

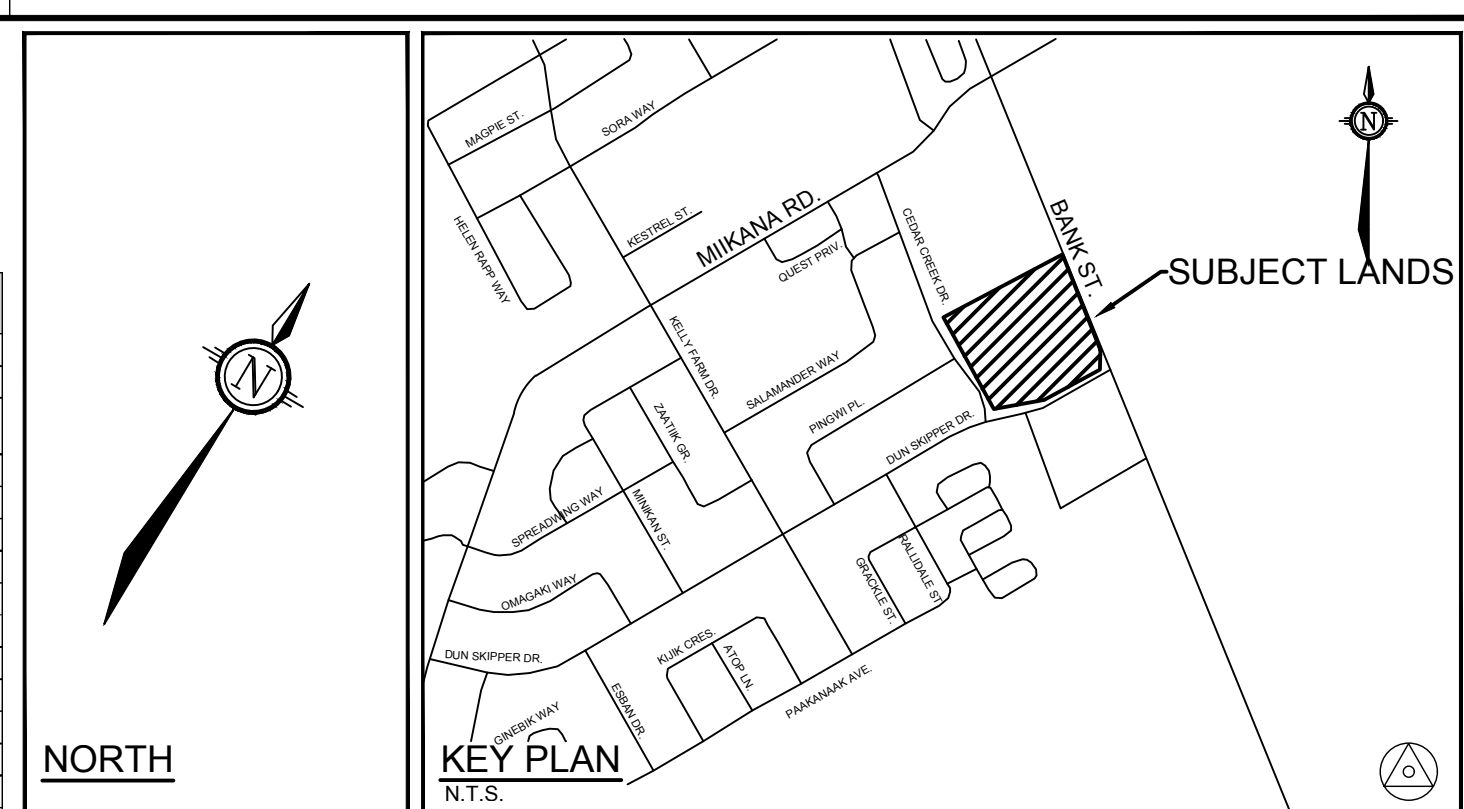
**CITY DETAILS**  
 Related details from City of Ottawa Standard Tender Documents  
 Volume No. 2 Standard Detail Drawings.  
 F7. Tree Preservation Protection Fence

