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	Fraxinus pennsylvanica	Green Ash	33.0	3.30	F	City (ROW)		PROTECT			
2	Dead	Dead	57.0	5.70	D	City (ROW)	3 trunks 30° and 45° laan dood	Remove			
3	Acer negundo	Manitoba Maple	46.0	4.60	F	City (ROW)	branches	PROTECT			Ш
4	Fraxinus pennsylvanica	Green Ash	11.0	1.10	F	Owner	dead branches	PROTECT			
5	Fraxinus pennsylvanica Malus sp.	Green Ash Apple	28.0 54.0	2.80 5.40	F VP	Owner Owner	Trunk is wounded and rotten	Conflict Remove			\parallel
7	Acer saccharum	Sugar Maple	37.0	3.70	G	Owner	Train is woulded and lotter	Conflict			
8	Acer saccharum	Sugar Maple	10.0	1.00	G	Neighbour		Conflict			$\prod A$
9	Ulmus americana	White Elm	46.0	4.60	G	Owner		Conflict		,	Π
10	Fraxinus pennsylvanica	Green Ash	39.0	3.90	F		Bend in trunk,	PROTECT			DU
11	Acer saccharum Ulmus americana	Sugar Maple White Elm	34.0 28.0	3.40 2.80	G G	Owner Owner		Conflict Conflict			
13	Acer saccharum	Sugar Maple	34.0	3.40	G	Owner		Conflict		IORTH	Шĸ
14	Ulmus americana	White Elm	36.0	3.60	G	Owner		Conflict	 '	<u>IOITIII</u>	$\frac{1}{N}$
15	Acer saccharum	Sugar Maple	63.0	6.30	F	Owner	Twin leader, evidence of interal rot	Remove		05110	
16	Acer saccharum	Sugar Maple	27.0	2.70	G	Owner		Conflict	LE	GEND	
17 18	Ulmus americana Acer saccharum	White Elm Sugar Maple	33.0 40.0	3.30 4.00	G	Owner Owner		Conflict Conflict	Г	DETAIL SHEET #	NOVA
19	Picea sp.	Spruce	25.0	2.50	G	Owner		Conflict	L	3-D1 EG. L1, L2, ETC.	DETA FOR (
20	Picea sp.	Spruce	31.0	3.10	G	Owner		Conflict		DDODEDT// WAT	
21	Picea sp.	Spruce	24.0	2.40	G	Owner		Conflict		PROPERTY LIMIT	
22	Picea sp.	Spruce	32.0	3.20	G	Owner		Conflict	A SPECTAL PRINT	AND TO	
23	Picea sp.	Spruce	25.0	2.50	G	Owner		Conflict	* PROFESSION AND ADDRESS OF THE PARTY OF THE	EXISTING TREE TO SYMBOL SIZE REF	
24 25	Picea sp. Acer saccharum	Spruce Sugar Maple	40.0 84.0	4.00 8.40	G P	Owner Shared	Dead branches, multi-leader, rot	Conflict Remove	To Bearing to the second	Management of and American	
26					P		Black fungus, growing out of stump/wire	Remove	N. M.	ngingagagagagagagagagagagagagagagagagaga	0.5=-
	Acer saccharum	Sugar Maple	30.0	3.00		Owner	fence		Waller Wall	EXISTING TREE TO SYMBOL SIZE REF	
27 28	Picea sp.	Spruce Jack Pine	39.0	3.90	G	Owner Owner		Conflict	Andredon,	and consolid to the hand and the	,
29	Pinus banksiana Dead	Dead	48.0	4.80	D	Owner		Conflict Remove		• • TREE PROTECTIO	NI
30	Dead	Dead	39.0	3.90	D	Neighbour		Remove		TREE PROTECTION	JN FEN
31	Acer saccharum	Sugar Maple	140.0	14.00	Р	Shared	Internal rot, dead branches	Remove		EXISTING VEGETA	ΔΤΙΟΝ Ί
32	Malus sp.	Apple	43.0	4.30	Р	Owner	60° lean	Remove	1	DBH LESS THAN 1	
33	Acer saccharum	Sugar Maple	12.0	1.20	G	Owner		Conflict			
34	Ulmus americana	White Elm	18.0	1.80	G	Owner		Conflict			
35 36	Acer saccharum Acer saccharum	Sugar Maple Sugar Maple	30.0 14.0	3.00 1.40	G	Owner Owner		Conflict Conflict			
37	Acer saccharum	Sugar Maple	10.0	1.00	G	Owner		Conflict			
38	Acer saccharum	Sugar Maple	24.0	2.40	G	Owner		Conflict	CC	ONSTRUCTION	
39	Acer saccharum	Sugar Maple	59.0	5.90	F	Neighbour	"braided" trunks	PROTECT	5		
40	Dead	Dead	43.0	4.30	D	Neighbour		N/A	1.	All general site information and Consultant field notes and plan	
41	Picea sp.	Spruce	28.0	2.80	G	Owner		Conflict		are supplied for information pu	
42 43	Acer saccharum Acer saccharum	Sugar Maple Sugar Maple	24.0 36.0	2.40 3.60	G G	Owner Owner		Conflict Conflict		responsibility of the Contractor	r to ver
44	Acer saccharum	Sugar Maple	53.0	5.30	P	Owner	Twing trunk, rot, split in trunk	Remove	•	information obtained from this	
