

CITY DETAILS

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

- F7. Tree Preservation Protection Fence
- SC4. Typical Concrete Sidewalk in Boulevard
- SC5. Sidewalk Construction Joints

NOVATECH DETAILS

Found on Sheet L2.

- D1. Standard Deciduous Tree Planting
- D2. Shrub and Perennial Planting
- D3. Reforestation
- D4. Bike Layout

NORTH

KEY PLAN
N.T.S.

LEGEND

- PROPERTY LIMIT
- ▨ PROPOSED CONCRETE
- PROPOSED DECIDUOUS TREE
- ⊗ PROPOSED SHRUBS
- ⊕ PROPOSED SHRUB REFORESTATION
- KEY # SPECIES (SEE PLANT LIST)
- ## QUANTITY
- ▬ RETAINING WALL - REFER TO CIVIL DRAWINGS
- ▨ EXISTING TREES TO BE PRESERVED
- ▨ EXISTING TREES TO BE REMOVED
- TREE PROTECTION FENCE

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.

PLANTING

- 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.
- 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.
- Plant material substitutions are not permitted without the written approval from the Consultant, with 48 hours notice, prior to shipping plant material.
- Plant locations are schematic/ approximate only. Contractor is to stake out locations on site for approval by the Landscape Architect prior to installation.
- 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.
- Ensure trees are thoroughly watered following planting. Monitor material and ensure adequate moisture until acceptance.
- In heavy clay or poorly drained soils, set root ball with root collar 75-100mm higher than finished grade.
- Approved topsoil depths are as follows:
 - Plant Beds - 450mm continuous depth. Applies to shrubs, perennials, vines, and groundcovers.
 - Sod/ Seed Areas - 100mm depth.
 - Reforestation - 300mm depth.
- Apply the following mineral fertilizer unless soil tests show other requirements:
 - Plant Beds - (8-32-16), i.e. 8% Nitrogen, 32% Phosphorus, 16% Potash per manufacturer specifications.
 - Sod Areas - (8-32-16), i.e. 8% Nitrogen, 32% Phosphorus, 16% Potash at a rate of 350kg/ha.
- 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.

NOTE: See sheet 119123-L2 for Tree Protection Notes

SEED MIX AND APPLICATION

For areas steeper than 3:1, refer to grading plan for slope stabilization measure details.

In addition to the specified seed mixes, all applications are to include a nurse crop as noted.