No.	Botanical Name	Common Name	DBH (cm)	CRZ (m)	Condition	Owner	Remarks	Recomm.
1	<i>Fraxinus pennsylvanica</i>	Green Ash	33.0	3.30	F	City (ROW)		PROTECT
2	Dead		57.0	5.70	D	City (ROW)		Remove
3	<i>Acer negundo</i>	Manitoba Maple	46.0	4.60	F	City (ROW)		PROTECT
4	<i>Fraxinus pennsylvanica</i>	Green Ash	11.0	1.10	F	Owner	3 trunks, 30° and 45° lean, dead branches	PROTECT
5	<i>Fraxinus pennsylvanica</i>	Green Ash	28.0	2.80	F	Owner	dead branches	Conflict
6	<i>Malus sp.</i>	Apple	54.0	5.40	VP	Owner	Trunk is wounded and rotten	Remove
7	<i>Acer saccharum</i>	Sugar Maple	37.0	3.70	G	Owner		Conflict
8	<i>Acer saccharum</i>	Sugar Maple	10.0	1.00	G	Neighbour		Conflict
9	<i>Ulmus americana</i>	White Elm	46.0	4.60	G	Owner		Conflict
10	<i>Fraxinus pennsylvanica</i>	Green Ash	39.0	3.90	F	Neighbour	Bend in trunk.	PROTECT
11	<i>Acer saccharum</i>	Sugar Maple	34.0	3.40	G	Owner		Conflict
12	<i>Ulmus americana</i>	White Elm	28.0	2.80	G	Owner		Conflict
13	<i>Acer saccharum</i>	Sugar Maple	34.0	3.40	G	Owner		Conflict
14	<i>Ulmus americana</i>	White Elm	36.0	3.60	G	Owner		Conflict
15	<i>Acer saccharum</i>	Sugar Maple	63.0	6.30	F	Owner	Twin leader, evidence of internal rot	Remove
16	<i>Acer saccharum</i>	Sugar Maple	27.0	2.70	G	Owner		Conflict
17	<i>Ulmus americana</i>	White Elm	33.0	3.30	G	Owner		Conflict
18	<i>Acer saccharum</i>	Sugar Maple	40.0	4.00	G	Owner		Conflict
19	<i>Picea sp.</i>	Spruce	25.0	2.50	G	Owner		Conflict
20	<i>Picea sp.</i>	Spruce	31.0	3.10	G	Owner		Conflict
21	<i>Picea sp.</i>	Spruce	24.0	2.40	G	Owner		Conflict
22	<i>Picea sp.</i>	Spruce	32.0	3.20	G	Owner		Conflict
23	<i>Picea sp.</i>	Spruce	25.0	2.50	G	Owner		Conflict
24	<i>Picea sp.</i>	Spruce	40.0	4.00	G	Owner		Conflict
25	<i>Acer saccharum</i>	Sugar Maple	84.0	8.40	P	Shared	Dead branches, multi-leader, rot	Remove
26	<i>Acer saccharum</i>	Sugar Maple	30.0	3.00	P	Owner	Black fungus, growing out of stump/wire fence	Remove
27	<i>Picea sp.</i>	Spruce	39.0	3.90	G	Owner		Conflict
28	<i>Pinus banksiana</i>	Jack Pine	30.0	3.00	G	Owner		Conflict
29	Dead		48.0	4.80	D	Owner		Remove
30	Dead		39.0	3.90	D	Neighbour		Remove
31	<i>Acer saccharum</i>	Sugar Maple	140.0	14.00	P	Shared	Internal rot, dead branches	Remove
32	<i>Malus sp.</i>	Apple	43.0	4.30	P	Owner	60° lean	Remove
33	<i>Acer saccharum</i>	Sugar Maple	12.0	1.20	G	Owner		Conflict
34	<i>Ulmus americana</i>	White Elm	18.0	1.80	G	Owner		Conflict
35	<i>Acer saccharum</i>	Sugar Maple	30.0	3.00	G	Owner		Conflict
36	<i>Acer saccharum</i>	Sugar Maple	14.0	1.40	G	Owner		Conflict
37	<i>Acer saccharum</i>	Sugar Maple	10.0	1.00	G	Owner		Conflict
38	<i>Acer saccharum</i>	Sugar Maple	24.0	2.40	G	Owner		Conflict