45	Malus sp.	Apple	34.0	3.40	Р	Owner	Twin trunk, dead branches, Sever bend	Remove	2.	Together with all Subcontracto examine all surfaces or conditi	
46	Ulmus americana	White Elm	43.0	4.30	G	Owner		Conflict		order to determine the accepta	
47	Acer saccharum	Sugar Maple	79.0	7.90	Р	Neighbour	Twing trunk, rot, split	Remove		conditions for the work to com	
48	Acer saccharum	Sugar Maple	53.0 39.0	5.30 3.90	G	Owner		Conflict PROTECT		Administrator in writing of cond detrimental to installation and detrimental detrimental detrimental detrimental detrimental d	
49 50	Acer saccharum Acer saccharum	Sugar Maple Sugar Maple	29.0	2.90	G	Neighbour Neighbour		PROTECT		instructed by the Contract Adm	
51	Acer saccharum	Sugar Maple	25.0	2.50	G	Owner		Conflict		commencement of work implie	es Con
52	Acer saccharum	Sugar Maple	32.0	3.20	G	Neighbour		PROTECT	3.	conditions. Contractor to check and report	t anv d
53	Acer saccharum	Sugar Maple	45.0	4.50	G	Neighbour		PROTECT	0.	commencing work. No respons	
54	Acer saccharum	Sugar Maple	57.0	5.70	F	Neighbour	Three trunks - 1 dead	PROTECT		Consultants for subsurface cor	ndition
55	Acer saccharum	Sugar Maple	64.0	6.40	G	Owner		Conflict	4.	Contractor to check and verify on site and report any errors o	
56 57	Dead Acer saccharum	Dead Sugar Maple	47.0 92.0	4.70 9.20	D G	Owner Owner		Remove Conflict	5.	Contractor is responsible for all	
58	Dead Dead	Dead Dead	52.0	5.20	D	Owner	Fallen Butternut - see BHE report	Remove		completion of works conveyed	
59	Acer saccharum	Sugar Maple	99.0	9.90	G	Neighbour		Conflict	6	specifications.	oordo-
60	Dead	Dead	76.0	7.60	D	Owner		Remove	6.	Carry out all construction in ac provincial and municipal stands	
61	Acer saccharum	Sugar Maple	40.0	4.00	G	Neighbour		PROTECT	7.	Contractor to coordinate all ac	cess a
62	Dead	Dead	48.0	4.80	D		Butternut - see BHE report	N/A		users of the site with appropria	
63 64	Acer saccharum Acer saccharum	Sugar Maple Sugar Maple	39.0 37.0	3.90 3.70	G	Owner Neighbour		Conflict Conflict		supervision throughout the corsatisfaction of the Consultant.	nstruct
65	Ulmus americana	White Elm	56.0	5.60	G	Owner		Conflict	8.	Contract Administrator is to ap	prove
66	Acer saccharum	Sugar Maple	65.0	6.50	Р	Neighbour	Twin trunk, split, rot	Conflict		mobilization.	
67	Acer saccharum	Sugar Maple	73.0	7.30	G	Owner		Conflict	9.	A Contractor flagman is require machinery or materials to the s	
68	Acer saccharum	Sugar Maple	20.0	2.00	G	Neighbour		PROTECT	10.	Contractor to coordinate and s	
69	Acer saccharum	Sugar Maple	34.0	3.40	G	Neighbour	la constant de la con	PROTECT		trades and contractors. Contra	actor is
70 71	Ulmus americana	White Elm	37.0	3.70	F F	Owner	bow in trunk,	PROTECT	11	Administrator of any schedule	
72	Acer saccharum Acer saccharum	Sugar Maple Sugar Maple	10.0 12.0	1.00 1.20	G	Owner Owner	intertwined with dead tree	PROTECT PROTECT	11.	Contractor responsible for the all materials as required to faci	
							Twin trunk, rot, dead tree fallen between			all items and materials identified	ed by t
73	Acer saccharum	Sugar Maple	41.0	4.10	Р	Owner	two trunks, split trunks	Remove		at a location on site as identified	
74	Acer saccharum	Sugar Maple	32.0	3.20	G	Neighbour	Miner enlissing	PROTECT		and remove from site any cont contaminated material at a lice	
75 76	Ulmus americana Acer saccharum	White Elm Sugar Maple	60.0 37.0	6.00 3.70	F G	Neighbour Owner	Minor splitting	PROTECT PROTECT	12.	Maintain site in a clean and ord	
77	Picea sp.	Sugar Maple Spruce	10.0	1.00	G	Owner		Conflict		construction; perform all work	in acco
<u> </u>		1	, , , , ,				I .			Occupational Health and Safet	ty Act.

