and driveway	Subject Site	REMOVE
23	Apple species	Malus spp.	8	1.8	D	Fair	2	Asymmetrical crown, dead branches	Conflict with proposed building and driveway	Subject Site	REMOVE
24	Apple species	Malus spp.	11	2.4	D	Good	2		Conflict with proposed building and driveway	Subject Site	REMOVE
25	Apple species	Malus spp.	11	2.4	D	Good	3		Conflict with proposed building and driveway	Subject Site	REMOVE
26	Apple species	Malus spp.	11	2.4	D	Good	2	Asymmetrical crown	Conflict with proposed driveway	Subject Site	REMOVE
27	Apple species	Malus spp.	11	2.4	D	Good	3	Healed stem wound at 1.25m, slight lean north, asymmetrical crown	Conflict with proposed amenity space	Subject Site	REMOVE
28	Armstrong Maple	Acer x freemanii 'Armstrong'	13	2.4	D	Good	3	Water stress, included bark (minor), bark cracks at base of trunk	Conflict with proposed amenity space	Subject Site	REMOVE
29	Armstrong Maple	Acer x freemanii 'Armstrong'	11	2.4	C	Good	3			Subject Site	SAVE
30	Apple species	Malus spp.	11	2.4	C	Good	3			Subject Site	SAVE
31	Apple species	Malus spp.	10	1.8	C	Good	3			Subject Site	SAVE
										Subject Site	SAVE

** CROWN CLASS*
Dominant- (D) Emergent canopy (receives full sunlight)
Co-dominant - (C) Not fully emergent (top of canopy receives sunlight)
Intermediate - (I) Sub-canopy tree (receives partial sunlight)

*** CONDITION - consideration of trunk integrity, crown structure and crown vigor*
Good - few or no issues related to trunk integrity, crown structure or crown vigor
Fair - minor issues related to trunk integrity, crown structure (form, some dead or damged branches) or crown vigor (20-80% healthy foliage)
Poor - issues with trunk integrity such as cavities or exposed dead wood, poor crown structure (poor form, no clear leader, significant dead or damaged branches) or poor crown vigor (<20% healthy foliage)

CONDITION OF TREES
The decision to remove or retain a tree is subject to the forecasted development impacts, the structural condition of the tree (e.g. cracks, cavities, decay, weak branching, leaning, hazard potential), the biological condition of the tree (e.g. pest or disease concerns, overall health) and the suitability of the tree in its location (e.g. hardiness, soil conditions, salt tolerance, visual obstruction, available soil volume)

NOTE:
Written permission from the neighbouring property owner is required prior to removal or injury of any boundary tree(shared ownership) or any tree that is not fully on the subject property.

TREE REMOVAL:

1. *No trees shall be removed prior to municipal approvals of the Tree Management/Tree Preservation Plan.*

BOUNDARY TREES:

2. *Note that boundary trees are protected under the Ontario Forestry Act. Boundary trees are defined in the Forestry Act (Section 10.2) and are considered shared or co-owned property. The Forestry Act indicates that it is a prosecutable offense for one co-owner to injure or cut down a boundary tree without the other co-owner's permission.*
3. *Written permission from the neighbouring property owner is required prior to removal or injury of any boundary tree(shared ownership) or any tree that is not fully on the subject property.*
4. *An ISA certified Arborist should be on site prior to any work being performed within the rootzone of a boundary or neighbouring tree to perform root pruning as required.*

MIGRATORY BIRDS AND NESTS:

1. *The Owner and Contractor must be aware of the Migratory Birds Convention Act, 1994 - specifically;*
   - *No tree removal or construction activity shall contravene the Act.*
   - *Construction activities with the potential to harm migratory birds or their nest should be restricted from March 15 to August 31.*
   - *If work must occur during the migratory bird breeding season, a nest survey should be taken by a qualified avian biologist.*
   - *A mitigation plan (showing active nests and appropriate buffers) may be required for review and approval by the Canadian Wildlife Services.*

City of Burlington Tree Protection Barrier Detail

SCALE: NTS

1
L-2

NOT FOR CONSTRUCTION
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NOTE:
Vegetation inventory undertaken by Carleigh Pope, ISA Certified Arborist (ON-2578A) on May 27th, 2021.

REVISIONS/ SUBMISSIONS

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1	2021-06-30	Issued for review
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ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
MARIO PATTINATI
OALA
MEMBER

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