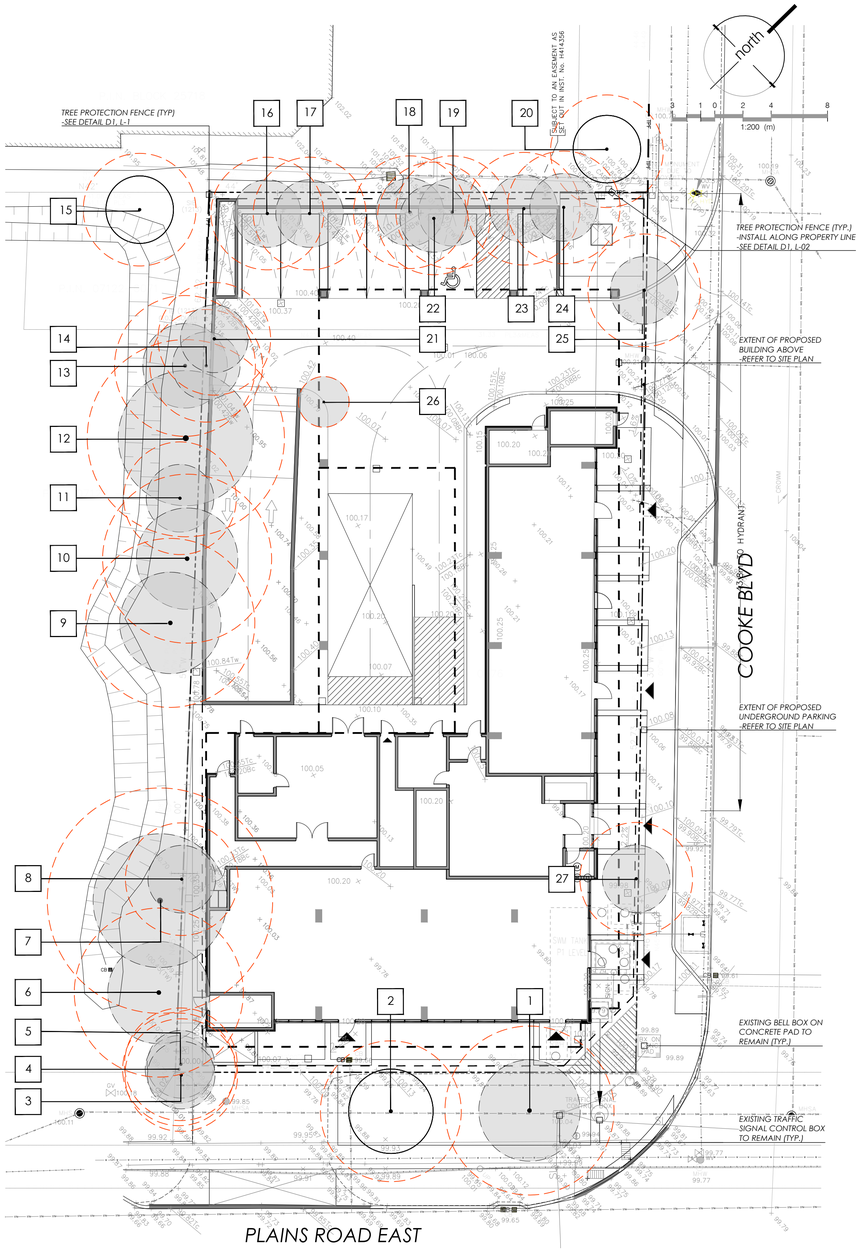
project #: 21-093



INVENTORY PHOTOS - 2021-09-08


Tree 1


Tree 2 - healed stem wound


Trees 3-5


Tree 7


Tree 9


Trees 10-12


Tree 20

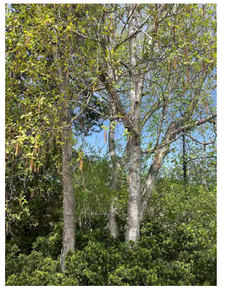

Tree 15

INVENTORY PHOTOS - 2025-05-12

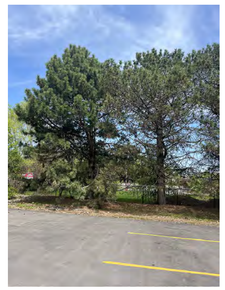

Tree 1


Tree 2


Trees 3-5

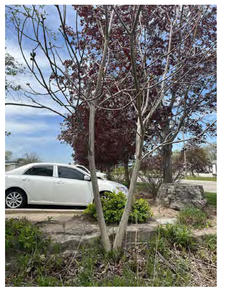

Tree 6


Tree 7


Trees 12-13


Trees 18-19, 22


Tree 23


Tree 24


Tree 27

KEY MAP - N.T.S.



LEGEND

- property line
- 2 — existing tree number (refer to chart)
- existing vegetation to remain
- existing vegetation to be removed
- existing elevations
- TPF — tree protection fence (with silt fence) - see detail D1, L-1
- critical root zone
- minimum tree protection zone

NOT FOR CONSTRUCTION
ISSUED FOR REVIEW & COMMENTS ONLY

NOTE:
Vegetation inventory undertaken by Carleigh Pope, ISA Certified Arborist (ON-2578A) on 2021-09-08.

REVISIONS/ SUBMISSIONS

#	DATE	DESCRIPTION
1	2023-10-18	Issued for client review
2	2025-01-29	Issued for client submission
3	2025-05-22	Issued for ZBA/OPA submission

STAMP

CLIENT

MUNICIPALITY
City of Burlington

PROJECT
35 Plains Road East

MUNICIPAL FILE NUMBER

SHEET
Tree Protection Plan L-01

adesso design inc.
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P:\21-093 Plains Rd E, Burlington, ON\1.0 ARB\1.3 Plans & Reports\1.3.1 Current Drawings\21-093_Layout_L-01.dwg
LAST SAVED BY: mbeaton, Thursday, May 22, 2025 11:16:42 AM PLOTTED BY: Carleigh Pope Thursday, May 22, 2025 11:17:59 AM

