EXISITNG TREE INVENTORY (CONDUCTED NOV 2023 & FEB 2024):

No.	Botanical Name	Common Name	DBH (cm)	CRZ (m)	Condition	Owner	Remarks	Recomm.
1	Acer saccharum	Sugar Maple	78.1	7.81	Poor	City	Lots of dead branches, very mixed results for setting of buds, weak annual incremental growth, Girdling roots visible and compromises evident in root flare, Lack of canopy on the north side. The girdling and binding roots are leading to the tree's decline, Slow annual increment, presence of major deadwood internal to the tree's crown and dieback at its periphery are some of the signs of decline. Decline will continue untill the tree becomes hazardous to be public.	PROTECT
2	Acer rubrum	Red Maple	65.2	6.52	Good	City	Good vigour and full canopy on all sides, lots of strong buds set. Good root flare around the trunk.	PROTECT

PROTECT: Protect trees as per contract details and specifications.

NOTE: The extent of the root system and the actual impact on the CRZ of existing trees will be confirmed at the site during the site plan application process.

SOURCE REFERENCE:
TOPOGRAPHIC PLAN OF SURVEY OF PART OF LOT "H" CONCESSION "D" (RIDEAU FRONT), PREPARED BY ANNIS, O-SULLIVAN, VOLLEBEKK LTD ON DECEMBER 15, 2017.
TOPOGRAPHIC INFORMATION:
HORIZONTAL DATUM: NAD 83 (ORIGINAL), MTM - ZONE 9
VERTICAL DATUM: CGVD28.78
1. ANNIS, O-SULLIVAN, VOLLEBEKK LTD'S TOPOGRAPHIC PLAN OF SURVEY
2. NOVATECH TOPOGRAPHIC SURVEY, APRIL 2024

SOIL VOLUME AVAILABILITY ESTIMATE:

Planting bed no.	Available Soil Area (sq m)	Available Soil Volume (cu m)	No. of trees proposed		Total No. of trees	Min. required Soil volume total (cu m)
			Small (20m³)	Medium (25m³)		
Planting bed 8	76	76	0	2	2	36.00
Planting bed 9	57	57	0	1	1	30.00
Planting bed 10	44	44	0	0	0	NA
Planting bed 11	44	44	0	1	1	30.00
Planting bed 12	55	55	1	1	2	33.00
Planting bed 13	85	85	0	3	3	54.00

Note: For all planting beds proposed, the available soil depth is considered to be 1m.

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:

1. 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 detail.
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.
5. Do not attach any signs, notices, or posters to any tree.
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. Hand work only where required within the CRZ; absolutely no machinery permitted.
8. Do not damage the root system, trunk, or branches, or any tree.
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. 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.
12. 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.
13. Set up a water and fertilizing program, if trees are being affected by site works, to the satisfaction of the Landscape Architect.
14. 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.
15. 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).
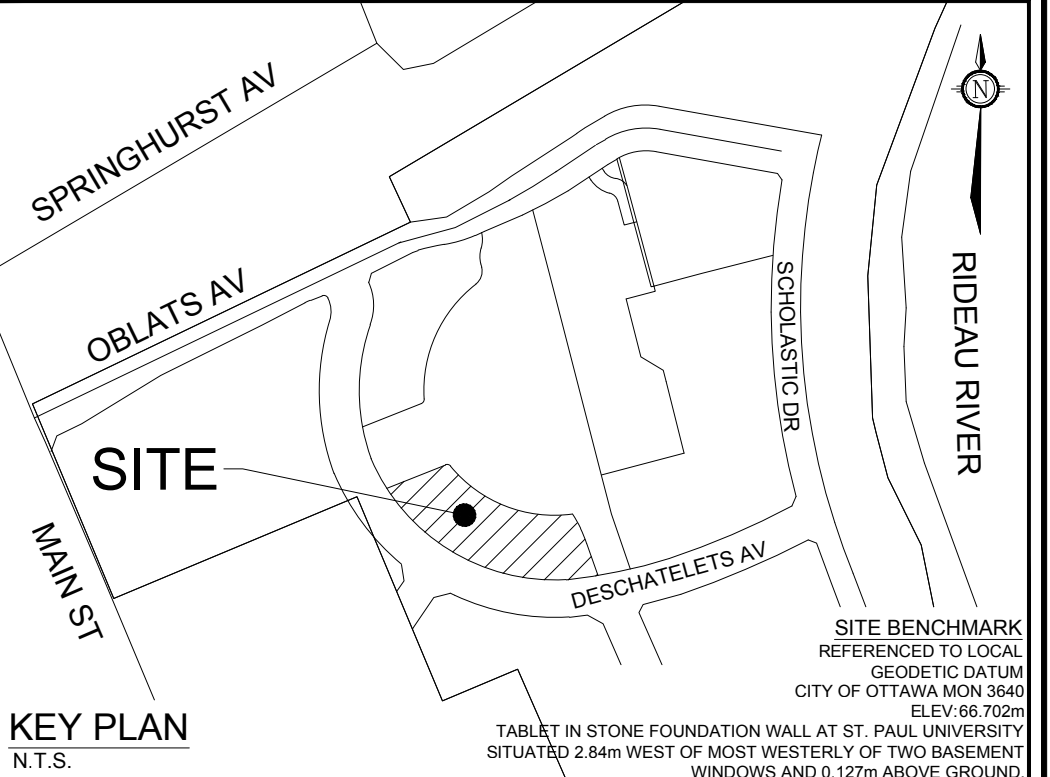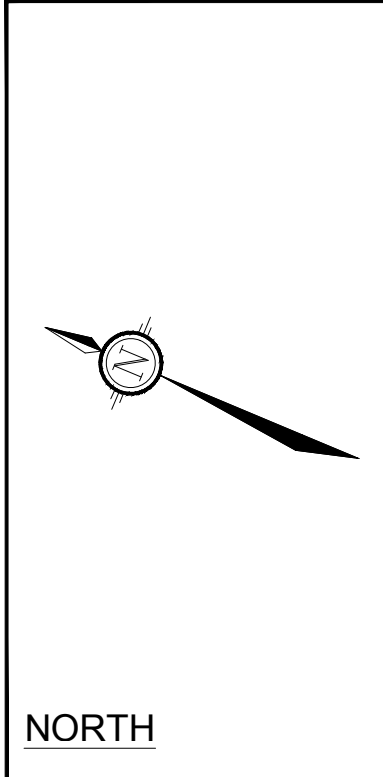
TREE PLANTING IN SENSITIVE CLAY