39	<i>Acer saccharum</i>	Sugar Maple	59.0	5.90	F	Neighbour	braided trunks	PROTECT
40	Dead		43.0	4.30	D	Neighbour		N/A
41	<i>Picea sp.</i>	Spruce	28.0	2.80	G	Owner		Conflict
42	<i>Acer saccharum</i>	Sugar Maple	24.0	2.40	G	Owner		Conflict
43	<i>Acer saccharum</i>	Sugar Maple	36.0	3.60	G	Owner		Conflict
44	<i>Acer saccharum</i>	Sugar Maple	53.0	5.30	P	Owner	Twing trunk, rot, split in trunk	Remove
45	<i>Malus sp.</i>	Apple	34.0	3.40	F	Owner	Twin trunk, dead branches, Sever bend	Remove
46	<i>Ulmus americana</i>	White Elm	43.0	4.30	G	Owner		Conflict
47	<i>Acer saccharum</i>	Sugar Maple	79.0	7.90	G	Neighbour	Twing trunk, rot, split	Remove
48	<i>Acer saccharum</i>	Sugar Maple	53.0	5.30	G	Owner		Conflict
49	<i>Acer saccharum</i>	Sugar Maple	39.0	3.90	G	Neighbour		PROTECT
50	<i>Acer saccharum</i>	Sugar Maple	29.0	2.90	G	Neighbour		PROTECT
51	<i>Acer saccharum</i>	Sugar Maple	25.0	2.50	G	Owner		Conflict
52	<i>Acer saccharum</i>	Sugar Maple	32.0	3.20	G	Neighbour		PROTECT
53	<i>Acer saccharum</i>	Sugar Maple	45.0	4.50	G	Neighbour		PROTECT
54	<i>Acer saccharum</i>	Sugar Maple	57.0	5.70	F	Neighbour	Three trunks - 1 dead	PROTECT
55	<i>Acer saccharum</i>	Sugar Maple	64.0	6.40	G	Owner		Conflict
56	Dead		47.0	4.70	D	Owner		Remove
57	<i>Acer saccharum</i>	Sugar Maple	82.0	8.20	G	Owner		Conflict
58	Dead		52.0	5.20	D	Owner	Fallen Butternut - see BHE report	Remove
59	<i>Acer saccharum</i>	Sugar Maple	99.0	9.90	G	Neighbour		Conflict
60	Dead		76.0	7.60	D	Owner		Remove
61	<i>Acer saccharum</i>	Sugar Maple	46.0	4.60	G	Neighbour		PROTECT
62	Dead		48.0	4.80	D	Neighbour	Butternut - see BHE report	N/A
63	<i>Acer saccharum</i>	Sugar Maple	39.0	3.90	G	Owner		Conflict
64	<i>Acer saccharum</i>	Sugar Maple	37.0	3.70	G	Neighbour		Conflict
65	<i>Ulmus americana</i>	White Elm	56.0	5.60	G	Owner		Conflict
66	<i>Acer saccharum</i>	Sugar Maple	65.0	6.50	P	Neighbour	Twin trunk, split, rot	Conflict
67	<i>Acer saccharum</i>	Sugar Maple	73.0	7.30	G	Owner		Conflict
68	<i>Acer saccharum</i>	Sugar Maple	20.0	2.00	G	Neighbour		PROTECT
69	<i>Acer saccharum</i>	Sugar Maple	34.0	3.40	G	Neighbour		PROTECT
70	<i>Ulmus americana</i>	White Elm	37.0	3.70	F	Owner	bow in trunk.	PROTECT
71	<i>Acer saccharum</i>	Sugar Maple	10.0	1.00	F	Owner	intertwined with dead tree	PROTECT
72	<i>Acer saccharum</i>	Sugar Maple	12.0	1.20	G	Owner		PROTECT
73	<i>Acer saccharum</i>	Sugar Maple	41.0	4.10	P	Owner	Twin trunk, rot, dead tree fallen between two trunks, split trunks	Remove
74	<i>Acer saccharum</i>	Sugar Maple	32.0	3.20	G	Neighbour		PROTECT
75	<i>Ulmus americana</i>	White Elm	60.0	6.00	F	Neighbour	Minor splitting	PROTECT
76	<i>Acer saccharum</i>	Sugar Maple	37.0	3.70	G	Owner		PROTECT
77	<i>Picea sp.</i>	Spruce	10.0	1.00	G	Owner		Conflict