project #: 21-093

EXISTING VEGETATION IDENTIFICATION TABLE

TREE #	SPECIES (COMMON NAME)	SPECIES (BOTANICAL NAME)	DBH (cm)	STRUCTURAL (%)	HEALTH(%)	OVERALL CONDITION (%)	CONDITION **	CROWN CLASS	CROWN WIDTH (m)	mTPZ (m)	mTPZ (m2)	mTPZ encroachment (m2)	mTPZ injury (%)	CRZ (m)	CRZ (m2)	CRZ encroachment (m2)	CRZ injury (%)	COMMENTS	POTENTIAL IMPACTS FROM CONSTRUCTION	OWNERSHIP	RECOMMENDATION
1	Little Leaf Linden	*Tilia cordata*	58.5	70%	60%	65%	GOOD	D	7	3.6	40.72	7.40	18%	6.0	113.10	60.50	53%	co-dominant leaders @ 6m, poor branch taper, sparse canopy	encrochment due to proposed excavation for underground parking and servicing; tree species has low tolerance for disturbance and is currently within daylight visibility triangle	Public - Plains Rd E ROW	REMOVE with permission
2	Norway Maple	*Acer platanoides*	43	80%	70%	75%	GOOD	D	6	3.0	28.27	2.08	7%	5.0	78.54	34.40	44%	co-dominant leaders @ 2m, included bark, dead/broken branches in canopy, large healed stem wound, bark peeling	encrochment due to proposed paving and servicing	Public - Plains Rd E ROW	SAVE
3	Tree-of-Heaven	*Ailanthus altissima*	22.65 (11,14,14)	60%	60%	60%	FAIR	C	3	2.4	18.10	6.78	37%	4.0	50.27	12.98	26%	healed stem wound, leaning south	encrochment due to proposed paving and servicing	Public - Plains Rd E ROW	REMOVE with permission
4	Tree-of-Heaven	*Ailanthus altissima*	16	50%	60%	55%	FAIR	C	3	2.4	18.10	5.50	30%	4.0	50.27	14.03	28%	corrected sweep, poor branch taper	encrochment due to proposed paving and servicing	Public - Plains Rd E ROW	REMOVE with permission
5	Tree-of-Heaven	*Ailanthus altissima*	21.26 (14,16)	60%	60%	60%	FAIR	C	3	2.4	18.10	4.81	27%	4.0	50.27	16.10	32%	union @ 3m, included bark	encroachment due to proposed paving	Subject Site - 35 Plains Rd E	REMOVE
6	Paper Birch	*Betula papyrifera*	52.13 (24,29,26.25)	40%	30%	35%	POOR	C	9	3.6	40.72	10.64	26%	6.0	113.10	39.86	35%	one stem dead/dying, poor form	encroachment due to proposed underground parking structure and building footprint	Neighbouring - 15 Plains Rd E	REMOVE with permission
7	Austrian Pine	*Pinus nigra*	82	50%	40%	45%	FAIR	C	12	4.8	72.38	21.29	29%	8.0	201.06	75.64	38%	Diplodia tip blight, woodpecker damage, insect damage, poor branch structure	encroachment due to proposed underground parking structure and building footprint	Neighbouring - 15 Plains Rd E	REMOVE with permission
8	Manitoba Maple	*Acer negundo*	38	50%	70%	60%	FAIR	C	10	2.4	18.10	8.66	48%	4.0	50.27	24.49	49%	trunk edema at base, dead/broken branches in canopy (mod), HP, co-dominant leaders @ 4m, asymmetrical crown	encroachment due to proposed underground parking structure and building footprint	Boundary - 15 & 35 Plains Road East	REMOVE with permission
