DATE

REVISION

REVISION

DATE

DAMAGE TO THEM.

### 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
- 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
- Do not attach any signs, notices, or posters to any tree. Do not disturb, raise, or lower the existing grade within the
- 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
- Do not extend hard surface or significantly change
- 10. Ensure that exhaust fumes from all equipment are directed away from any tree canopy
- 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,
- 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
- 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
- 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

- 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. In this case tree planting is restricted by sensitive clay.
- 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
- a. Small tree (mature height up to 7.5m) 25m<sup>3</sup> minimum soil volume provided.
- b. Medium tree (mature height 7.5-14m) 30m<sup>3</sup> minimum soil volume provided. Where trees share a continuous greenspace
- c. Two (2) small trees 15m<sup>3</sup> minimum soil volume provided
- d. Two (2) medium trees 18m<sup>3</sup> minimum soil volume provided per tree.

## STREETSCAPE

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

## DETAIL SHEET # NOVATECH OR CITY - DETAIL NUMBER SEE LIST EG. L<u>1</u>, L<u>2</u>, ETC. 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 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

NORTH

LANDSCAPE LEGEND:

- PROPOSED DECIDUOUS TREES
- DECIDUOUS TREES PROPOSED IN THE FORECOURT PARK BLOCK
  - OFF-SITE DECIDUOUS TREES

OFF-SITE CONCRETE

EXISTING STREETLIGHTS

Suite 200, 240 Michael Cowpland Drive

Ottawa, Ontario, Canada K2M 1P6

Telephone

Facsimile

Website

(613) 254-9643

(613) 254-5867

www.novatech-eng.com

# PROPOSED PLANT LIST- BLOCK 28

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND	SPACING	NATIVE/ NON-NATIVE*	OWNE
Deciduo	us Str	eet Trees (Medium) - ROW						
ARR	5	Acer rubrum 'FrankJr'	Redpointe Red Maple	50mm Cal	WB	As Show n	С	City
COC	2	Celtis occidentalis 'Chicagoland'	Chicagoland Hackberry	50mm Cal	WB	As Show n	С	City
GBA	2	Ginkgo biloba 'Autumn Gold'	Autumn Gold Ginkgo	50mm Cal	WB	As Show n	E	City
Deciduo	us Tre	ees (Small) - ROW						
MR	1	Malus 'Royalty'	Royalty Crabapple	50mm Cal	WB	As Show n	E	City
Conifer	ous Sh	nrubs						
Txh	8	Taxus media 'Hicksii'	Hicks Yew	100cm Ht	BB	As Show n	E	Priva
Deciduo	us Sh	rubs						
Am	10	Aronia melanocarpa	Black Chokeberry	60cmHt	PT	As Show n	С	Priva
AxI	98	Aronia x Low Scape Mound (UCONNAM165)	Low Scape Mound Chokeberry	40cmHt	PT	50cm O.C	С	Priva
Car	27	Clethra alnifolia 'Ruby Spice'	Ruby Spice Summersweet	50cmHt	PT	80cm O.C	С	Priva
Cw b	32	Cornus sanguinea 'Winter Beauty'	Winter Beauty Dogwood	60cmHt	PT	120cm O.C	E	Priva
Hqf	55	Hydrangea paninculata 'Tiny Quick Fire' (SMNHPSB)	Tiny Quick Fire Hydrangea	40 cm Ht	PT	70cm O.C	E	Priva
Perenn	ials							
cvm	120	Coreopsis verticillata 'Moonbeam'	Moonbeam Threadleaf Coreopsis	1g	PT	45cm O.C	E	Priva
gms	146	Geranium macrorrhizum 'Spessart'	Spessart Cranesbill	1g	PT	45cm O.C	E	Priva
gpr	208	Geranium 'Rozanne'	Rozanne Cranesbill	1g	PT	45cm O.C	E	Priva
gtb	55	Gillenia trifoliata	Bow man's Root	1g	PT	60cm O.C	L	Priva
hgs	98	Hemerocallis 'Gentle Shepherd'	Gentle Shepherd Daylily	1g	PT	45cm O.C	E	Priva
hhr	100	Hemerocallis 'Happy Returns'	Happy Returns Daylily	1g	PT	30cm O.C	E	Priva
hpmg	52	Hemerocallis 'Peach Magnolia'	Peach Magnolia Daylily	1g	PT	45cm O.C	E	Priva
Orname	ntal G	rasses						
pvn	125	Panicum virgatum 'Northwind'	Northw ind Sw itch Grass	1g	PT	70cm O.C	С	Priva

ASSOCIATES

(613) 838-5717

www.ifsassociate.ca

Andrew K. Boyd, R.P.F.

P.O. Box 13593, Kanata,

Ontario, Canada K2K 1X6

Consulting Urban Forester

## **GENERAL**

**KEY PLAN** 

- 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

TABLET IN STONE FOUNDATION WALL AT ST. PAUL UNIVERSIT

SITUATED 2.84m WEST OF MOST WESTERLY OF TWO BASEMEN

SITE BENCHMAR

GEODETIC DATUM

REFERENCED TO LOC

CITY OF OTTAWA MON 364

- 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 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
- 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.
- 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
- 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.

Typical Concrete Sidewalk in Boulevard Sidewalk Construction Joints 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

The elements on this plan illustrate the design intent and general constructability of the proposed landscape which will support the associated development. This is to demonstrate how the canopy cover, urban design, health, and climate change objectives of the Official Plan will be met through tree planting and site design. This drawing is for City review only and is not intended for construction. Final detailed design and construction documentation is to be provided with certified 'Issued for Construction' drawings and specifications prior to construction.

DRAWING NAME

LOCATION

**CITY of OTTAWA** GREYSTONE VILLAGE, BLOCK 28 (4M-1596)

355 DESCHÂTELETS AVE. LANDSCAPE PLAN AND TREE CONSERVATION PLAN

114025-00 REV # 9 114025-FT-L2

#19191