**TREE IMPACT ANALYSIS**

Using data collected during the tree inventory and assessment, a tree impact analysis was performed. Determination of each Tree's recommended action (i.e. Retain, Protect, Remove/Conflict) were based on several factors including each tree's current condition and its location in relation to the limits of construction. As outlined in the City's Tree Preservation By-law (2020), a Critical Root Zone (CRZ) was applied around each tree. The CRZ is defined as an area around each tree and is typically established based on the species and size of the tree and are intended to provide a buffer protecting the tree from potential impacts, including root and soil compaction and mechanical damage to above-ground parts. Based on the City's guidelines, the CRZ is established as being 10cm from the trunk of a tree for every 1cm of trunk diameter. The CRZ for multi-stemmed trees was based on the DBH of the largest stem.

- Generally, the following guidelines are followed in deriving a tree's recommendation:
- Trees with equal or greater than 40% of its CRZ affected by proposed work activities (**Conflict**) are recommended for **Removal** as there would likely be detrimental impacts to the tree.
  - Trees with 0-39% of its CRZ affected by the proposed work activities are recommended for **Protection** as outlined in the Tree Protection Notes on the plan.
  - Trees with CRZs that are outside the proposed work areas are recommended for **Retention** with no protection as it is unlikely that there will be negative impacts to the tree.



**LEGEND**

- 3-D1 DETAIL SHEET # NOVATECH OR CITY DETAIL NUMBER SEE LIST FOR CODE
- PROPERTY LIMIT
- EXISTING TREE TO REMAIN, SYMBOL SIZE REFLECTS CRZ
- EXISTING TREE TO REMOVE, SYMBOL SIZE REFLECTS CRZ
- TREE PROTECTION FENCE
- EXISTING VEGETATION WITH DBH LESS THAN 10cm

**GENERAL**

- Read and interpret this drawing/ drawing set in conjunction with all the contract details and specifications, including related civil, utility, structural, architectural, mechanical, electrical, environmental, geotechnical, and survey information.
- The Contractor is to determine the exact location, size, material, and elevation of all existing utilities prior to commencing construction. Protect and assume responsibility for all existing utilities regardless of being shown on the drawings.
- It is essential to use the plans and details in conjunction with the specifications and notes.
- Do not scale drawings. Work to dimensions only.
- Protect all existing and retained vegetation for the duration of construction according to the contract details and specifications.
- Reinstate all areas and items damaged or disturbed, beyond the Limit of Work, because of construction activities, including but not limited to construction staging areas, haul roads, stockpile areas, etc. to the satisfaction of the Consultant. Unless otherwise noted, Contractor is to reinstate all areas to pre-construction condition or better to the satisfaction of the Contract Administrator.

**CONSTRUCTION**

- All general site information and conditions are compiled from Consultant field notes and plans provided by the Owner and are supplied for information purposes only. It is the responsibility of the Contractor to verify the accuracy of all the information obtained from this plan.
- Together with all Subcontractors involved, the Contractor is to examine all surfaces or conditions relating to the work, in order to determine the acceptability of such surfaces or conditions for the work to commence. Notify the Contract Administrator in writing of conditions which could be detrimental to installation and do not commence work until instructed by the Contract Administrator. The commencement of work implies Contractor acceptance of the conditions.
- Contractor to check and report any discrepancies before commencing work. No responsibility is borne by the Consultants for subsurface conditions.
- Contractor to check and verify all dimensions and quantities on site and report any errors or omissions to the Consultant.
- Contractor is responsible for all fees arising from the completion of works conveyed by these drawings, details, and specifications.
- Carry out all construction in accordance with the most current provincial and municipal standards and specifications.
- Contractor to coordinate all access and protect the public and users of the site with appropriate control fence and supervision throughout the construction period, to the satisfaction of the Consultant.
- Contract Administrator is to approve access point(s) prior to mobilization.
- A Contractor flagman is required to direct all deliveries of machinery or materials to the site.
- Contractor to coordinate and schedule all work with other trades and contractors. Contractor is to notify Contract Administrator of any schedule difficulties.
- Contractor responsible for the removal and off-site disposal of all materials as required to facilitate new construction. Store all items and materials identified by the Consultant for salvage at a location on site as identified by the Consultant. Excavate and remove from site any contaminated material. Dispose all contaminated material at a licensed landfill facility.
- Maintain site in a clean and orderly state for the duration of construction; perform all work in accordance with the Occupational Health and Safety Act. Remove all excess materials, packaging, and debris from the site.
- Contractor is responsible to take all necessary measures to control dust on the project site and to the satisfaction of the Contract Administrator.
- Contractor is responsible for all layout for construction purposes.
- Contractor is to protect all iron bars. Replace any disturbed bars by Owner at the Contractor expense.
- The Contractor is to notify the Contract Administrator upon completion of the required works to schedule an inspection for acceptance.