9	Austrian Pine	*Pinus nigra*	58	70%	70%	70%	GOOD	C	10	3.6	40.72	9.18	23%	6.0	113.10	37.48	33%	Diplodia tip blight, poor form, rubbing branches, dead/broken branches in canopy	encroachment due to proposed underground parking structure and building footprint	Neighbouring - 15 Plains Rd E	REMOVE with permission
10	Austrian Pine	*Pinus nigra*	57	60%	50%	55%	FAIR	C	12	3.6	40.72	16.08	39%	6.0	113.10	49.31	44%	poor form, dead/broken branches in canopy, co-dominant leaders @ 3m	encroachment due to proposed underground parking structure and building footprint	Neighbouring - 15 Plains Rd E	REMOVE with permission
11	Austrian Pine	*Pinus nigra*	34	60%	30%	45%	FAIR	C	8	2.4	18.10	3.24	18%	4.0	50.27	15.11	30%	leaning west, dead/broken branches in canopy, poor form, woodpecker damage (sev), Diplodia tip blight	encroachment due to proposed underground parking structure and building footprint	Neighbouring - 15 Plains Rd E	REMOVE with permission
12	Austrian Pine	*Pinus nigra*	54.67 (42,35)	70%	40%	55%	FAIR	C	7	4.8	72.38	26.48	37%	8.0	201.06	62.66	31%	union @ 1m, dead/broken branches in canopy (sev), woodpecker damage, corrected sweep	encroachment due to proposed underground parking structure and building footprint	Neighbouring - 15 Plains Rd E	REMOVE with permission
13	Austrian Pine	*Pinus nigra*	45	60%	60%	60%	FAIR	C	9	3.0	28.27	6.71	24%	5.0	78.54	26.55	34%	asymmetrical crown, dead/broken branches in canopy, Diplodia tip blight, poor form	encroachment due to proposed underground parking structure and building footprint	Neighbouring - 15 Plains Rd E	REMOVE with permission
14	Rock Elm	*Ulmus thomasii*	20	70%	60%	65%	GOOD	C	6	2.4	18.10	10.09	56%	4.0	50.27	26.91	54%	poor branch taper, poor form, grapevine competition	encroachment due to proposed underground parking structure and building footprint	Boundary - 15 & 35 Plains Road East	REMOVE with permission
15	Austrian Pine	*Pinus nigra*	41	70%	70%	70%	GOOD	C	8	2.4	18.10	0.00	0%	4.0	50.27	0.00	0%	dead/broken branches in canopy, Diplodia tip blight	none	Neighbouring - 15 Plains Rd E	SAVE
16	Siberian Elm	*Ulmus pumila*	22	70%	70%	70%	GOOD	C	5	2.4	18.10	16.93	94%	4.0	50.27	36.88	73%	dead/broken branches in canopy, poor branch taper, grapevine competition	encroachment due to proposed surface parking	Subject Site - 35 Plains Rd E	REMOVE
17	Siberian Elm	*Ulmus pumila*	30.61 (24,19)	70%	60%	65%	GOOD	C	5	2.4	18.10	15.93	88%	4.0	50.27	36.83	73%	union @ 0.5m, poor branch taper, asymmetrical crown, grapevine competition	encroachment due to proposed surface parking	Subject Site - 35 Plains Rd E	REMOVE