1. The landscape plans have been developed in accordance with the Geotechnical Investigation Report PG6948-1 prepared by Paterson Group, dated February 1, 2024 and the memo PG6948-MEMO.01 prepared by Paterson Group, issued by Scott S. Dennis, P.Eng on April 29, 2024, that confirms the categories and locations of clay soils.
2. In this case tree planting is restricted by sensitive clay.
3. The following City of Ottawa clay soils guideline applies: Guidelines for Tree Planting in Sensitive Marine Clay Soils-2017.
4. The soil volumes provided are sufficient for a reasonable chance of tree survival. Unless otherwise noted, all new trees on City property meet the minimum soil volume requirements of the following, based on a depth of 1.5m below finished grade, and subtracting the volume of utility trenches.
   a. Small tree (mature height up to 7.5m) - 25m³ minimum soil volume provided.
   b. Medium tree (mature height 7.5-14m) - 30m³ minimum soil volume provided.
   Where trees share a continuous greenspace:
   c. Two (2) small trees - 15m³ minimum soil volume provided per tree.
   d. Two (2) medium trees - 18m³ minimum soil volume provided per tree.

STREETSCAPE

1. There are no trees proposed in the Block 28.
2. Adjacent to Block 28, there are 9 medium trees and 1 small tree proposed in the right of way, along Deschatelets Avenue.

LANDSCAPE LEGEND:

3-D1	DETAIL SHEET # EG. L1, L2, ETC.	NOVATECH OR CITY DETAIL NUMBER SEE LIST FOR CODE

PROPERTY LIMIT
BUILDING LINE
RETAINING WALL, REFER TO SITE PLAN
EXISTING TREES TO RETAIN
CRITICAL ROOT ZONE OF HERITAGE TREES
CRITICAL ROOT ZONE OF TREES IMPACTED BY DEVELOPMENT
PROPOSED TREE PROTECTION FENCE 1.8m Ht.
SHALLOW ROOT PRUNING, 2024 APPROX. DEPTH OF 300mm
PROPOSED DEEP ROOT PRUNING, 2025 APPROX. DEPTH OF 1000mm
STAMPED CONCRETE
STAMPED CONCRETE WITH CU SOIL & ROOT PATHS, REFER TO 114025-TPP1
ROOT PATHS, REFER TO 114025-TPP1
POURED CONCRETE TERRACE
RIVER STONE
PERENNIALS
ORNAMENTAL GRASSES
SOD
SHRUBS
PROPOSED DECIDUOUS TREES
DECIDUOUS TREES PROPOSED IN THE FORECOURT PARK BLOCK
OFF-SITE DECIDUOUS TREES
OFF-SITE CONCRETE
EXISTING STREETLIGHTS

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.