**TREE PROTECTION**

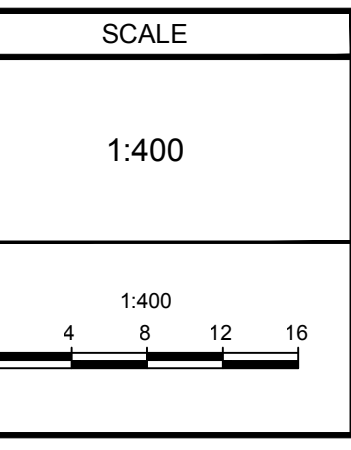
- Implement the following protection measures for retained trees, both on site and on adjacent sites, prior to any work activity, including tree removal. Maintain tree protection fence in place and in good condition for the duration of site works:
- The Landscape Architect or Certified Arborist is to determine the location of the tree protection fencing and detail it on any associated plans for the site (e.g. tree conservation report, tree disclosure report, etc.).
- Under the guidance of a Landscape Architect or Certified Arborist, erect a fence at the critical root zone (CRZ) of trees. Diameter at breast height (DBH) is the trunk diameter measured at 1.3m height on the tree trunk. The CRZ is calculated as DBH x 10. Refer to the Tree Protection Fence detail.
- Refer to the Tree Protection Plan for fence location. City Forestry Staff are to approve both the plan and the installed fence prior to work commencement.
- Do not place any material or equipment within 2m of the CRZ of any tree, including outhouses.
- Do not attach any signs, notices, or posters to any tree.
- Do not disturb, raise, or lower the existing grade within the CRZ without approval.
- Only tunnel or bore when digging within the CRZ of a tree. Hand work only where required within the CRZ; absolutely no machinery permitted.
- Do not damage the root system, trunk, or branches, or any tree.
- Do not extend hard surface or significantly change landscaping.
- Ensure that exhaust fumes from all equipment are directed away from any tree canopy.
- When trees marked for removal overlap with the CRZ of trees marked for preservation; cut roots at the edge of the CRZ and grind down stumps after tree removals, do not pull out stumps. Ensure there is not root pulling or disturbance of the ground within the CRZ.
- Prior to work taking place, notify and consult the Landscape Architect and City Forestry Staff if roots must be cut. Roots 20mm or larger should be cut at right angles with clean, sharp horticultural tools without tearing, crushing, or pulling. Refer to City of Ottawa Specification S.P. F-8011 Tree Protection, Excavation of Root Zone.
- If damaged or objectionable branches are observed, consult the Landscape Architect, before any work is conducted. Do not prune leaders. Do not prune more than 1/4 of crown.
- Set up a water and fertilizing program, if trees are being affected by site works, to the satisfaction of the Landscape Architect.
- The Landscape Architect is to prescribe mitigation measures if the protected fenced area must be reduced to facilitate construction. Measures may include the placement of plywood, wood chips, or steel plating over the roots for protection. City Forestry Staff are to approve said measures prior to fence movement.
- City of Ottawa By-law: Protects municipal trees and municipal natural areas in the City of Ottawa and trees on private property in the urban area of the City of Ottawa (2020-340).

**NOTE:**  
 THE POSITION OF ALL POLE LINES, CONDUITS, WATERMAIN, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

**Owner:**  
 Bank & Dun Developments Inc.  
 c/o Paul Pasigilunga  
 209 Wicksteed Avenue, Suite 30  
 Toronto, ON, M4G 0B1  
 Phone: (416) 335-0000

**NOT FOR CONSTRUCTION**

No.	REVISION	DATE	BY
2.	ISSUED FOR COMPLETENESS COMMENTS	DEC 8/24	RGJ
1.	ISSUED FOR SITE PLAN APPLICATION	OCT 24/24	RGJ



DESIGN	FOR REVIEW ONLY
KEW	
CHECKED KEW	
DRAWN KEW	
CHECKED TB	
APPROVED RGJ	



**NOVATECH**  
 Engineers, Planners & Landscape Architects  
 Suite 200, 240 Michael Cowpland Drive  
 Ottawa, Ontario, Canada K2M 1P6  
 Telephone: (613) 254-9643  
 Facsimile: (613) 254-5867  
 Website: www.novatech-eng.com

LOCATION		DRAWING NAME	
CITY OF OTTAWA 150 DUN SKIPPER		TREE CONSERVATION PLAN	
PROJECT No.	124107	REV # 2	
DRAWING No.	124107-TCR		

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