NURSE CROP
Annual Ryegrass
Seeding Rate: 25kg/hectare

SEED MIX A
FUTURA BOULEVARD SEED MIX BY DLF PICKSEED
Seeding Rate: 150kg/hectare

SEED MIX B
STEEP SLOPE SEED MIX BY DLF PICKSEED
Seeding Rate: 34kg/hectare

TREE PLANTING IN SENSITIVE CLAY

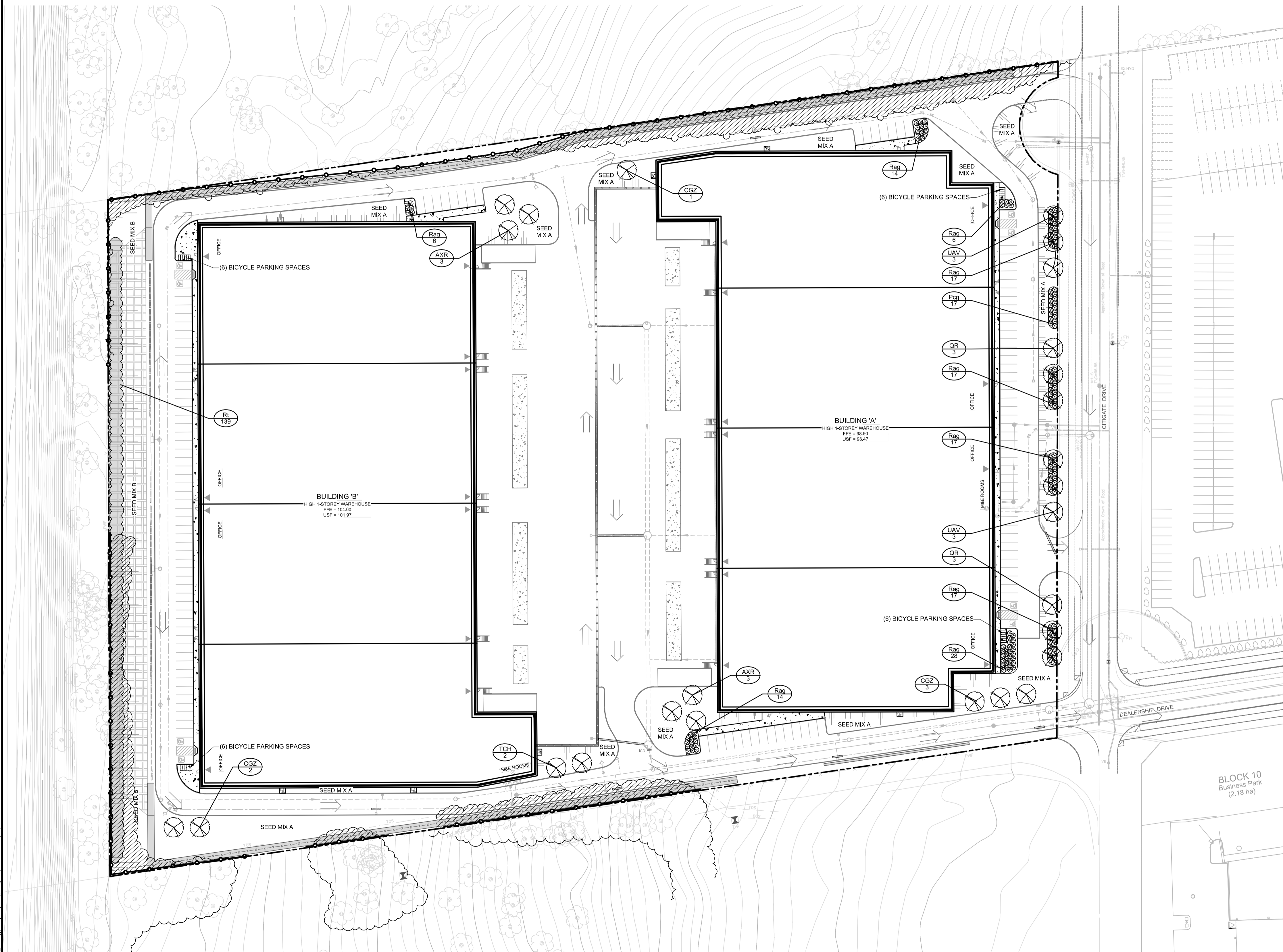
- The landscape plans have been developed in accordance with the Geotechnical Report: Geotechnical Investigation prepared by Paterson Group, January 11, 2023. Refer to Section 6.8 Landscape Considerations.
- The following City of Ottawa clay soils guideline applies: Guidelines for Tree Planting in Sensitive Marine Clay Soils (2017).
- 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.
 - Small tree (mature height up to 7.5m) - 25m³/ minimum soil volume provided.
 - Medium tree (mature height 7.5-14m) - 30m³/ minimum soil volume provided.

Where trees share a continuous greenspace:

- Two (2) small trees - 15m³/ minimum soil volume provided per tree.
- Two (2) medium trees - 18m³/ minimum soil volume provided per tree.

PLANT LIST

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND	SPACING
Deciduous Trees - Large Mature Size (Greater than 14m)						
QR	6	<i>Quercus rubra</i>	Red Oak	50mm Cal	WB	As Shown
UAV	6	<i>Ulmus americana 'Valley Forge'</i>	Valley Forge Elm	50mm Cal	WB	As Shown
Deciduous Trees - Small Mature Size (Under 6m Height)						
AXR	6	<i>Amelanchier x grandiflora 'Robin Hill'</i>	Robin Hill Serviceberry	50mm Cal	WB	As Shown
CCZ	6	<i>Crataegus crus-galli 'Cruzam'</i>	Crusader Hawthorn	50mm Cal	WB	As Shown
TCH	2	<i>Tilia cordata 'Halka'</i>	Summer Sprite Linden	50mm Cal	WB	As Shown
Deciduous Shrubs						
Pcg	17	<i>Physocarpus opulifolius 'Centre Glow'</i>	Centre Glow Ninebark	60cm Ht	PT	As Shown
Rag	123	<i>Rhus aromatica 'Gro-Low'</i>	Gro-Low Fragrant Sumac	40cm Ht	PT	As Shown
Rt	139	<i>Rhus typhina</i>	Staghorn Sumac	60cm Ht	PT	2500mm O.C.