PLANTING

1. Plant material to be No. 1 Grade and is to comply with Canadian Standards for Nursery Stock (latest edition) published by the Canadian Nursery Landscape Association.
2. Use structurally sound plant material with strong fibrous root system free of disease, defects, and injuries. Use trees with straight trunks, well and characteristically branched for species. Obtain approval from consultant of plant material at source prior to digging. All trees and shrubs to be container grown, potted, W/B or B/B, as indicated on Plant List. Bare root plants are only acceptable for certain species and as approved by the Landscape Architect.
3. Plant material substitutions are not to be permitted without the written approval from the Consultant, with 48 hours notice, prior to shipping plant material.
4. Plant locations are schematic / approximate only. Contractor is to stake out locations on site for approval by the Landscape Architect prior to installation.
5. The illustrated number of plants shown in the Planting Plan supersedes the estimated number in the Plant List. Contractor to report any discrepancies to the Landscape Architect prior to installation. Contractor will assume full responsibility if the Landscape Architect is not notified.
6. Ensure trees are thoroughly watered following planting. Monitor material and ensure adequate moisture until acceptance.
7. In heavy clay or poorly drained soils, set root ball with root collar 75-100mm higher than finished grade.
8. Approved topsoil depths are as follows:
   a. Plant Beds - 450mm continuous depth. Applies to shrubs, perennials, vines, and groundcovers.
   b. Sod/ Seed Areas - 100mm depth.
   c. Reforestation - 300mm depth.
9. Sod to be No. 1 Kentucky Bluegrass Sod grown from minimum mixture of 3 Kentucky Bluegrass cultivars. Quality and source are to comply with Canadian Standards for Nursery Stock, Section 17, (latest edition) published by the Canadian Nursery Landscape Nursery Landscape Association.
10. Apply the following mineral fertilizer unless soil tests show other requirements:
   a. Plant Beds - (8-32-16), i.e. 8% Nitrogen, 32% Phosphorus, 16% Potash per manufacturer specifications.
   b. Sod Areas - (8-32-16), i.e. 8% Nitrogen, 32% Phosphorus, 16% Potash at a rate of 350kg/ha.
12. Where applicable, for any plant areas with a mix of species/ cultivars notes, Contractor is to cluster like plants in groups of 3-5 and evenly distribute these in the noted area.

CITY DETAILS

Related details from City of Ottawa Standard Tender Documents Volume No. 2 Standard Detail Drawings.

SC4. Typical Concrete Sidewalk in Boulevard
SC5. Sidewalk Construction Joints
SC7.1 Curb Return Entrances - Uncontrolled Intersections

NOVATECH DETAILS

Found on Sheet L3.

D1. Standard Deciduous Tree Planting
D2. Shrub and Perennial Planting
D3. Tree Protection Fence
D4. River Stone Detail

PROPOSED PLANT LIST- BLOCK 28

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND	SPACING	NATIVE/NON-NATIVE*	OWNER
Deciduous Street Trees (Medium) - ROW								
ARR	5	Acer rubrum 'Frank Jr'	Redpointe Red Maple	50mm Cal	WB	As Shown	C	City
COC	2	Celtis occidentalis 'Chicagoland'	Chicagoland Hackberry	50mm Cal	WB	As Shown	C	City
GBA	2	Ginkgo biloba 'Autumn Gold'	Autumn Gold Ginkgo	50mm Cal	WB	As Shown	E	City
Deciduous Trees (Small) - ROW								
MR	1	Malus 'Royalty'	Royalty Crabapple	50mm Cal	WB	As Shown	E	City
Coniferous Shrubs								
Txh	8	Taxus media 'Hicksii'	Hicks Yew	100cm Ht	BB	As Shown	E	Private
Deciduous Shrubs								
Am	10	Aronia melanocarpa	Black Chokeberry	60cm Ht	PT	As Shown	C	Private
Axl	98	Aronia x Low Scape Mound (UCONNAM165)	Low Scape Mound Chokeberry	40cm Ht	PT	50cm O.C	C	Private
Car	27	Clethra alnifolia 'Ruby Spice'	Ruby Spice Summersweet	50cm Ht	PT	80cm O.C	C	Private
Cwb	32	Cornus sanguinea 'Winter Beauty'	Winter Beauty Dogwood	60cm Ht	PT	120cm O.C	E	Private
Hqf	55	Hydrangea paniculata 'Tiny Quick Fire' (SMHPSB)	Tiny Quick Fire Hydrangea	40cm Ht	PT	70cm O.C	E	Private
Perennials								
cvm	120	Coreopsis verticillata 'Moonbeam'	Moonbeam Threadleaf Coreopsis	1g	PT	45cm O.C	E	Private
gms	146	Geranium macrorrhizum 'Spessart'	Spessart Cranesbill	1g	PT	45cm O.C	E	Private
gpr	208	Geranium 'Rozanne'	Rozanne Cranesbill	1g	PT	60cm O.C	E	Private
gtb	55	Gillenia trifoliata	Bow man's Root	1g	PT	60cm O.C	C	Private
hgs	96	Hemerocallis 'Gentle Shepherd'	Gentle Shepherd Daylily	1g	PT	45cm O.C	E	Private
hhr	100	Hemerocallis 'Happy Returns'	Happy Returns Daylily	1g	PT	30cm O.C	E	Private
hpmg	52	Hemerocallis 'Peach Magnolia'	Peach Magnolia Daylily	1g	PT	45cm O.C	E	Private
Ornamental Grasses								
pvn	125	Panicum virgatum 'Northwind'	Northwind Switch Grass	1g	PT	70cm O.C	C	Private