18	Siberian Elm	*Ulmus pumila*	17	70%	60%	65%	GOOD	C	4	2.4	18.10	15.46	85%	4.0	50.27	36.16	72%	included bark, dead/broken branches in canopy	encroachment due to proposed surface parking	Subject Site - 35 Plains Rd E	REMOVE
19	Siberian Elm	*Ulmus pumila*	22	70%	70%	70%	GOOD	C	4	2.4	18.10	15.41	85%	4.0	50.27	36.47	73%	poor form, poor branch taper, asymmetrical crown	encroachment due to proposed surface parking	Subject Site - 35 Plains Rd E	REMOVE
20	Crimson King Norway Maple	*Acer platanoides 'Crimson King'*	27	80%	70%	75%	GOOD	C	5	2.4	18.10	0.00	0%	4.0	50.27	4.05	8%	healed stem wound, included bark, sparse canopy	minor CRZ encroachment due to proposed transformer and underground parking	Neighbouring - 1026 Cooke Blvd	SAVE
21	White Mulberry	*Morus alba*	20.62 (15, 10, 10)	40%	70%	55%	FAIR	C/I	4	2.4	18.10	12.43	69%	4.0	50.27	30.86	61%	union at base with decay, poor form, epicormic branching	direct conflict with proposed buildng footprint	Subject Site - 35 Plains Rd E	REMOVE
22	Siberian Elm	*Ulmus pumila*	19.42 (16,11)	70%	70%	70%	GOOD	C	5	2.4	18.10	16.98	94%	4.0	50.27	39.38	78%	union at base, poor branch taper	direct conflict with proposed buildng footprint	Subject Site - 35 Plains Rd E	REMOVE
23	Siberian Elm	*Ulmus pumila*	15	80%	80%	80%	GOOD	C	4	2.4	18.10	14.26	79%	4.0	50.27	34.25	68%	asymmetrical canopy, poor branch taper	direct conflict with proposed buildng footprint	Subject Site - 35 Plains Rd E	REMOVE
24	Tree-of-Heaven	*Ailanthus altissima*	12.73 (9,9)	80%	80%	80%	GOOD	C	5	2.4	18.10	13.98	77%	4.0	50.27	33.59	67%	union at base	direct conflict with proposed buildng footprint	Subject Site - 35 Plains Rd E	REMOVE
25	White Mulberry	*Morus alba*	19.67 (13,13,7)	40%	80%	60%	FAIR	D	5	2.4	18.10	18.10	100%	4.0	50.27	50.27	100%	coppice growth, conflict with existing chain link fence, asymmetrical canopy, heavily pruned	direct conflict with proposed driveway, sidewalk, and underground parking	Boundary - 35 Plains Rd E and Cooke Blvd ROW	REMOVE with permission
26	Siberian Elm	*Ulmus pumila*	10	80%	80%	80%	GOOD	D	3	1.8	10.18	10.18	100%	1.8	10.18	10.18	100%	epicormic branching, poor branch taper, included bark	direct conflict with proposed buildng footprint	Subject Site - 35 Plains Rd E	REMOVE
27	Siberian Elm	*Ulmus pumila*	14	70%	80%	75%	GOOD	C	5	2.4	18.10	18.10	100%	4.0	50.27	50.27	100%	co-dominant leaders at 1.6m, dead/broken branches in canopy, poor branch structure and taper	direct conflict with proposed walkway, underground parking, and servicing	Subject Site - 35 Plains Rd E	REMOVE