NOTE: THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, 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.

NOT FOR CONSTRUCTION

No.	REVISION	DATE	BY
1.	ISSUED FOR SITE PLAN	MAY 4/23	RGJ

SCALE

1:750

0 10 20 30

DESIGN	MJT
CHECKED	RGJ
DRAWN	MJT
CHECKED	RGJ
APPROVED	MJT

FOR REVIEW ONLY

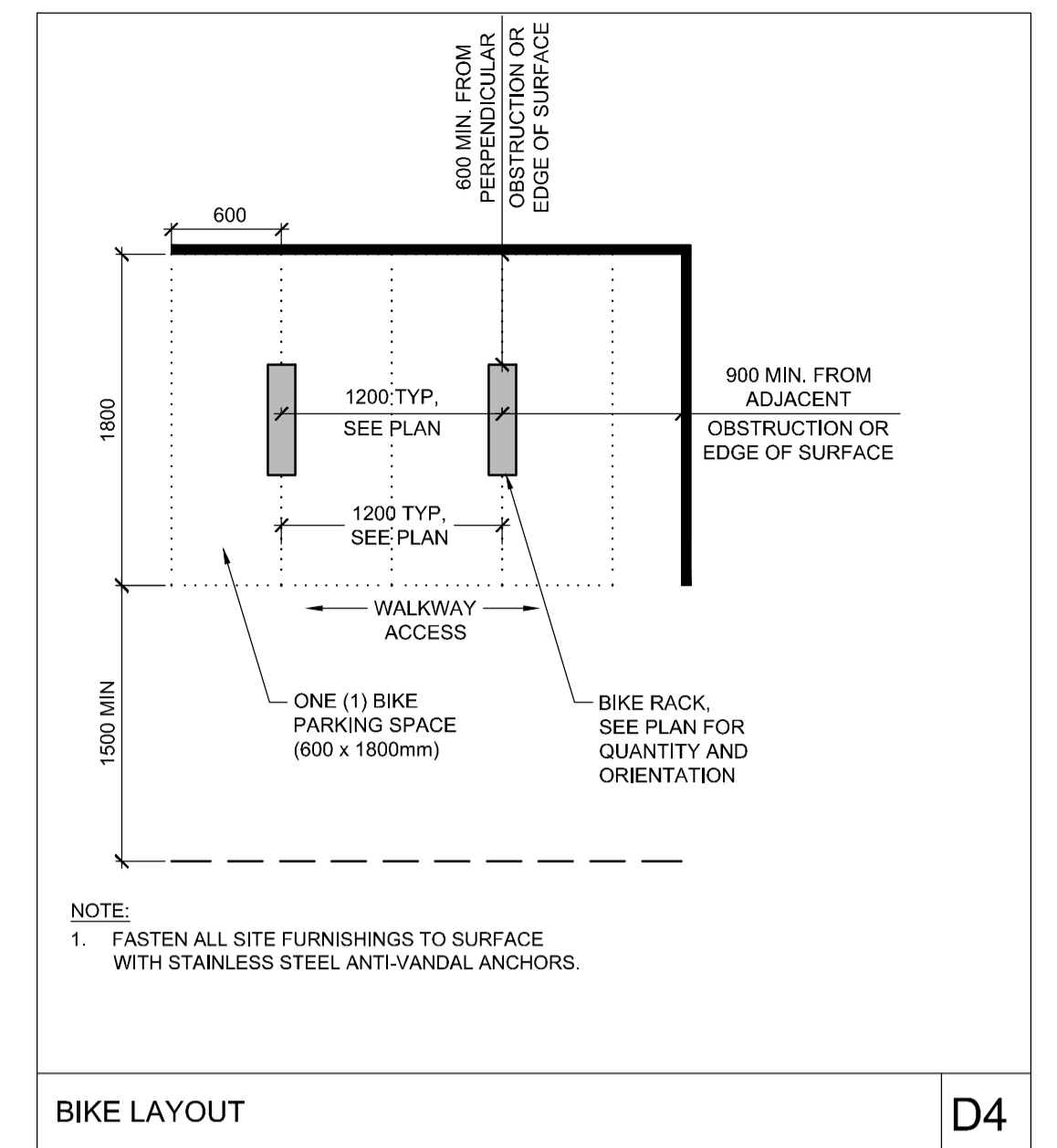
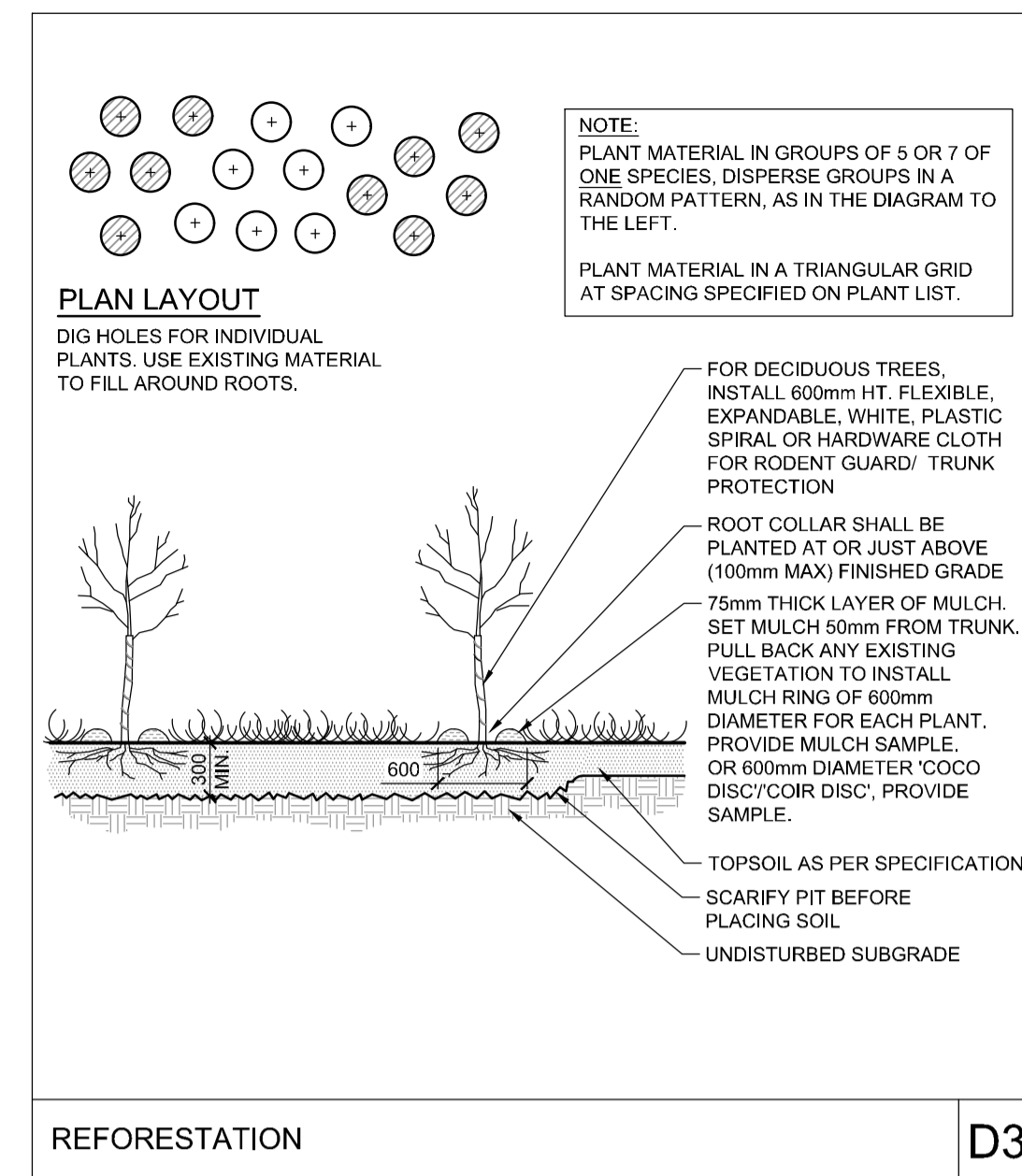
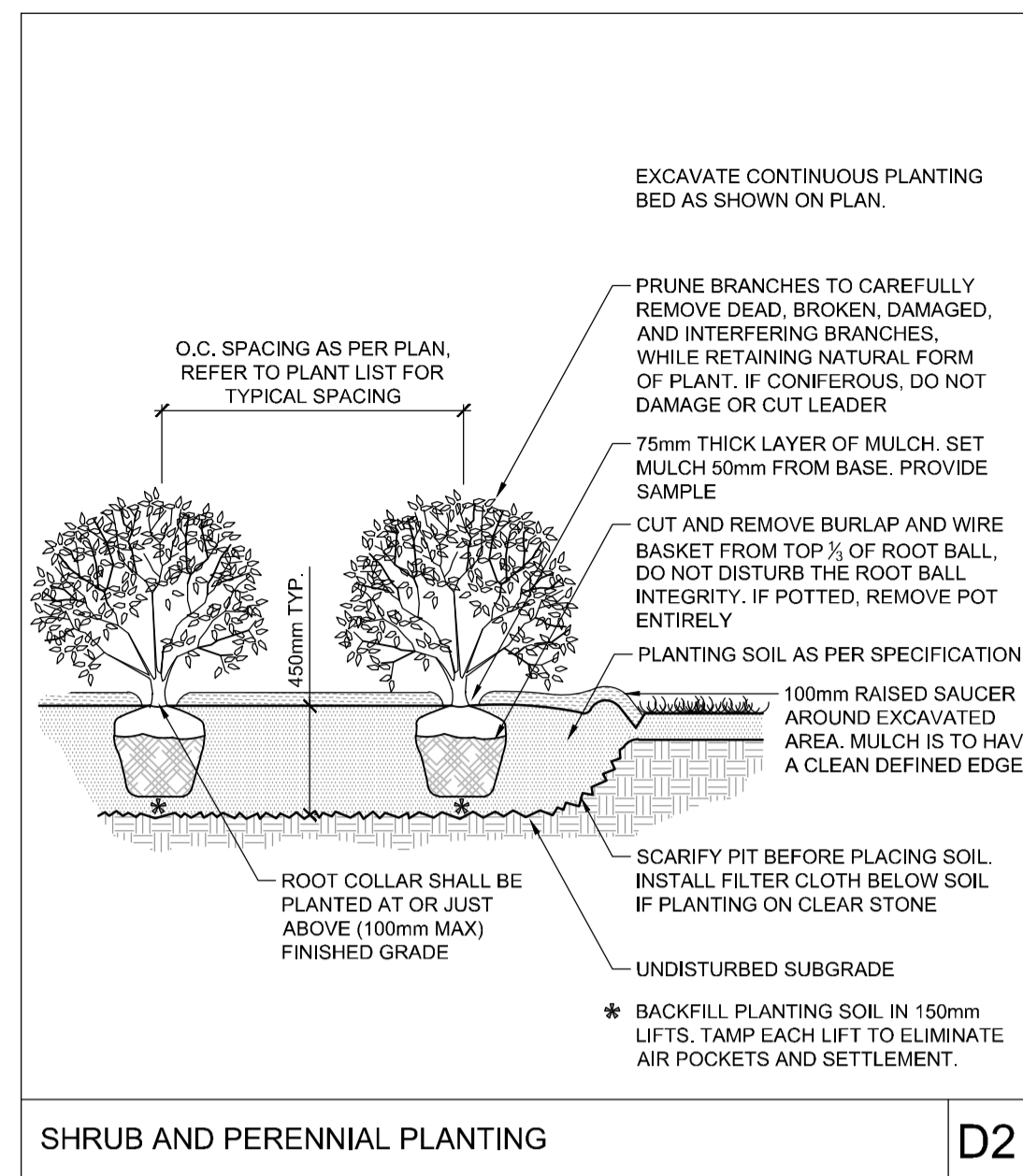
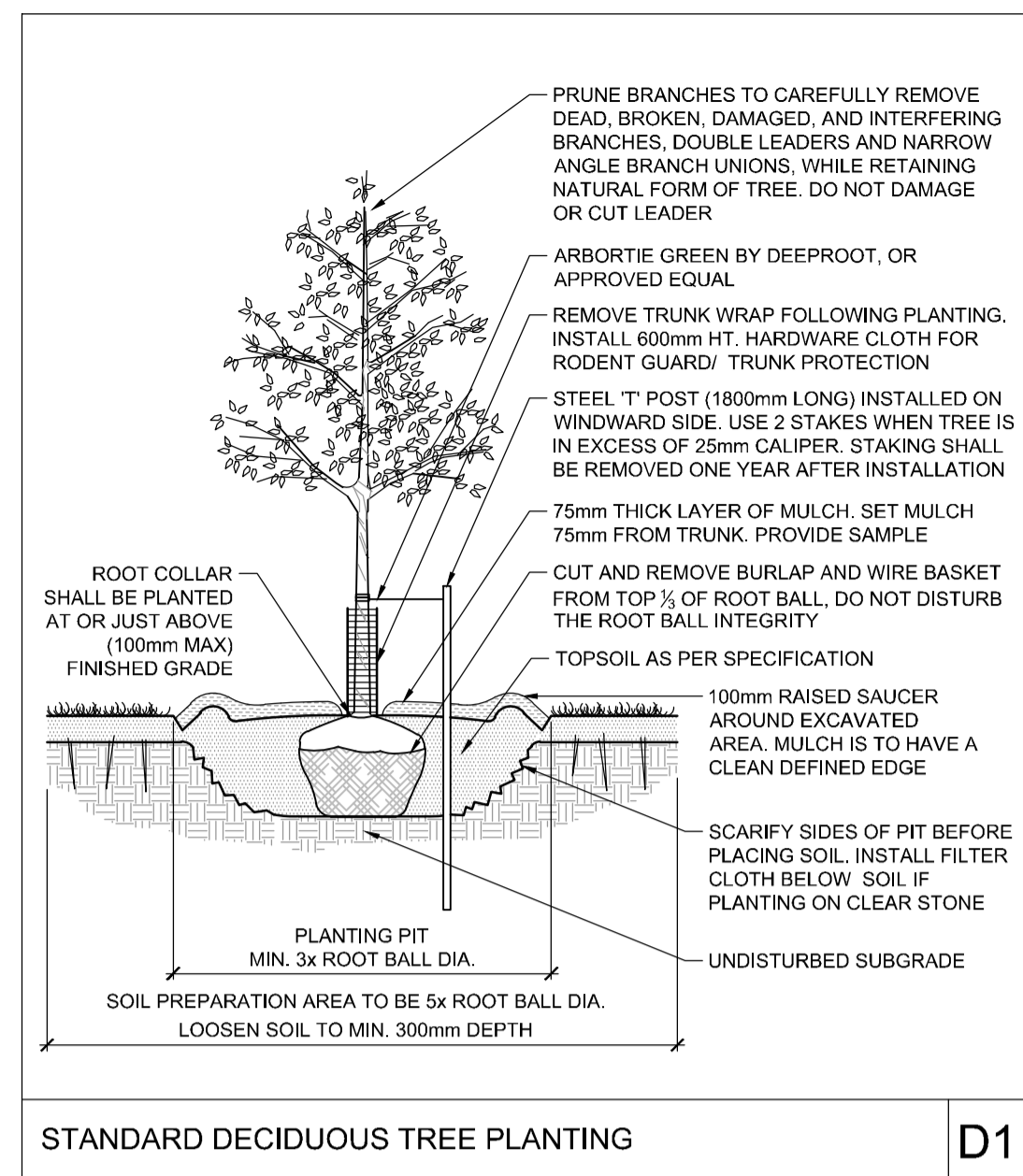
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LOCATION
CITY OF OTTAWA
575 DEALERSHIP DRIVE

DRAWING NAME
LANDSCAPE PLAN

PROJECT NO. 119123-00
REV. REV #1
DRAWING NO. 119123-L1

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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 no 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).

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575 DEALERSHIP DRIVE		REV # 1	
DRAWING NAME		DRAWING No.	
LANDSCAPE DETAILS		119123-L2	