Note: (L)ocal region, (C)ultivar of local region plant, (P)rovincial, (E)xotic or non-native

PARK BLOCK 30

REFER TO DRAWING BLOCK 30-TCR FOR TREE PROTECTION REQUIREMENTS

Existing Tree no. 1 CRZ Area = 191.6 sqm Anticipated Impact on CRZ = 45 sqm (23.48%)

Existing Tree no. 2 CRZ Area = 133.55 sqm Anticipated Impact on CRZ = 33.22 sqm (25 %)

EXISTING TREE 1
EXISTING TREE 2

LOCATION OF ROOT PATH IS APPROXIMATE, REFER TO DRAWING 114025-TPP1 FOR MORE DETAILS

EXISTING SL, TO BE REMOVED.

EXISTING BLANK SERVICES, TO BE ABANDONED.

Planting Bed 13 84.80 sqm
Planting Bed 12 55 sqm
Planting Bed 11 44 sqm
Planting Bed 10 44 sqm
Planting Bed 9 56.6 sqm
Planting Bed 8 76 sqm

BLOCK 28
BLOCK 59
BLOCK 52
BLOCK 27 GRANDE ALLÉE
avenue Deschâtelets Avenue
rue Hazel Street

No.	REVISION	DATE	BY
8.	RE-ISSUED FOR SITE PLAN APPROVAL	MAY 22/25	RGJ
7.	REVISED PER SITE PLAN UPDATES	APR 29/25	RGJ
6.	REVISED PER CITY COMMENTS	NOV 29/24	RGJ
5.	REVISED PER CITY COMMENTS	OCT 17/24	RGJ
4.	ISSUED FOR SITE PLAN APPROVAL	AUG 14/24	RGJ
3.	ISSUED FOR COORDINATION	AUG 8/24	TCB
2.	ISSUED FOR COORDINATION	JULY 4/24	KW
1.	ISSUED FOR DISCUSSION	APR 26/24	RGJ

SCALE 1:250

DESIGN TCB
CHECKED RGJ
DRAWN TCB
CHECKED KW
APPROVED RGJ

ASSOCIATION OF LANDSCAPE ARCHITECTS ONTARIO
SHAWN JAMES BOYD MEMBER MAY 22/25

IFS ASSOCIATES
Andrew K. Boyd, R.P.F.
Consulting Urban Forester
P.O. Box 13593, Kanata,
Ontario, Canada K2K 1X6
Telephone (613) 838-5717
Website www.ifsassociate.ca

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

LOCATION
CITY OF OTTAWA
GREYSTONE VILLAGE, BLOCK 28 (4M-1596)

DRAWING NAME
355 DESCHÂTELETS AVE.
LANDSCAPE PLAN AND
TREE CONSERVATION PLAN

PROJECT No. 114025-00
REV REV # 8
DRAWING No. 114025-FT-L2

D07-12-24-0130
#19191

KEY PLAN
SITE BENCHMARK
REFERENCED TO LOCAL GEODETIC DATUM
CITY OF OTTAWA MON 3640
ELEV. 66.702m
TABLET IN STONE FOUNDATION WALL AT ST. PAUL BASEMENT SITUATED 2.84m WEST OF MOST WESTERLY OF TWO BASEMENT WINDOWS AND 0.127m ABOVE GROUND.

SPRINGHURST AV
OBLATS AV
SCHOLASTIC DR
MAIN ST
RIDEAU RIVER
DESCHÂTELETS AV
SITE

NORTH