CHART LEGEND/CODES

DBH *= Diameter at Breast Height (cm)*

Crown Class: *D = Dominant, CD = Codominant, I = Intermediate, S = Suppressed*

mTPZ = *minimum Tree Protection Zone*

CRZ = *Critical Root Zone*

*** 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)

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:

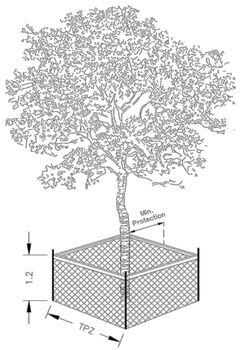
1. *The Owner and Contractor must be aware of the Migratory Birds Convention Act, 1994 - specifically:*
   - *No tree removal or construction activity shall contravene the Act.*
   - *Construction activities with the potential to harm migratory birds or their nest should be restricted from March 15 to 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 & Signage

SCALE: NTS

Tree Protection and Preservation Specification No.: SS12A



Detail TP-1 – Tree Protection Detail.

Trunk Diameter (DBH) [2]	Minimum Tree Protection Zone (MTPZ) Distances Required [1]	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".

1
L-02

NOT FOR CONSTRUCTION
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NOTE:
Vegetation inventory undertaken by Carleigh Pope, ISA Certified Arborist (ON-2578A) on 2021-09-08 and 2025-05-12