TREE IMPACT ANALYSIS

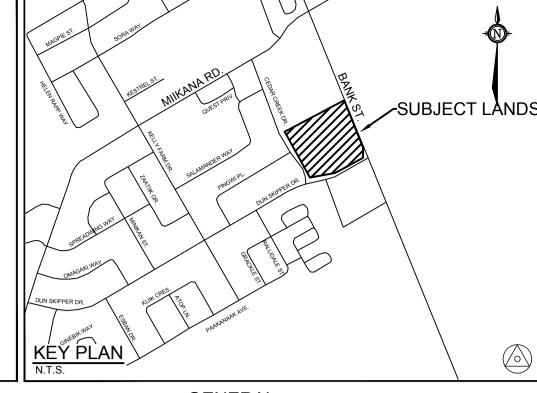
Using data collected during the tree inventory and assessment, a tree impact analysis was performed. Determination of each Tree's recommended action (i.e. Retain, Protect, Remove/Conflict) were based on several factors including each tree's current condition and

14. Contractor is responsible for all layout for construction 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

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.





NORTH



DETAIL SHEET # NOVATECH OR CITY
FG. L1.12 FTC — DETAIL NUMBER SEE LIST EG. L1, L2, ETC. FOR CODE

EXISTING TREE TO REMAIN. SYMBOL SIZE REFLECTS CRZ

EXISTING TREE TO REMOVE, SYMBOL SIZE REFLECTS CRZ

TREE PROTECTION FENCE EXISTING VEGETATION WITH

CONSTRUCTION

- 1. All general site information and conditions are compiled from Implement the following protection measures for retained trees, Consultant field notes and plans provided by the Owner and both on site and on adjacent sites, prior to any work activity, are supplied for information purposes only. It is the responsibility of the Contractor to verify the accuracy of all the in good condition for the duration of site works: information obtained from this plan. 2. Together with all Subcontractors involved, the Contractor is to 1.
- 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
- 3. Contractor to check and report any discrepancies before commencing work. No responsibility is borne by the Consultants for subsurface conditions.
- 4. 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 5. Do not attach any signs, notices, or posters to any tree.
- . 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
- 8. Contract Administrator is to approve access point(s) prior to mobilization.
- 9. A Contractor flagman is required to direct all deliveries of machinery or materials to the site.

- 10. Contractor to coordinate and schedule all work with other trades and contractors. Contractor is to notify Contract Administrator of any schedule difficulties.
- 11. 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. 12. 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. 13. Contractor is responsible to take all necessary measures to control dust on the project site and to the satisfaction of the
- Contract Administrator.
- 15. Contractor is to protect all iron bars. Replace any disturbed bars by Owner at the Contractor expense.
- 16. The Contractor is to notify the Contract Administrator upon
- completion of the required works to schedule an inspection for acceptance.

GENERAL

- 1. 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.
- 2. 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.
- 3. It is essential to use the plans and details in conjunction with the specifications and notes. 4. Do not scale drawings. Work to dimensions only.
- 5. Protect all existing and retained vegetation for the duration of construction according to the contract details and specifications.
- 6. 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.

TREE PROTECTION

including tree removal. Maintain tree protection fence in place and

- 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.).
- 2. 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 3. 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. 4. Do not place any material or equipment within 2m of the CRZ of any tree, including outhouses.
- 6. Do not disturb, raise, or lower the existing grade within the CRZ without approval. 7. Only tunnel or bore when digging within the CRZ of a tree.
- machinery permitted. 8. Do not damage the root system, trunk, or branches, or any
- 9. Do not extend hard surface or significantly change
- landscaping 10. Ensure that exhaust fumes from all equipment are directed
- away from any tree canopy. 11. 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. 13. 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 15. 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. 16. 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).

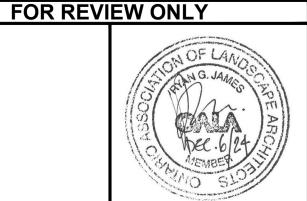
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE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

DAMAGE TO THEM.

Bank & Dun Developments Inc, c/o Paul Paglialunga 209 Wicksteed Avenue, Suite 30 Phone: (416) 335-0090

NOT FOR CONSTRUCTION

				SCALE	
					KEW
				CHECKED	
				1:400	KEW
				DRAWN	
					KEW
				CHECKED	
2.	ISSUED FOR COMPLETENESS COMMENTS	DEC 6/24	RGJ	1:400 - 0 4 8 12 16	ТВ
1.	ISSUED FOR SITE PLAN APPLICATION	OCT 24/24	RGJ		
No.	REVISION	DATE	BY		RGJ





Facsimile

Website

(613) 254-5867

www.novatech-eng.com

CITY OF OTTAWA 150 DUN SKIPPER

DRAWING NAME

TREE CONSERVATION PLAN

124107 REV#2 124107-TCR