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City of Burlington

PROJECT
35 Plains Road East

MUNICIPAL FILE NUMBER

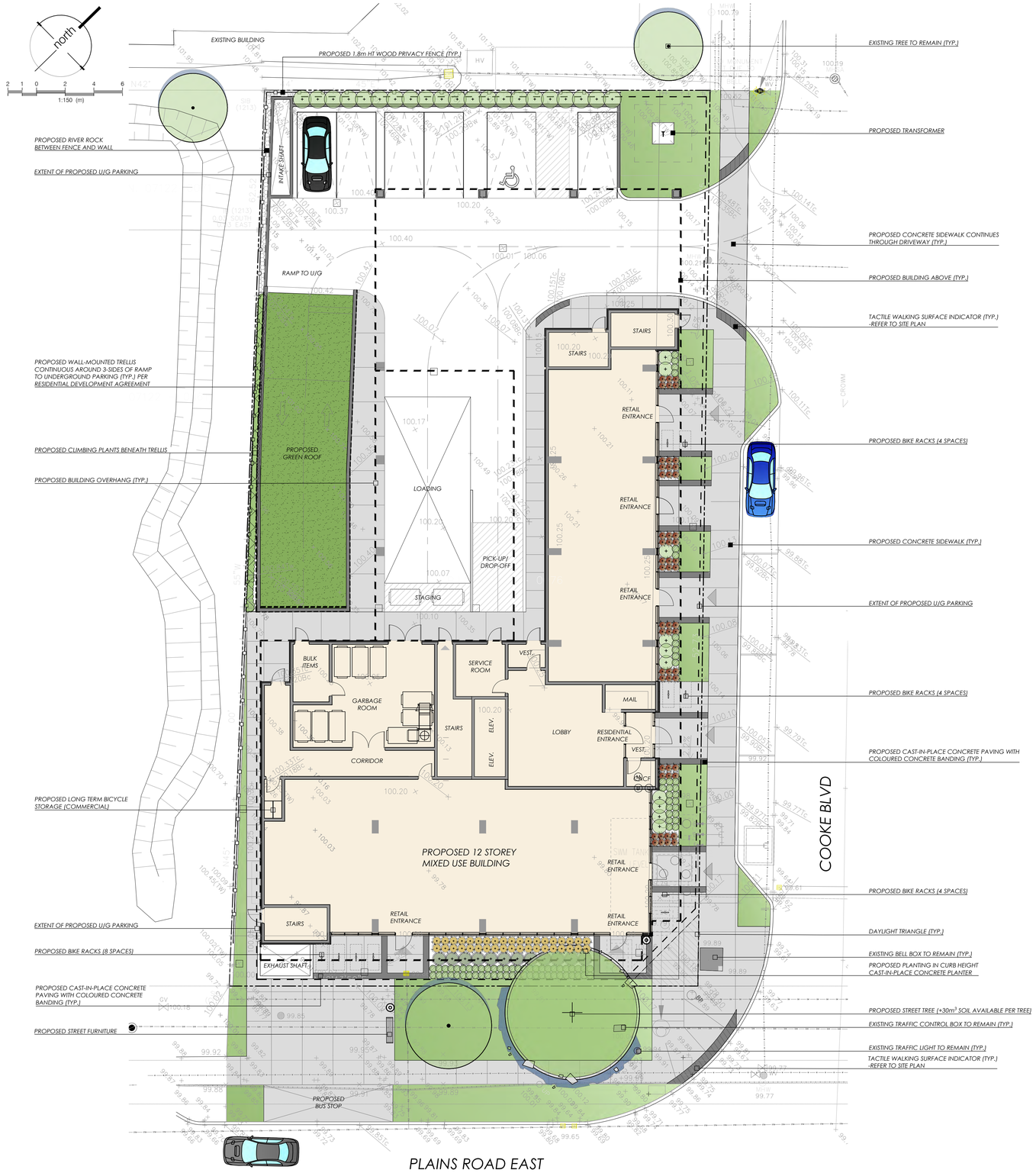
SHEET
Tree Protection Plan Chart
L-02

adesso design inc.
landscape architecture

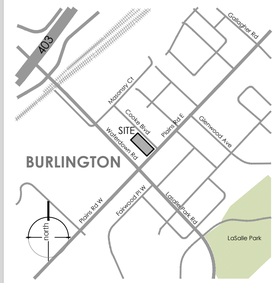
69 John Street South, Suite 250
Hamilton, ON L8N 2B9
t. 905.526.8876
www.adessodesigninc.ca

P:\21-093 Plains Road\35_35\21-093_35 Plains Rd E, Burlington\02 Current Drawings\21-093_35 Plains Rd E, Burlington_TPP.dwg
LAST SAVED BY: Stefani G. Thursday, May 22, 2025 11:16:43 AM PLOTTED BY: Carleigh Pope Thursday, May 22, 2025 11:17:42 AM

project #: 21-093



KEY MAP - N.T.S.



LEGEND

- property line
- existing tree to remain
- proposed shrub
- proposed perennial
- existing elevations
- proposed elevations
- min. 150mm topsoil, fine grade & sod
- C.I.P. concrete
- proposed transformer
- green roof vegetation

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ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
MARIO PATRIZIO
MEMBER

CLIENT

MUNICIPALITY
City of Burlington

PROJECT
35 Plains Road East

MUNICIPAL FILE NUMBER

SHEET
Landscape Concept Plan

L-03

adesso design inc.
landscape architecture

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REG:\\Project Files\Projects\21-093\21-093 35 Plains Rd, Burlington\02 Current Drawings\21-093_Layout_LANDSCAPE_Concept
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